INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

1-ED-1

EVIDENCE REFERENCE:

Reference: Exhibit 1, Tab 2, Schedule 3, p. 17

QUESTION(S):

a) Please provide a timeline for Hydro Ottawa's plans relating to a DSO model.

RESPONSE(S):

Hydro Ottawa's plans for a DSO model are directly linked to ongoing regulatory and policy initiatives in Ontario, specifically the Ontario Energy Boards' DSO Capabilities[1] consultation.

Since this consultation is still in progress, Hydro Ottawa does not currently have a timeline for DSO model plans. The OEB's findings are expected to establish a policy framework and set clear expectations for distributors. This framework will, in turn, allow Hydro Ottawa to create a more concrete timeline for developing Hydro Ottawa's DSO model.

[1] Ontario Energy Board. *Distribution System Operator Capabilities*, ED-2025-00660.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

1-ED-2

EVIDENCE REFERENCE:

Reference: Exhibit 1, Tab 3, Schedule 1

QUESTION(S):

a) Please describe how the proposed customer IR framework addresses revenue from new customers and costs to connect new customers. Please describe whether and how rates are set based on forecast revenues and costs relating to new customers and whether any true-ups are proposed. Please include a table indicating whether Hydro Ottawa bears the risks that fewer new customers than forecast connect (resulting in less revenue) and that greater new customers than forecast connect (resulting in greater connection costs).

RESPONSE(S):

Please note that the question is not clear and Hydro Ottawa has interpreted the question as a request to detail any unique mechanism or approaches in place that relate specifically to new customer connections.

Please see Schedule 3-1-1 - Revenue Load and Customer Forecast for Hydro Ottawa customer count which includes new connections. Hydro Ottawa proposes to use the five year revenue load forecast to set rates for the 2026-2030 period. Hydro Ottawa would bear the risk over the 2026-2030 rate period of forecasted customers if less than estimated net new customer counts materialized and would earn more revenue if more than estimated net new customers materialized. It is unclear what is intended to be part of a table, as a result, one has not been produced.

As discussed in Schedule 1-3-1 - Rate Setting Framework, Hydro Ottawa is requesting to maintain its Capital Additions Variance accounts with modifications. This is outlined in section 3.5.3.1 Asymmetrical Sub-Accounts of the same Schedule. This account includes a true-up for costs related to new residential connections and capacity upgrades associated with housing developments. Please also refer to the response to interrogatory 9-SEC-88.

In addition, Hydro Ottawa has requested a symmetrical account to capture revenue variances associated with differences in volume and timing of large loads adjusted into the load forecast noted above. This account would be capturing differences as a result of new load rather than new customer connections.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

1-ED-3

EVIDENCE REFERENCE:

Reference: Exhibit 1, Tab 3, Schedule 1, p. 31

QUESTION(S):

a) Please describe how Hydro Ottawa will address situations where, mid-term, it is able to defer or avoid a capital expenditure with a NWS that involves an alternative capital investment, increased operational costs (e.g. payments to an aggregator), or a combination of both. Please provide examples with sample figures to explain the impacts.

b) Please discuss a mechanism to reallocate costs between capital and operational budgets as necessary to reflect an NWS that reduces capital costs but increases operational costs.

c) Please provide the criteria for NWS that can be implemented mid-term without seeking OEB approval. Please also provide the criteria or checklist that Hydro Ottawa believes would trigger the need for OEB approval. Please explain the response.

RESPONSE(S):

a) Please refer to the response to interrogatory 1-Staff-18.

b) Please refer to part a) of the response to interrogatory 1-Staff-18.

c) Please refer to part a) of the response to interrogatory 1-Staff-18.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

1-ED-4

EVIDENCE REFERENCE:

Reference: Exhibit 1, Tab 3, Schedule 2 (custom scorecard)

QUESTION(S):

a) Will the performance metric for DER capacity be based nameplate capacity or export capacity?
b) Is Hydro Ottawa willing to report on the nameplate capacity, export capacity, and the capacity of DERs that can be controlled by Hydro Ottawa in each rate application?
c) Hydro Ottawa proposes to monitor scope 2 emissions. Please provide a forecast of scope 2 emissions over the rate term. Please provide an updated version that attributes the generation from all DERs located in Ottawa to Ottawa's electricity consumption (such that renewable DER expansion in Ottawa will reduce scope 2 emissions). Please also provide a table showing the GHGs avoided by incremental DERs forecast to be constructed in the Ottawa area over the rate term.
d) Please provide a forecast of the MWh demand for power over the rate term and the MWh produced through renewable DERs in the Ottawa area over the rate term.

RESPONSE(S):

a) The performance metric for DER capacity will be based on the nameplate capacity of the generator.

b) Hydro Ottawa is advancing its systems for better DER management through its Grid Modernization Strategy as outlined in Section 3.4.2 of Schedule 2-5-4 - Asset Management Process, so that the utility can report on nameplate capacity, export capacity, and the capacity of

DERs that can be controlled. However, at this time the information is not available.

c) As described in Section 2.1.18 of Schedule 1-3-2 - Proposed Annual Reporting - 2026-2030, Scope 2 Greenhouse Gas Emissions are those over which the utility has limited control. *Canadian Sustainability Disclosure Standard 2: Climate-related Disclosures* defines "Scope 2" as follows: "Indirect greenhouse gas emissions from the generation of purchased or acquired electricity, steam, heating or cooling consumed by an entity. Purchased and acquired electricity is electricity that is purchased or otherwise brought into an entity's boundary. Scope 2 greenhouse gas emissions physically occur at the facility where electricity is generated." This includes the electricity consumed in Hydro Ottawa's facilities.

For the period of 2025-2030, the IESO has noted that the emissions profile of Ontario's bulk grid is set to rise, as natural gas generation helps to address supply shortfalls in the midst of the refurbishments of the province's nuclear generating stations.[1] The ability of all electricity distributors in Ontario, including Hydro Ottawa, to manage and limit their Scope 2 GHG emissions effectively will be significantly constrained during this period. Despite these broader grid-level challenges, Hydro Ottawa is actively exploring avenues to reduce its own emissions where feasible, such as through operational efficiencies and internal initiatives. However, Hydro Ottawa has committed to monitor, rather than reduce overall emissions for this reason. Likewise, a forecast for Scope 2 emissions over which the utility has limited control has not been prepared due to the lack of control the utility has in this respect.

As proposed in Hydro Ottawa's Custom Performance Scorecard (see Table 1 in Section 2 of Schedule 1-3-2), the utility's Scope 2 emissions will be monitored between 2026 and 2030.

With respect to the other information requested in this interrogatory (i.e. "a forecast attributing DER generation in Ottawa to Ottawa's electricity consumption [such that renewable DER expansion in Ottawa will reduce scope 2 emissions])", Hydro Ottawa cannot directly attribute the

[1] IESO, Ontario's Energy Future: Spring 2024 Update, page 4. Available: https://www.ieso.ca/-/media/Files/IESO/Document-Library/Decarbonization-Hub/IESO-Ontarios-Energy-Future-Spring-2024.pdf

generation from customer-owned DERs to its own Scope 2 emissions, and therefore is not able to provide that data. Hydro Ottawa is likewise not able to provide a table showing the GHGs avoided by incremental DERs forecast to be constructed in the Ottawa area over the rate term. Although Hydro Ottawa will have existing nameplate capacity of connected customer-owned generation and storage DERs, actual hour-by-hour performance data for these DERs may not be available. For example, when customer DERs are connected to Hydro Ottawa via a net-metering arrangement, the utility only has visibility to the excess generation pushed back to its grid, not to the total grid electricity offset. Similarly, as the GHG intensity of the provincial grid fluctuates throughout any given day, due to generation sources used, detailed DER usage data would be required to provide any estimate of GHG emissions reduction.

d) Please refer to Table 2 - Revenue Load Forecast Summary in Section 3 of Schedule 1-2-1 - Application Summary for the forecast MWh demand for power over the rate term. Hydro Ottawa does not forecast DER production in MWh. See Figure 112 in Section 9.3.2 of Schedule 2-5-4 - Asset Management Process for the DER forecast in MW over the rate term.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

1-ED-5

EVIDENCE REFERENCE:

Reference: Exhibit 1, Tab 3, Schedule 3, Attachment C, p. 23

QUESTION(S):

a) Hydro Ottawa indicates that all micro-generation projects "were connected within the prescribed time frame or at an agreed-upon date with the customer." Please indicate for each year the percent connected (i) within the prescribed time frame and (b) an agreed-upon date. For the five most recent projects connected on an agreed-upon date, please provide the correspondence in which the customer agreed upon an alternative date (with personal information redacted).
b) Please provide the same information for other DER categories (small, mid-sized, large).

RESPONSE(S):

a) Hydro Ottawa cannot provide the requested percentage breakdown as its system records do not track the information in a manner that allows this percentage to be easily calculated. The records track whether a connection was completed by the scheduled date, which may be the initial prescribed timeline or an agreed-upon date.

As requested, Hydro Ottawa reviewed the last five micro-embedded generation connection requests that were outside of the 5 day timeframe, and confirmed that the alternative dates were agreed upon by the customers. Four of these requests were handled via telephone and one was handled via both telephone and email.

Hydro Ottawa declines to file the customer email communications as it does not consider this to be a material and appropriate information request for a rate application process.

b) Please see the response to part a).

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

1-ED-6

EVIDENCE REFERENCE:

Reference: Exhibit 1, Tab 3, Schedule 4, p. 8

QUESTION(S):

a) Hydro Ottawa indicates that it will install four storage systems. Please indicate the in-service dates.
b) The storage systems will be used during contingency conditions. Can those conditions be reliably forecast? How many times a year are they expected to occur?
c) Will Hydro Ottawa use the BESS systems for price arbitrage or to generate other value at times when contingency conditions are not forecast? If not, why not, and would Hydro Ottawa consider securing this additional value?
d) If known, please identify the firm that Hydro Ottawa intends to contract with to purchase the BESS and operate the BESS.

RESPONSE(S):

a) Please refer to part c) iv) of the response to interrogatory 2-Staff-111.

b) Hydro Ottawa does not track or forecast contingency conditions. When a contingency scenario is required for planned maintenance or construction activities Hydro Ottawa conducts a risk assessment and implements mitigation strategies, which in future will consider utilization of Battery Energy Storage Systems (BESS). As the primary use case for deploying BESS is for reducing peak demand, forecasting for contingencies was not undertaken.

c) Hydro Ottawa plans to assess the potential of using BESS systems for price arbitrage. This assessment will weigh potential revenue gains against operational costs and market risks. Key factors in this analysis include the volatility and predictability of wholesale electricity prices, as greater and more reliable price spreads directly translate to higher arbitrage profits. The efficiency and degradation rate of the battery are also crucial, as energy losses during charging and discharging, combined with the battery's lifespan, directly impact long-term profitability. Furthermore, Hydro Ottawa will consider regulatory frameworks and market rules that might incentivize or restrict arbitrage. Finally, the opportunity cost of using the BESS for arbitrage versus other valuable services, such as grid stability, frequency regulation, or capacity markets, will be evaluated, as these services might offer more consistent or higher revenue streams depending on current grid needs and market structures.

d) Hydro Ottawa is in the early design stages for the BESS projects and, as such, has not yet contracted any firms for their purchase or operation. These BESS projects will proceed through a formal Request for Proposals (RFP) process.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

1-ED-7

EVIDENCE REFERENCE:

Reference: Exhibit 1, Tab 4, Schedule 1

QUESTION(S):

a) Does Hydro Ottawa survey its customers regarding the likelihood that they will purchase a cold climate heat pump in the near future? If yes, please provide the results. If not, why not, and is Hydro Ottawa willing to do so in the future? For an example of survey questions, see the Burlington Hydro customer engagement survey.
b) Please summarize the results of all surveys on EV adoption and compare those to the EV adoption assumptions underlying Hydro Ottawa's load forecast.

RESPONSE(S):

a) Hydro Ottawa has surveyed its customers related to heat pumps (though not specifically cold-climate heat pumps). Please see Attachment 1-ED-7(A) - 2023 Customer Satisfaction Survey - Residential and Small Commercial, page 31.

Hydro Ottawa intends to ask the same heat pump related questions from the 2023 Customer Satisfaction survey in its 2025 Customer Satisfaction Survey, scheduled to be conducted in Q4 2025.

b) Survey results summarizing customer views and intentions on EVs can be found in the following reports:
   - Attachment 1-4-1(F) - Behind the Meter Survey, Pages 46-47, 67-68

- Attachment 1-ED-7(A) - 2023 Customer Satisfaction Survey - Residential and Small Commercial, pages 28-30.
- Attachment 1-ED-7(B) - 2024 Customer Satisfaction Study results - Large Commercial Page 42-43.

Table A below provides a summary of surveys on EV adoption, which Hydro Ottawa uses to gauge customer interest, sentiment, and intent. While the results are valuable for understanding market trends and informing customer engagement strategies, they are not used for quantitative forecasting.

Table A - Summary of Survey Results Related to EV Adoption

Category	Source Survey	
	2021 Behind the Meter	**2023 Customer Satisfaction (residential & small commercial)**
EV Ownership	5%	5%
EV Purchase likelihood	15% “Would definitely buy when it’s time to replace existing vehicle”	19% “Very likely to buy when ready to purchase new vehicle”
	2022 Customer Satisfaction (Large Commercial)	**2024 Customer Satisfaction (Large Commercial)**
Considering Electrifying company owned vehicles (“definitely/probably”)	42%	51%
Likelihood of installing charging stations in next 12 months	42%	43%

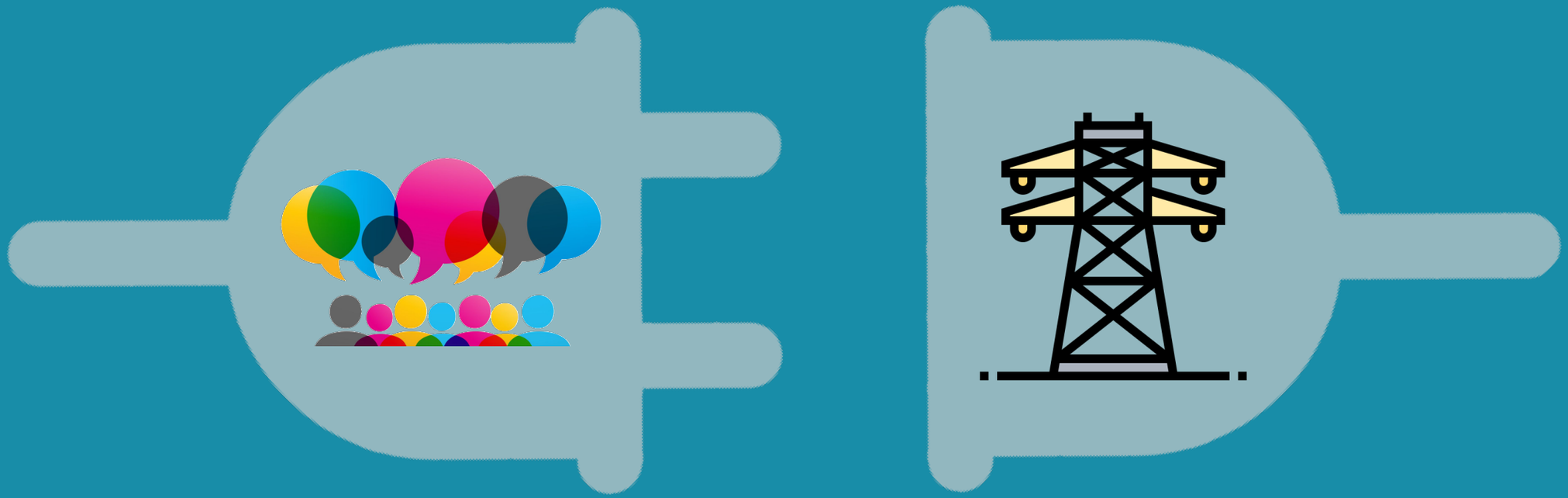
The EV assumptions for the load forecast did not consider survey results, but were instead informed by municipal and federal targets. Further details regarding the EV assumptions used in Hydro Ottawa’s load forecast can be found in Section 2 of Attachment 2-5-4(F) - Decarbonization Study. Hydro Ottawa will continue to monitor the realization of electrification load and adjust system forecast and investment plans as necessary. Please also see response to interrogatory 1-DRC-4.

UtilityPULSE

Hydro Ottawa

Hydro Ottawa

25th Annual



Electric Utility Customer Satisfaction Survey



UtilityPULSE

Electric Utility Customer Satisfaction Survey

- **These results are based on online and telephone interviews of *601 respondents* who pay or look after the electricity bills for *Hydro Ottawa.* A sample size of 601 will provide a confidence level of 95% (+/- 4.0%)**
- **Customers surveyed were based on a *random sample* approach**
- **The following *segments* were surveyed:**
  - **Residential – 85%**
  - **Commercial – 15%**
- **UtilityPULSE segmented respondents into 3 "average kWh usage groups": Group 1 represents lowest 25% of kWh usage, Group 2 middle 50%, and Group 3 top 25%**
- **The Utility*PULSE* Report Card® is computed by formulas which map the attributes of corporate image to customer satisfaction and loyalty**
- **Comparator data:**
  - **Ontario benchmark**
  - **National benchmark**
  - **UtilityPULSE database for 2023 (all participating LDCs)**

NUMBERS at a Glance



	Hydro Ottawa 2023	National 2023	Ontario 2023
Customer Satisfaction: Initial	91%	91%	92%
Customer Satisfaction: Post	89%	90%	91%
Customer Advocacy	79%	79%	79%
Customer Commitment	83%	83%	82%
Customer Experience Performance Rating (CEPr)	82%	82%	82%
Customer Centric Engagement Index (CCEI)	80%	80%	80%
Credibility & Trust Index	81%	81%	81%
UtilityPULSE Report Card©	A	A	A

NUMBERS at a Glance



	Hydro Ottawa		National		ONTARIO	
	22	23	22	23	22	23
Customer Satisfaction: Initial	93%	91%	92%	91%	90%	92%
Customer Satisfaction: Post	90%	89%	91%	90%	90%	91%
Customer Advocacy	82%	79%	80%	79%	78%	79%
Customer Commitment	86%	83%	84%	83%	82%	82%
Customer Experience Performance Rating (CEPr)	84%	82%	83%	82%	82%	82%
Customer Centric Engagement Index (CCEI)	82%	80%	81%	80%	80%	80%
Credibility & Trust Index	83%	81%	82%	81%	81%	81%
UtilityPULSE Report Card©	A	A	A	A	B+	A

Paying for Electricity

Cost/Value Attributes				
	2022 HO	Hydro Ottawa	National	Ontario
Provides good value for your money	73%	73%	73%	72%
Operates a cost-effective electricity system	72%	74%	74%	73%
Cost of electricity is reasonable compared to other utilities	70%	70%	70%	69%
Provides info/tools to help manage electricity consumption	81%	80%	79%	79%

Base: total respondents with an opinion

Feelings About Paying for Electricity				
	2022 HO	Hydro Ottawa	National	Ontario
Paying for electricity is not really a worry	66%	66%	65%	62%
Sometimes I worry about finding the money to pay for electricity	22%	22%	24%	26%
Paying for electricity is often a major problem	4%	4%	5%	5%
It depends	6%	8%	6%	7%

Base: total respondents

"What our customers say"

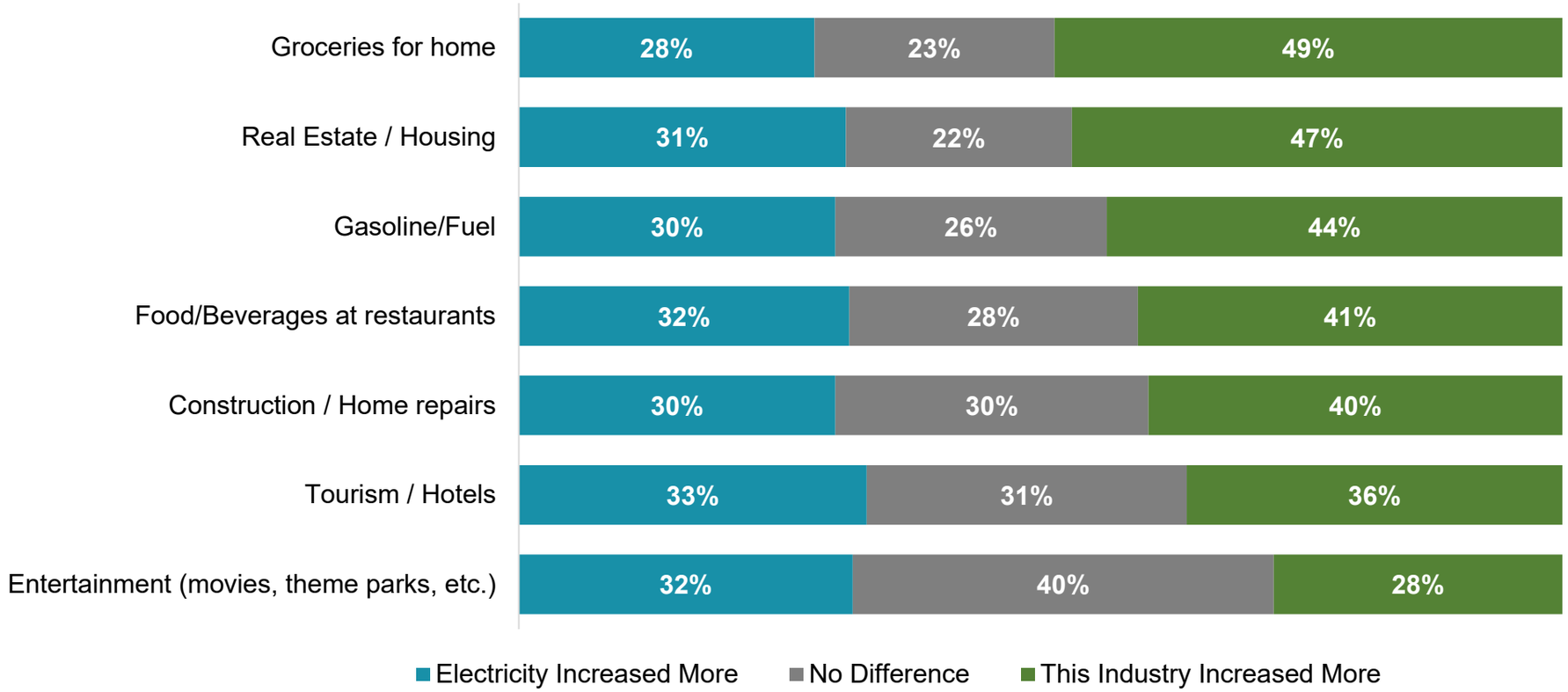
33%

Paying for electricity is <u>at least sometimes</u> a worry

2022
34%

Rising Price Perceptions in Other Industries Versus Electricity

For the most part, electricity consumers either see other industries' prices increasing more than or feel increases are about the same as electricity. Still, a sizeable proportion note electricity costs as challenging vs. other industries.



Base: based on Ontario benchmark and not individual utility customers

Problems/Issues Experienced (Last 12 Months)

Experienced Problem/Issue in Past 12 Months				
	2022 HO	Hydro Ottawa	National	Ontario
Outages	54%	45%	46%	43%
Billing	7%	10%	5%	5%
Other Issues	7%	9%	6%	5%

Base: total respondents

Perceptions of Outage Frequency				
	2022 HO	Hydro Ottawa	National	Ontario
Decreasing	10%	10%	12%	13%
Staying the same	25%	61%	72%	73%
Increasing	65%	29%	16%	14%

Base: total respondents

Outage Frequency "Increasing"		
# OF OUTAGES EXPERIENCED		
1	2	3+
21%	20%	59%

Note: Small sample sizes

Customers are not willing to tolerate 3+ outages

"What our customers say"

81%

"… Quickly handles outages and restores power…"

Problems/Issues Experienced (Last 12 Months)

Issue That Prompted Contact			
	2022 HO	Hydro Ottawa	UP Database
Outages	76%	65%	66%
Billing	20%	28%	31%
Other Issues	17%	20%	19%

Base: total respondents



2022: **34%**

37% of customers said they **contacted Hydro Ottawa about their issue** (vs. **30%** nationally and **31%** in Ontario).

"What our customers say"

85%

"… Provides accurate billing…"

Problems/Issues Experienced (Last 12 Months) By Ability to Pay Electricity Bill

Those who worry about paying their bill tend to perceive more issues, especially when it comes to billing. Brought on by a heightened sense of anxiety and trying to get value for their spending.

Experienced Problem/Issue in Past 12 Months					
		ABILITY TO PAY			
	TOTAL	Not a worry	Sometimes a worry	Often a problem	Depends
Outages	**45%**	43%	45%	38%	68%
Billing	**10%**	8%	13%	46%	8%
Other Issues	**9%**	6%	10%	19%	21%

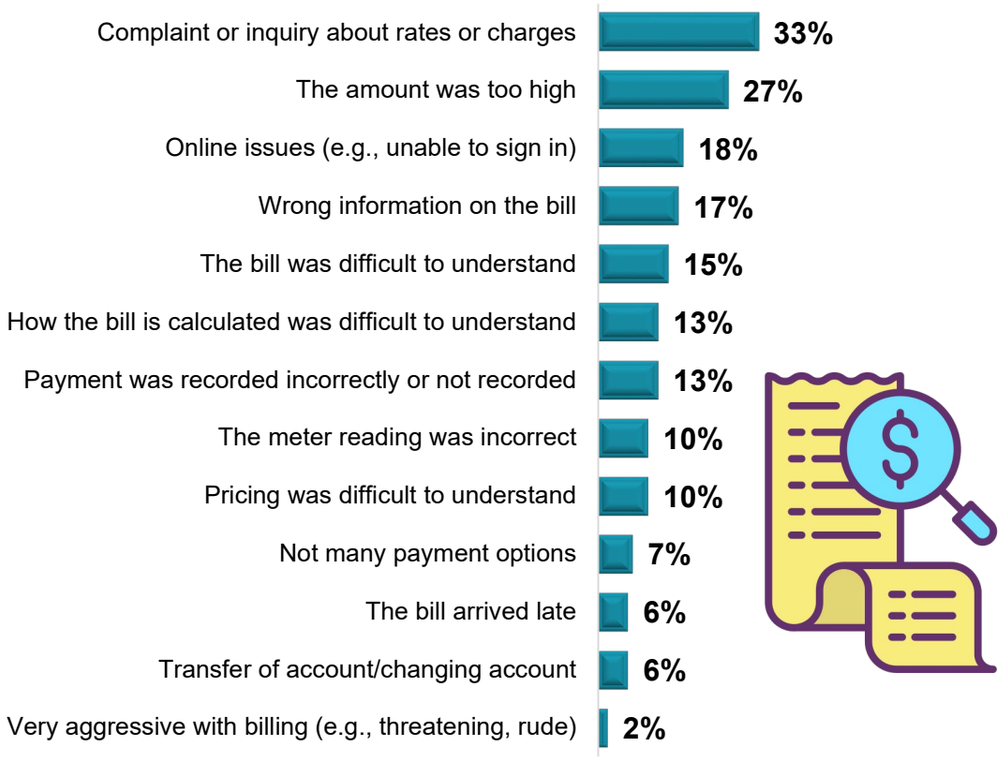
Base: total respondents

46%

"… Billing is an issue…" among those who often have trouble paying their bill

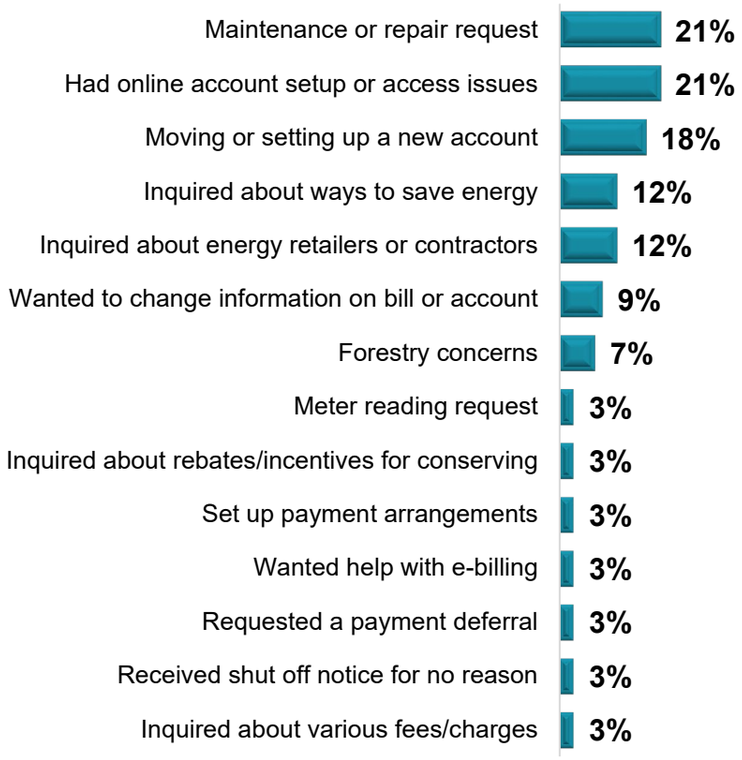
Types of Problems Experienced

Billing Issues Experienced



Base: those who experienced a billing issue, small sample size

Other Issues Experienced



Base: those who experienced some other issue, small sample size

Problems and Problem Resolution

How Many Times Contacted Utility			
	2022 HO	Hydro Ottawa	UP Database
1	34%	29%	35%
2	31%	30%	29%
3	14%	18%	16%
More than 3	19%	23%	19%

Base: respondents contacting utility, small sample size



2022
73%

76%

Respondents felt their problems were solved after contacting the utility (vs. 76% for the National benchmark and 78% for the Ontario benchmark).

Problems and Problem Resolution

How Contacted Utility to Resolve Problem			
	2022 HO	Hydro Ottawa	UP Database
Telephone	82%	87%	89%
Email	14%	11%	14%
Utility's website	27%	27%	14%
Social media	4%	4%	5%
Standard mail	0%	0%	0%
In-person	1%	1%	3%

Base: respondents contacting utility, small sample size



53%

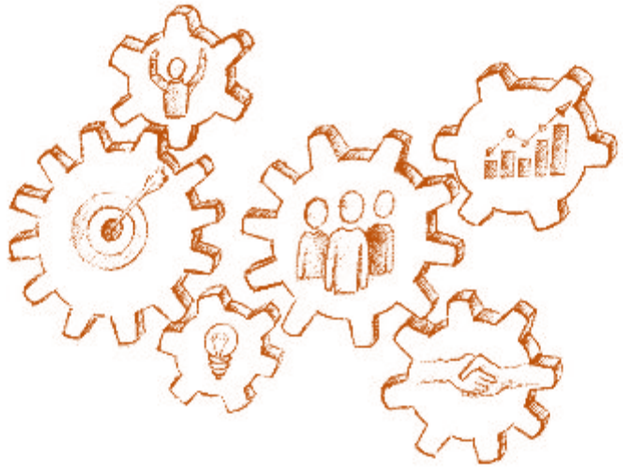
2022
51%

Respondents visited the utility website to try on their own to either resolve or get more clarity on the issue before contacting the utility (vs. the average of 50% for all Ontario LDCs).

Core Operational Attributes

Core Operational Attributes				
	2022 HO	Hydro Ottawa	National	Ontario
Provides consistent, reliable electricity	88%	85%	87%	87%
Quickly handles outages and restores power	82%	81%	83%	84%
Has accurate billing	87%	85%	86%	86%
Has a standard of reliability that meets expectations	86%	84%	85%	85%
Makes electricity safety a top priority	89%	87%	86%	87%

Base: total respondents with an opinion



"What our customers say"

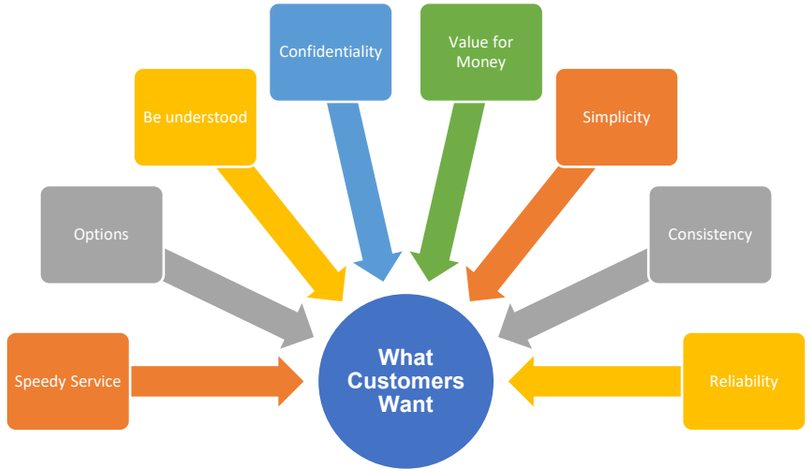
85%

"Provides consistent, reliable electricity…"

Core Customer Service Quality Attributes

Core Customer Service Quality Attributes				
	2022 HO	Hydro Ottawa	National	Ontario
Customer-focused and treats customers as if they're valued	79%	78%	77%	76%
Deals professionally with customers' problems	83%	82%	81%	80%
Is pro-active in communicating changes and issues	80%	80%	78%	77%
Delivers on its service commitments to customers	85%	82%	84%	84%
Is 'easy to do business with'	83%	81%	82%	82%
Adapts well to changes in customer expectations	76%	75%	75%	75%

Base: total respondents with an opinion



"What our customers say"

78%

"… Customer-focused and treats customers as if they're valued…"

Recent Customer Service Experience Satisfaction

Customer Service Expectations				
Top 2 Boxes: 'very satisfied + fairly satisfied'	2022 HO	Hydro Ottawa	National	Ontario
OVERALL SATISFACTION	68%	71%	75%	76%
The time it took to contact someone	60%	64%	69%	73%
The time it took someone to deal with your problem	54%	64%	55%	55%
The helpfulness of the staff who dealt with you	74%	78%	73%	72%
The knowledge of the staff who dealt with you	76%	74%	73%	72%
The level of courtesy of the staff who dealt with you	89%	85%	78%	76%
The quality of information provided by the staff who dealt with you	70%	66%	66%	70%

Base: respondents contacting utility, small sample size



Base: respondents contacting utility, small sample size

"What our customers say"

82%

"Deals professionally with customers' problems…"

Credibility and Trust Rating

Demonstrating Credibility and Trust
Knowledge
The utility is seen as being knowledgeable about the services it provides, about what is happening in the industry, and how customers can reduce costs or create more value.
Integrity
The utility is seen as an organization that will act in the best interests of its customers and can be counted on to provide services and resolve problems in a professional manner.
Involvement
The utility is actively involved in the industry, in the community and in things that affect the customer.
Trust
The utility is an organization that can be trusted and is worthy of respect.
Overall Hydro Ottawa 81% **(National 81%; Ontario 81%)**



Base: total respondents

2022
81%

CREDIBILITY & TRUST SCORE									
	OUTAGE ISSUE		BILLING ISSUE		OTHER ISSUES		OUTAGE MOMENTUM		
Total	Yes	No	Yes	No	Yes	No	Decrease	Same	Increase
81%	77%	85%	70%	82%	70%	82%	85%	83%	75%



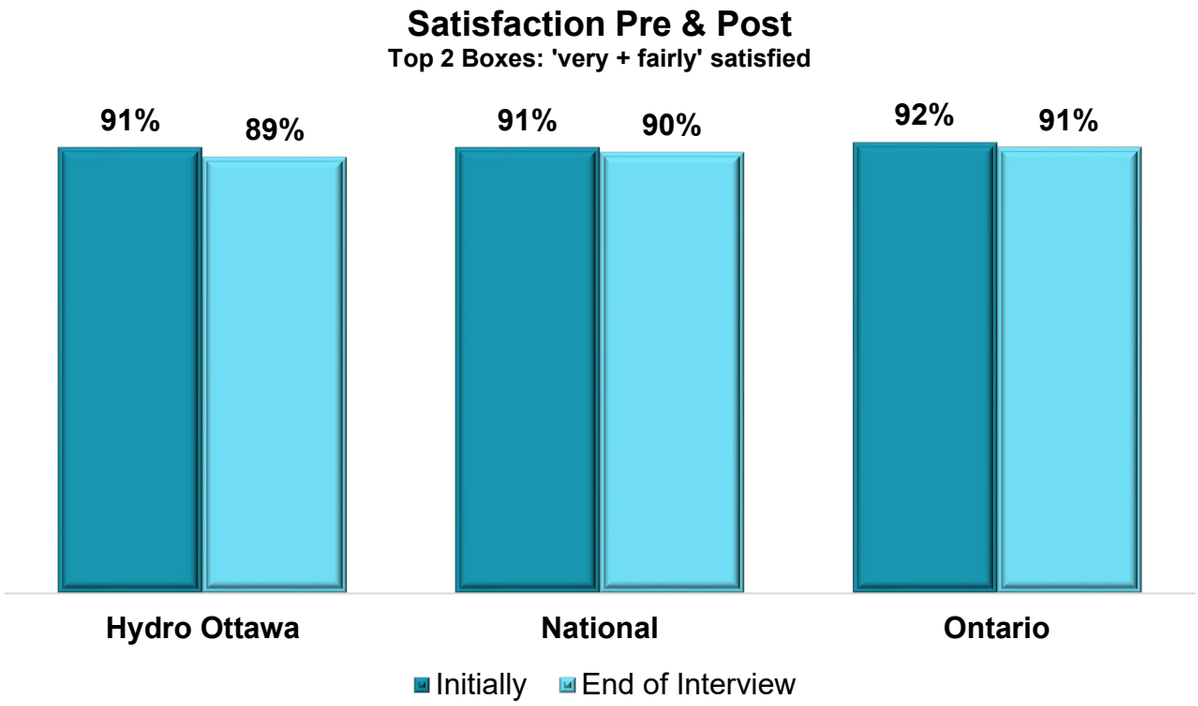
82%

“Keeps its promises to customers and the community…”

Customer Satisfaction

Satisfaction Pre & Post				
Top 2 Boxes: 'very + fairly satisfied'	2022 HO	Hydro Ottawa	National	Ontario
PRE: Initial Satisfaction Scores	93%	91%	91%	92%
POST: End of Interview	90%	89%	90%	91%

Base: total respondents



Base: total respondents

"What our customers say"

PRE **91%**

2022 **93%**

"SATISFIED: Beginning of Interview"

"What our customers say"

POST **89%**

2022 **90%**

"SATISFIED: End of Interview"

Customer Satisfaction By Key Groups

Satisfaction is notably lower among customers who do not believe that Hydro Ottawa has a standard of reliability that meets expectations, is not delivering proactive communication, who were not satisfied with customer service, did not feel their problem was solved, have a challenging time paying their bill, and have experienced issues (especially billing, others). Engaging in the survey and discussing electricity for an extended period brought anger to forefront of those feeling that the standard of reliability is not meeting expectations.

Satisfaction Pre & Post													
Top 2 Boxes: 'very + fairly satisfied'		STANDARD OF RELIABILITY		PROACTIVE COMMUNICATION		RECENT CS EXPERIENCE		PROBLEM SOLVED		ABILITY TO PAY			
	TOTAL	Agree	Disagree	Agree	Disagree	Satisfied	Not	Yes	No	Not a worry	Sometimes a worry	Often a prob	Depends
PRE	**91%**	95%	58%	96%	57%	91%	47%	88%	50%	95%	89%	55%	81%
POST	**89%**	94%	39%	94%	53%	94%	35%	89%	41%	93%	85%	57%	76%

Base: total respondents

Satisfaction Pre & Post										
Top 2 Boxes: 'very + fairly satisfied'		OUTAGE ISSUE		BILLING ISSUE		OTHER ISSUES		OUTAGE MOMENTUM		
	TOTAL	Yes	No	Yes	No	Yes	No	Decrease	Same	Increase
PRE	**91%**	89%	93%	70%	93%	74%	93%	97%	92%	88%
POST	**89%**	85%	92%	69%	91%	71%	90%	93%	91%	84%

Base: total respondents

Customer Commitment & Customer Advocacy

CUSTOMER COMMITMENT

"Is a company that you would like to continue to do business with"

Customer Commitment				
	2022 HO	Hydro Ottawa	National	Ontario
Continue to do business with	86%	83%	83%	82%

Base: total respondents with an opinion



CUSTOMER ADVOCACY

"Is a company that you would recommend to others"

Customer Advocacy				
	2022 HO	Hydro Ottawa	National	Ontario
Recommend to others	82%	79%	79%	79%

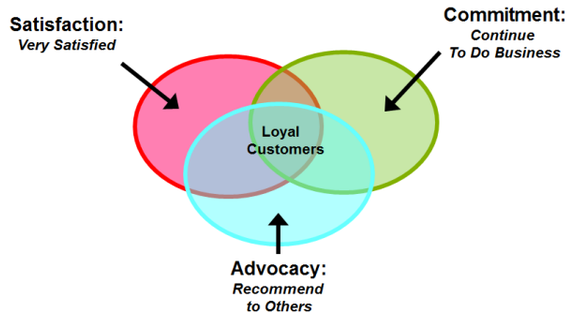
Base: total respondents with an opinion



Customer Loyalty (Affinity)



Customer Loyalty Model



Loyalty Factor				
	2022 HO	Hydro Ottawa	National	Ontario
Secure	24%	24%	25%	26%
Favorable	23%	24%	23%	22%
Indifferent	46%	45%	45%	46%
At Risk	8%	7%	7%	7%

Base: total respondents

Secure customers are “very satisfied” overall with their local electric utility. They have a very high emotional connection with their utility and “definitely” would recommend their local utility.

Still favorable customers are “very satisfied” overall, “definitely” or “probably” would recommend their local utility and not switch if they could.

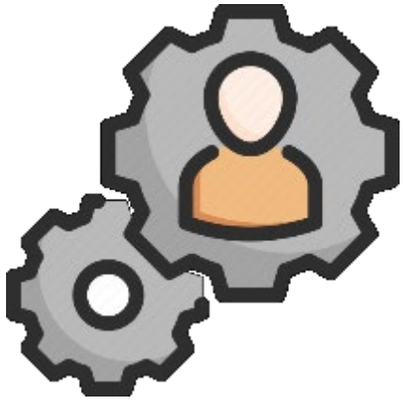
Indifferent customers are less satisfied overall than secure and still-favorable customers and less inclined to recommend their local utility or say they would not switch.

At risk customers, who are “very dissatisfied” with their electric utility, “definitely” would switch and “definitely” would not recommend it.



Customer Effort and Experience Score™ (CEES)

Two Drivers of Customer Effort:



1. How much effort it takes to get service:

- The amount of time and energy is used to interact with the LDC
- The ease or difficulty it is to do business with the LDC

2. How the experience makes a Customer feel:

- Happy, satisfied, content or
- Frustrated, dissatisfied, upset



High-effort experiences, i.e. ‘’difficult” and “time-consuming”

Low-effort experiences, i.e. ‘’fast” and “easy”



Customer Effort and Experience Score™ (CEES)

Customer Effort and Experience Score™ (CEES)			
	Opportunity Range* <15%	Good Range* 15-34%	Very Good Range* 35+%
Hydro Ottawa		25%	
National Benchmark		21%	
Ontario Benchmark		20%	
UtilityPULSE Database		30%	

Base: total respondents
*Note: range bands represent 2023 data and can change year-to-year

The amount of time and energy used to interact with the LDC to get service or a problem solved. **Fast and easy is valued.**

The way a customer feels about an experience is even more important than the actual experience. **Perception is all there is.**

2022
29%

"What our customers say"

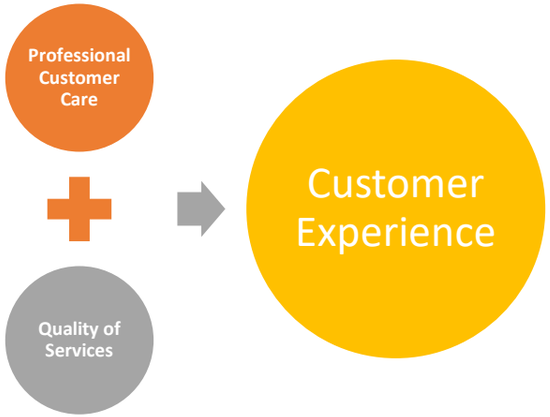
25%

"… Customer Effort and Experience Score™ (CEES)…"

CEPr: Customer Experience Performance Rating

Customer Experience Performance rating (CEPr)				
	2022 HO	Hydro Ottawa	National	Ontario
CEPr	84%	82%	82%	82%

Base: total respondents



At the heart of the CEPr are 4 central questions:

1. *Are interactions with the organization professional and productive?*
2. *Is the organization 'easy to deal with'?*

+

3. *Does the organization effectively meet your needs?*
4. *Does the organization provide high quality services?*

2022
84%

"What our customers say"

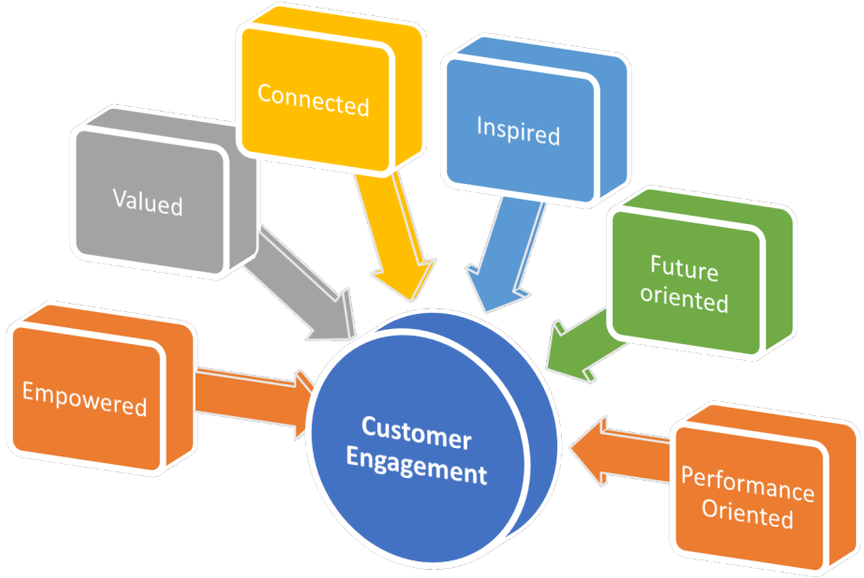
82%

"CEPr: Customer experience rating…"

CCEI: Customer Centric Engagement Index

Customer Centric Engagement Index (CCEI)				
	2022 HO	Hydro Ottawa	National	Ontario
CCEI	82%	80%	80%	80%

Base: total respondents



2022
82%

"What our customers say"

80%

"… CCEI: Customer Centric Engagement Index…"

Company Image / Brand Personality



Base: total respondents with an opinion

UtilityPULSE Report Card®: A

Hydro Ottawa's UtilityPULSE Report Card®					
	Category	2022 HO	Hydro Ottawa	National	Ontario
1	**Customer Care**	B+	B+	B+	B+
	Price and Value	B+	B+	B+	B
	Customer Service	A	A	B+	B+
2	**Company Image**	A	B+	B+	B+
	Company Leadership	A	B+	B+	B+
	Corporate Stewardship	A	B+	B+	B+
3	**Management Operations**	A	A	A	A
	Operational Effectiveness	A	A	A	A
	Power Quality and Reliability	A	A	A	A
	OVERALL	A	A	A	A

"B+… Customer Care"

"A … Company Image"

"A … Management Operations"

How Can We Improve?

One or two most important new services or changes that 'your local utility' could do to improve*	Hydro Ottawa
Better prices/lower prices	15%
Better power reliability/less power outages	10%
Bury the power lines	6%
Promote electric cars/have charging stations	6%
Improve infrastructure	5%
Get involved with green energy (e.g. wind, solar, etc.)	4%
Good/like it/satisfied/keep up the good work	4%
Better preparedness/management of the system	3%
None/nothing/satisfied	10%

Base: total respondents
*Note: only top mentions are displayed



2022
15%

"What our customers say"

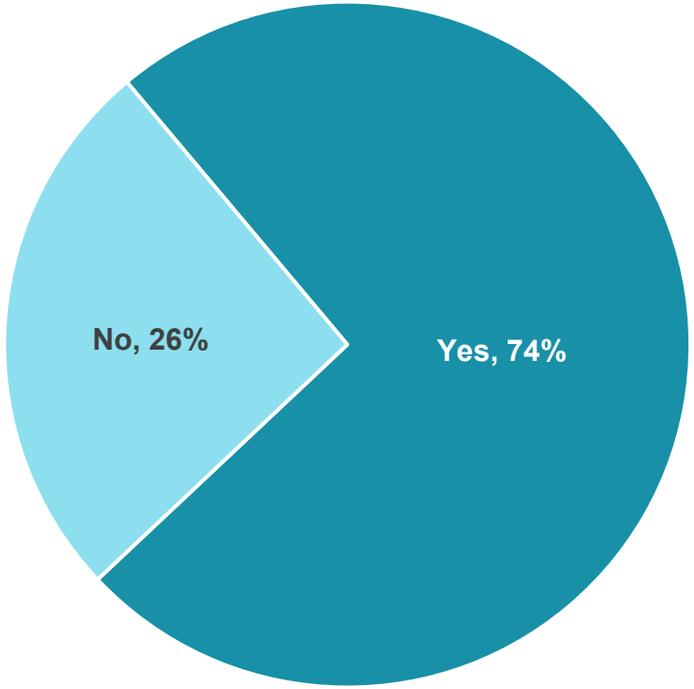
15%

"Better prices/lower rates…"

Current Vehicles Owned

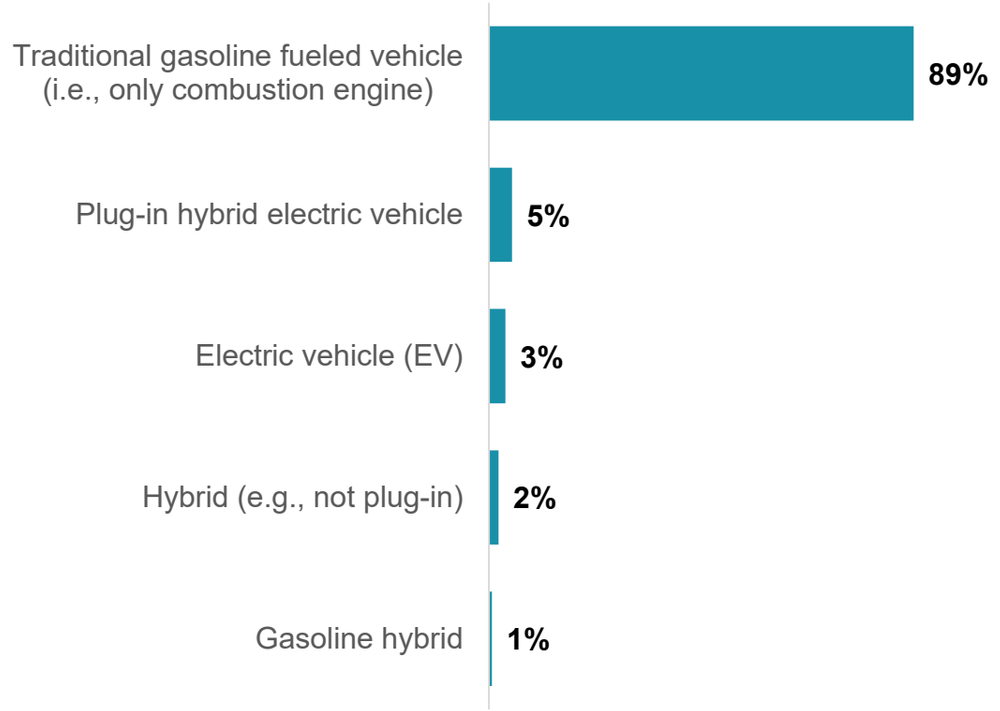
Most customers own/lease at least one vehicle. Very few currently have an EV.

Vehicles Owned/Leased



Base: total respondents

Types of Vehicles Owned/Leased

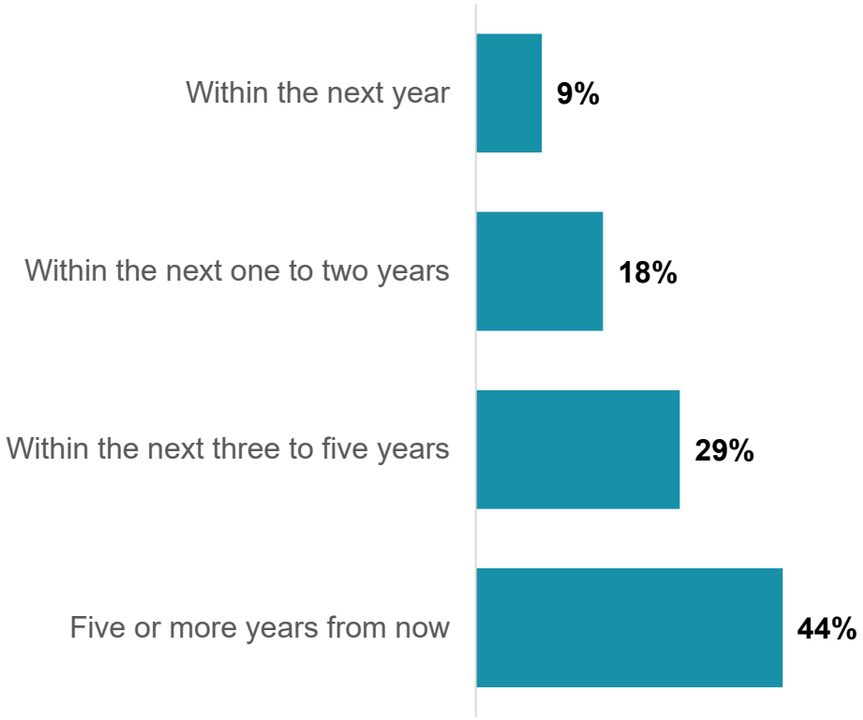


Base: those who own/lease any vehicle

When Intend to Replace Vehicle and Likelihood of Buying an EV

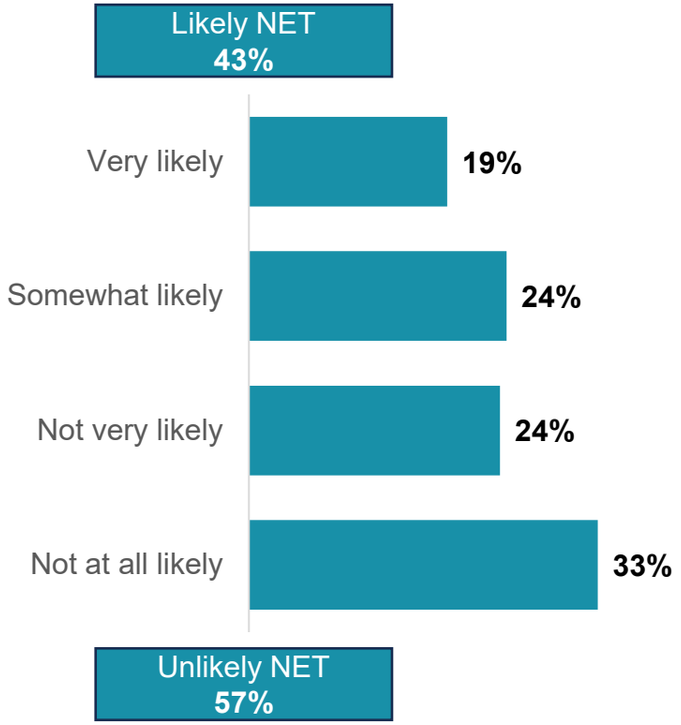
Most do not intend to replace their vehicle for some time. About 4 in 10 say they would be likely to buy an EV when they are ready to do so. Majority not open to the possibility.

When Intend to Replace Vehicle



Base: those who own/lease any vehicle

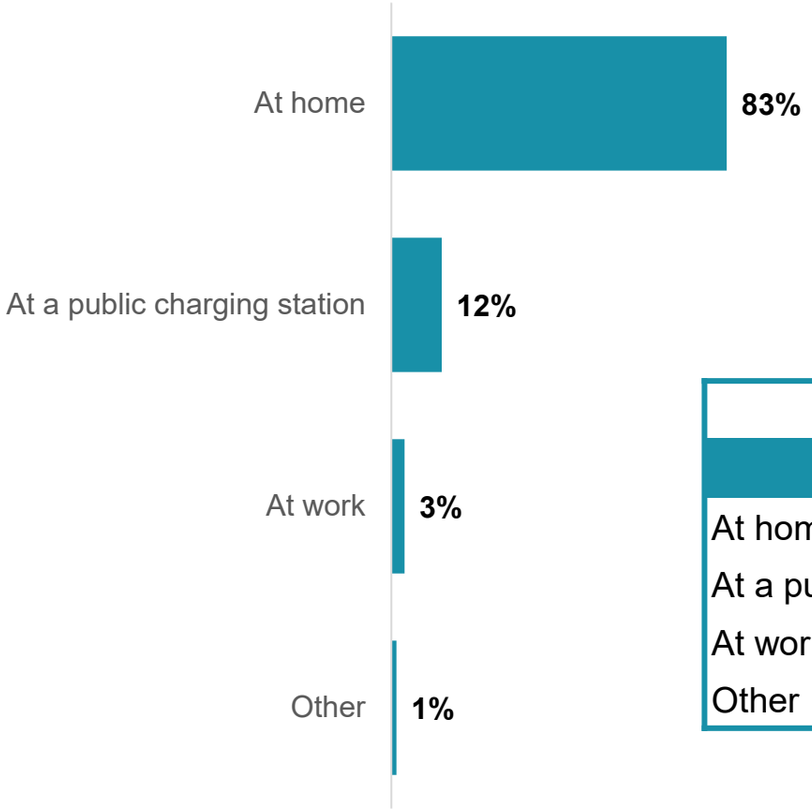
Likelihood to Buy an EV



Base: total respondents with an opinion

How Currently or Would Charge an EV

Home is or would be the primary location for charging an EV.



95%

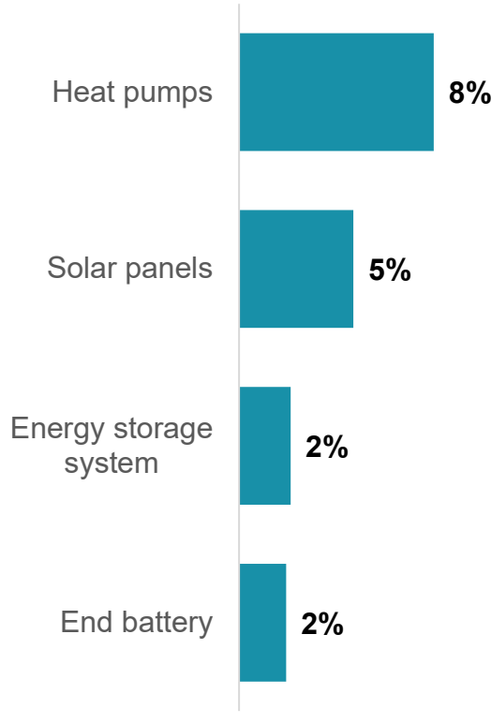
Of EV owners today are using a Level 2 charger (240 volt outlet)

HOW CURRENTLY/WOULD CHARGE EV						
	TOTAL	Ottawa	Nepean	Glou-cester	Kanata	Goul-boum
At home	**83%**	81%	79%	80%	94%	100%
At a public charging station	**12%**	15%	15%	15%	0%	0%
At work	**3%**	3%	4%	4%	6%	0%
Other	**1%**	1%	3%	0%	0%	0%

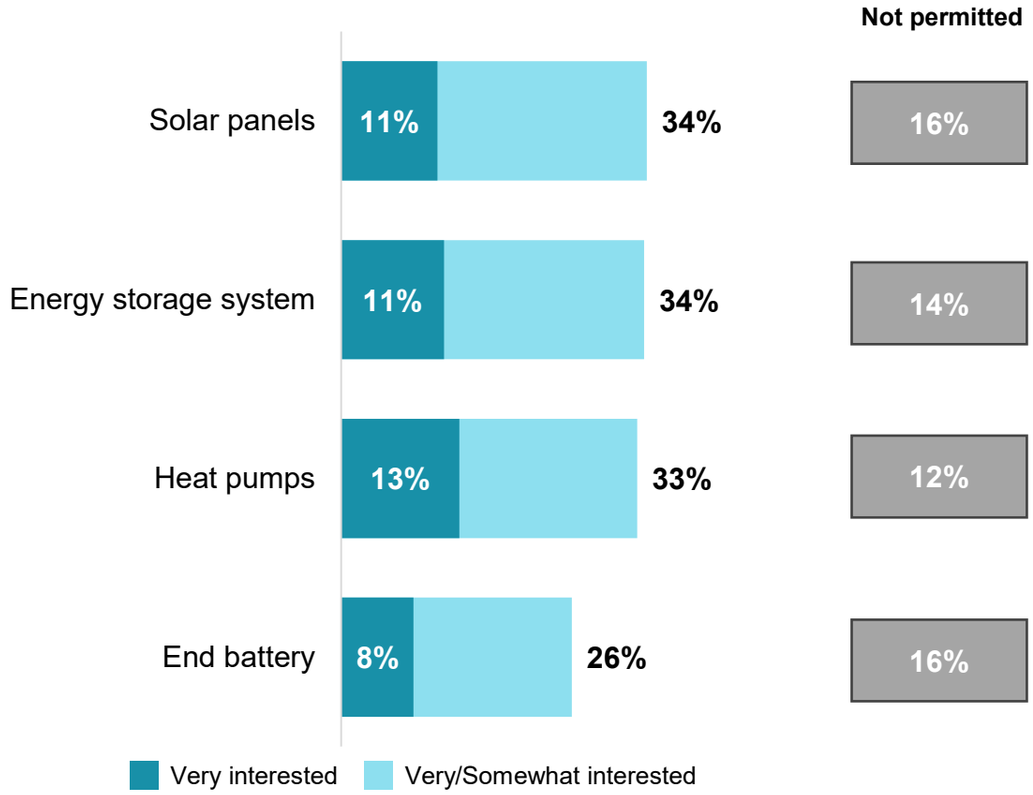
Base: respondents who own an EV or would consider one in the future

Technologies Owned and Interest in Technologies for Home/Workplace in the Next Two Years

Very few currently own any notable energy-saving technologies. There is some limited future interest (less so in end batteries).



Base: total respondents



Base: total respondents

- **Despite tightening wallets due to the current financial climate and a greater prominence and scrutiny placed on all household expenditures, customers continue to be generally satisfied with Hydro Ottawa.**
- **While just over half say that paying for electricity is at least sometimes a worry, more believe that increasing prices have affected other industries (especially groceries, real estate, gas, and food) more than they have affected the electricity industry. Still, a sizeable proportion note electricity costs as challenging vs. other industries and anxiety about costs and value perceptions have been exacerbated by the economic climate for a segment of customers.**
- **There is a vulnerable segment of customers who are anxious and worried about their finances – they have a heightened sense of value about where their money is being spent. Those who worry about paying their bill tend to perceive more issues with Hydro Ottawa, especially when it comes to billing issues. The stress caused by an inability to pay leads to more negative perceptions of all service providers – they desire a strong ROI on anything they spend. The survey was an opportunity to vent about their frustrations.**
- **Delivering reliable electricity continues to be a core expectation for customers. Customers are not willing to tolerate 2 or more outages – the perception that outages are increasing significantly increases when they experience more than 1 outage.**
- **Credibility and trust ratings as well as overall satisfaction are notably weaker among those who experienced various issues and those who believe that outages are increasing. Moreover, satisfaction levels are significantly lower among those who disagree that Hydro Ottawa has a standard of reliability that meets their expectations.**
- **Maintaining strong customer service levels remains critical; those who were not satisfied with their experience or did not feel their problem was solved are much more likely to express dissatisfaction with Hydro Ottawa.**
- **Customer effort, experience, and engagement are strongly linked to customer service impressions as well as Hydro Ottawa's ability to be proactive with communications.**
- **Most do not currently own an electric vehicle nor are they open to owning one in the future. They are not intending to replace their primary vehicle in the next few years. Mass EV adoption is years away.**
- **If they did an own an electric vehicle, most say they would charge it at home.**
- **Very few currently own any notable energy-saving technologies. There is some limited future interest (less so in end batteries).**



UtilityPULSE

Electric Utility Customer Satisfaction Survey

NUMBERS at a Glance



	Hydro Ottawa 2023	National 2023	Ontario 2023
Customer Satisfaction: Initial	91%	91%	92%
Customer Satisfaction: Post	89%	90%	91%
Customer Advocacy	79%	79%	79%
Customer Commitment	83%	83%	82%
Customer Experience Performance Rating (CEPr)	82%	82%	82%
Customer Centric Engagement Index (CCEI)	80%	80%	80%
Credibility & Trust Index	81%	81%	81%
UtilityPULSE Report Card©	A	A	A

NUMBERS at a Glance



	Hydro Ottawa		National		ONTARIO	
	22	23	22	23	22	23
Customer Satisfaction: Initial	93%	91%	92%	91%	90%	92%
Customer Satisfaction: Post	90%	89%	91%	90%	90%	91%
Customer Advocacy	82%	79%	80%	79%	78%	79%
Customer Commitment	86%	83%	84%	83%	82%	82%
Customer Experience Performance Rating (CEPr)	84%	82%	83%	82%	82%	82%
Customer Centric Engagement Index (CCEI)	82%	80%	81%	80%	80%	80%
Credibility & Trust Index	83%	81%	82%	81%	81%	81%
UtilityPULSE Report Card©	A	A	A	A	B+	A



Electric Utility Customer Satisfaction Survey

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Email: david@utilitypulse.com

UtilityPULSE

Hydro Ottawa

Hydro Ottawa



26th Annual

Electric Utility Large Commercial Customer Satisfaction Survey

Methodology

- These results are based on online and telephone interviews of *116 large commercial respondents* who pay or look after the electricity bills for *Hydro Ottawa.* A sample size of 116 will provide a confidence level of 95% (+/- 9.1%)
  - A total of 11 of these interviews were among key accounts
- Customers surveyed were based on a *random sample* approach
- The Utility*PULSE* Report Card® is computed by formulas which map the attributes of corporate image to customer satisfaction and loyalty
- Comparator data:
  - Cohort average for 2024 (all participating Large Commercial LDCs)



UtilityPULSE

Electric Utility Customer Satisfaction Survey

NUMBERS at a Glance



	Hydro Ottawa 2024	Key Accounts 2024	Non-Key Accounts 2024	Cohort Average 2024
Customer Satisfaction: Initial	**97%**	**100%**	**96%**	**98%**
Customer Satisfaction: Post	**95%**	**100%**	**94%**	**97%**
Customer Advocacy	**85%**	**93%**	**84%**	**85%**
Customer Commitment	**88%**	**93%**	**87%**	**89%**
Customer Experience Performance Rating (CEPr)	**86%**	**89%**	**86%**	**86%**
Customer Centric Engagement Index (CCEI)	**86%**	**90%**	**85%**	**85%**
Credibility & Trust Index	**86%**	**90%**	**86%**	**86%**
UtilityPULSE Report Card©	**A**	**A**	**A**	**A**

NUMBERS at a Glance



	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
Customer Satisfaction: Initial	94%	97%	100%	100%	92%	96%	95%	98%
Customer Satisfaction: Post	92%	95%	96%	100%	90%	94%	92%	97%
Customer Advocacy	85%	85%	89%	93%	83%	84%	84%	85%
Customer Commitment	88%	88%	92%	93%	86%	87%	87%	89%
Customer Experience Performance Rating (CEPr)	85%	86%	86%	89%	84%	86%	86%	86%
Customer Centric Engagement Index (CCEI)	84%	86%	86%	90%	83%	85%	84%	85%
Credibility & Trust Index	85%	86%	87%	90%	84%	86%	85%	86%
UtilityPULSE Report Card©	A	A	A	A	A	A	A	A

Cost/Value Attributes

Cost/Value Attributes	Hydro Ottawa	Key Accounts	Non-Key Accounts	Cohort Average
Provides good value for your money	76%	88%	75%	76%
Operates a cost-effective electricity system	75%	80%	74%	76%
Cost of electricity is reasonable compared to other utilities	70%	80%	69%	71%
Provides info/tools to help manage electricity consumption	81%	88%	81%	80%

Base: total respondents with an opinion (note small sample size of n=11 for key accounts)



"What our customers say"

76%

"Provides good value for money…"

Cost/Value Attributes Trended

	Cost/Value Attributes							
	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
Provides good value for your money	76%	76%	77%	88%	76%	75%	75%	76%
Operates a cost-effective electricity system	75%	75%	76%	80%	75%	74%	76%	76%
Cost of electricity is reasonable compared to other utilities	70%	70%	68%	80%	70%	69%	68%	71%
Provides info/tools to help manage electricity consumption	83%	81%	80%	88%	84%	81%	81%	80%

Base: total respondents with an opinion (note small sample sizes for key accounts)



"What our customers say"

76%

2022
76%

"Provides good value for money…"

Core Operational Attributes

Core Operational Attributes	Hydro Ottawa	Key Accounts	Non-Key Accounts	Cohort Average
Provides consistent, reliable electricity	89%	84%	90%	89%
Quickly handles outages and restores power	86%	86%	86%	89%
Has accurate billing	87%	95%	87%	88%
Has a standard of reliability that meets expectations	87%	86%	87%	88%
Makes electricity safety a top priority	93%	91%	94%	92%

Base: total respondents with an opinion (note small sample size of n=11 for key accounts)



"What our customers say"

89%

"Provides consistent, reliable electricity…"

Core Operational Attributes Trended

	Core Operational Attributes							
	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
Provides consistent, reliable electricity	86%	89%	85%	84%	87%	90%	89%	89%
Quickly handles outages and restores power	83%	86%	84%	86%	83%	86%	85%	89%
Has accurate billing	89%	87%	90%	95%	89%	87%	87%	88%
Has a standard of reliability that meets expectations	86%	87%	88%	86%	85%	87%	88%	88%
Makes electricity safety a top priority	89%	93%	92%	91%	87%	94%	90%	92%

Base: total respondents with an opinion (note small sample sizes for key accounts)



"What our customers say"

89%

2022
86%

"Provides consistent, reliable electricity…"

Problems/Issues Experienced (Last 12 Months)

Experienced Problem/Issue in Past 12 Months	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
Outages	47%	43%	50%	55%	46%	42%	37%	31%
Billing	9%	15%	13%	9%	6%	15%	10%	12%
Other Issues	15%	7%	17%	18%	14%	6%	9%	6%

Base: total respondents (note small sample sizes for key accounts)

Experienced Problem/Issue in Past 12 Months	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
Decreasing	10%	7%	0%	18%	14%	6%	10%	10%
Staying the same	69%	81%	70%	64%	68%	83%	76%	76%
Increasing	21%	11%	30%	18%	18%	10%	13%	14%

Base: total respondents (note small sample sizes for key accounts)



51% of customers said they contacted Hydro Ottawa about their issue (vs. 52% for the average of all Large Commercial LDCs).

Issue That Prompted Contact	Hydro Ottawa	Cohort Average
Outages	50%	51%
Billing	44%	40%
Other Issues	9%	14%

Base: those who contacted the utility

"What our customers say"

87%

"… Provides accurate billing…"

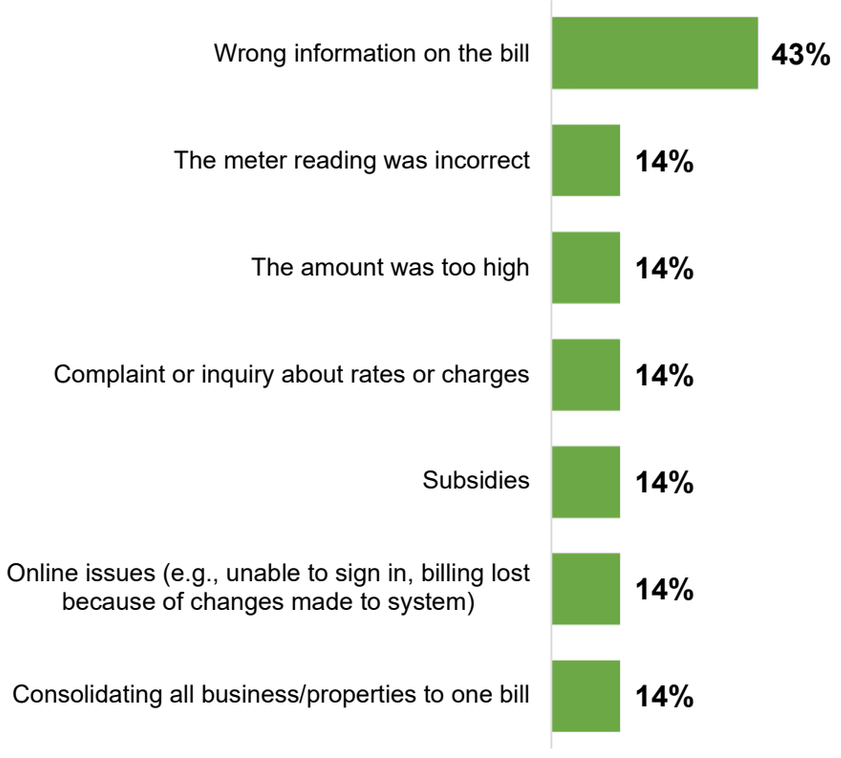
"What our customers say"

86%

"… Quickly handles outages and restores power…"

Types of Problems Experienced

Billing Issues Experienced (n=14)





Base: those who experienced a billing issue, small sample size

Problems and Problem Resolution

How Many Times Contacted Utility	2022	Hydro Ottawa	Cohort Average
1	14%	16%	17%
2	17%	22%	26%
3	9%	13%	11%
More than 3	54%	41%	40%

Base: respondents contacting utility, small sample size



2022
69%

66%

Respondents felt their problems were solved after contacting the utility (vs. 63% for the average of all Large Commercial LDCs).

How Contacted Utility to Resolve Problem	2022	Hydro Ottawa	Cohort Average
Telephone	97%	78%	83%
Email	32%	47%	37%
Utility's website	21%	3%	6%
Social media	3%	0%	0%
Standard mail	0%	0%	0%
In-person	0%	0%	0%

Base: respondents contacting utility, small sample size



31%

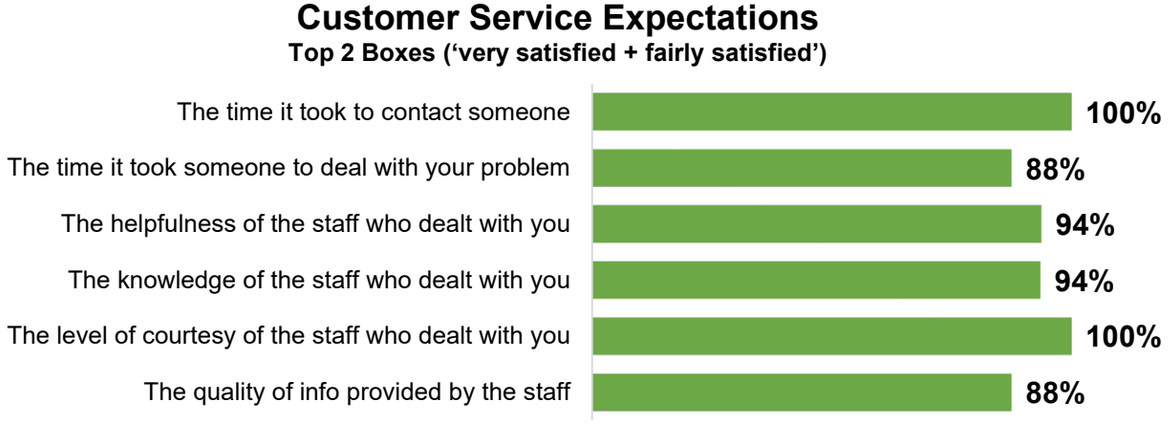
2022
38%

Respondents visited the utility website to try on their own to either resolve or get more clarity on the issue before contacting the utility (vs. 34% for the average of all Large Commercial LDCs).

Recent Customer Service Experience Satisfaction

Customer Service Expectations Top 2 Boxes: 'very satisfied + fairly satisfied'	Hydro Ottawa	Cohort Average
OVERALL SATISFACTION	**94%**	**94%**
The time it took to contact someone	100%	100%
The time it took someone to deal with your problem	88%	85%
The helpfulness of the staff who dealt with you	94%	91%
The knowledge of the staff who dealt with you	94%	94%
The level of courtesy of the staff who dealt with you	100%	97%
The quality of information provided by the staff who dealt with you	88%	86%

Base: respondents contacting utility, small sample size



Base: respondents contacting utility, small sample size



Recent Customer Service Experience Satisfaction

Core Customer Service Quality Attributes	Hydro Ottawa		Cohort Average	
	2022	2024	2022	2024
OVERALL SATISFACTION	**91%**	**94%**	**87%**	**94%**
The time it took to contact someone	82%	100%	79%	100%
The time it took someone to deal with your problem	85%	88%	78%	85%
The helpfulness of the staff who dealt with you	88%	94%	84%	91%
The knowledge of the staff who dealt with you	91%	94%	90%	94%
The level of courtesy of the staff who dealt with you	94%	100%	95%	97%
The quality of information provided by the staff who dealt with you	82%	88%	81%	86%

Base: respondents contacting utility, small sample size

"What our customers say"

88%

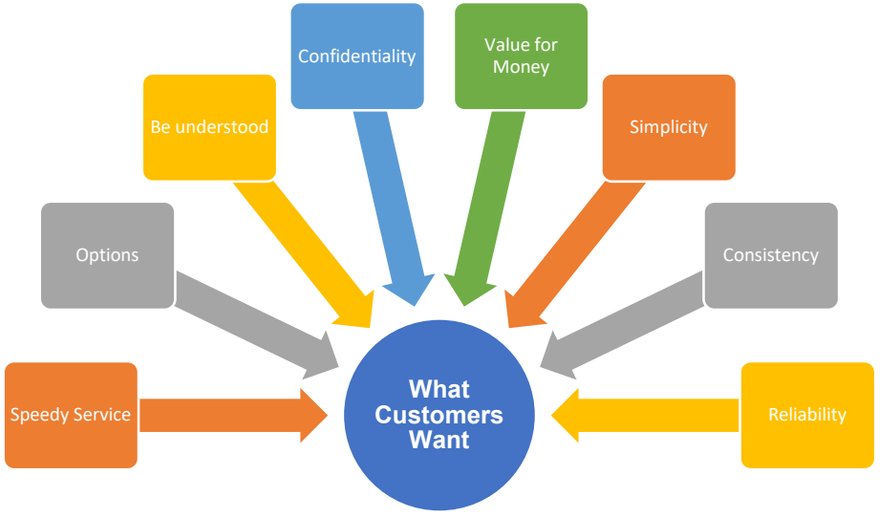
2022
87%

"Deals professionally with customers' problems…"

Core Customer Service Quality Attributes

Core Customer Service Quality Attributes	Hydro Ottawa	Key Accounts	Non-Key Accounts	Cohort Average
Customer-focused and treats customers as if they're valued	85%	89%	85%	84%
Deals professionally with customers' problems	88%	89%	88%	88%
Is pro-active in communicating changes and issues	87%	91%	87%	84%
Delivers on its service commitments to customers	89%	93%	88%	89%
Is 'easy to do business with'	85%	91%	85%	86%
Adapts well to changes in customer expectations	81%	86%	81%	81%

Base: total respondents with an opinion (note small sample size of n=11 for key accounts)



"What our customers say"

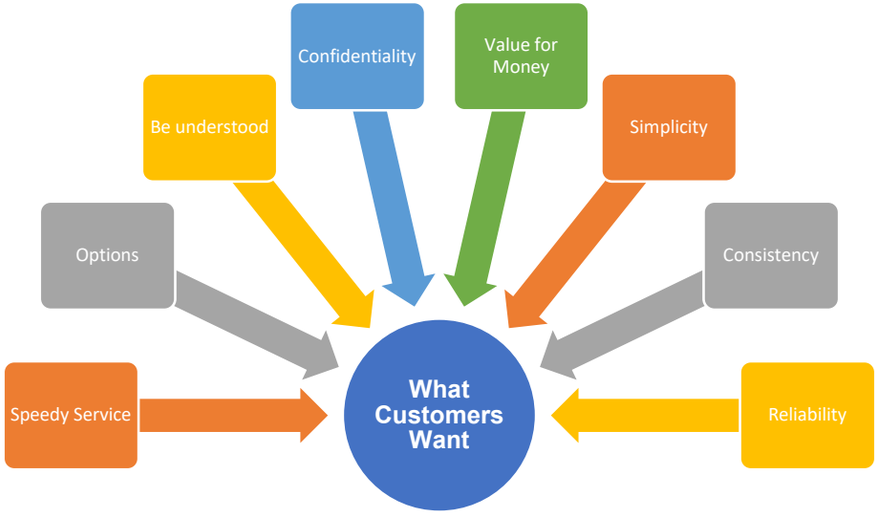
85%

"… Customer-focused and treats customers as if they're valued…"

Core Customer Service Quality Attributes Trended

Core Customer Service Quality Attributes	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
Customer-focused and treats customers as if they're valued	82%	85%	87%	89%	80%	85%	83%	84%
Deals professionally with customers' problems	87%	88%	90%	89%	85%	88%	87%	88%
Is pro-active in communicating changes and issues	83%	87%	85%	91%	83%	87%	83%	84%
Delivers on its service commitments to customers	84%	89%	85%	93%	83%	88%	86%	89%
Is 'easy to do business with'	83%	85%	87%	91%	81%	85%	85%	86%
Adapts well to changes in customer expectations	81%	81%	82%	86%	80%	81%	78%	81%

Base: total respondents with an opinion (note small sample sizes for key accounts)



"What our customers say"

85%

2022
82%

"… Customer-focused and treats customers as if they're valued…"

Credibility and Trust Rating

Demonstrating Credibility and Trust
Knowledge
The utility is seen as being knowledgeable about the services it provides, about what is happening in the industry, and how customers can reduce costs or create more value.
Integrity
The utility is seen as an organization that will act in the best interests of its customers and can be counted on to provide services and resolve problems in a professional manner.
Involvement
The utility is actively involved in the industry, in the community and in things that affect the customer.
Trust
The utility is an organization that can be trusted and is worthy of respect.
Overall Hydro Ottawa 86% (Cohort Average 86%)

Base: total respondents



	CREDIBILITY & TRUST							
	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
CREDIBILITY & TRUST	85%	86%	87%	90%	84%	86%	85%	86%

Base: total respondents (note small sample sizes for key accounts)

"What our customers say"

85%

"Keeps its promises to customers and the community…"

Credibility and Trust Rating & Sector Confidence

Customers are well served by the electricity system in Cohort Average	Hydro Ottawa	Key Accounts	Non-Key Accounts	Cohort Average
AGREE NET	**95%**	**100%**	**94%**	**95%**
Agree strongly	28%	36%	27%	32%
Agree somewhat	67%	64%	67%	63%
Disagree somewhat	5%	0%	6%	5%
Disagree strongly	0%	0%	0%	1%
DISAGREE NET	**5%**	**0%**	**6%**	**5%**

Base: total respondents with an opinion (note small sample size of n=11 for key accounts)

CREDIBILITY & TRUST SCORE	SECTOR CONFIDENCE					
TOTAL (n=116)	Agree NET (n=109)	Agree strongly (n=32)	Agree somewhat (n=77)	Disagree NET (n=6)	Disagree strongly (n=6)	Disagree somewhat (n=0)
86%	87%	95%	84%	70%	70%	--

Base: total respondents (note small sample sizes)

CREDIBILITY & TRUST SCORE	OUTAGE ISSUE		BILLING ISSUE		OTHER ISSUES		OUTAGE MOMENTUM		
Total (n=109)	Yes (n=50)	No (n=66)	Yes (n=17)	No (n=99)	Yes (n=8)	No (n=108)	Decreasing (n=8)	Same (n=87)	Increasing (n=12)
86%	84%	88%	83%	87%	90%	86%	95%	87%	83%

Base: total respondents (note small sample sizes)



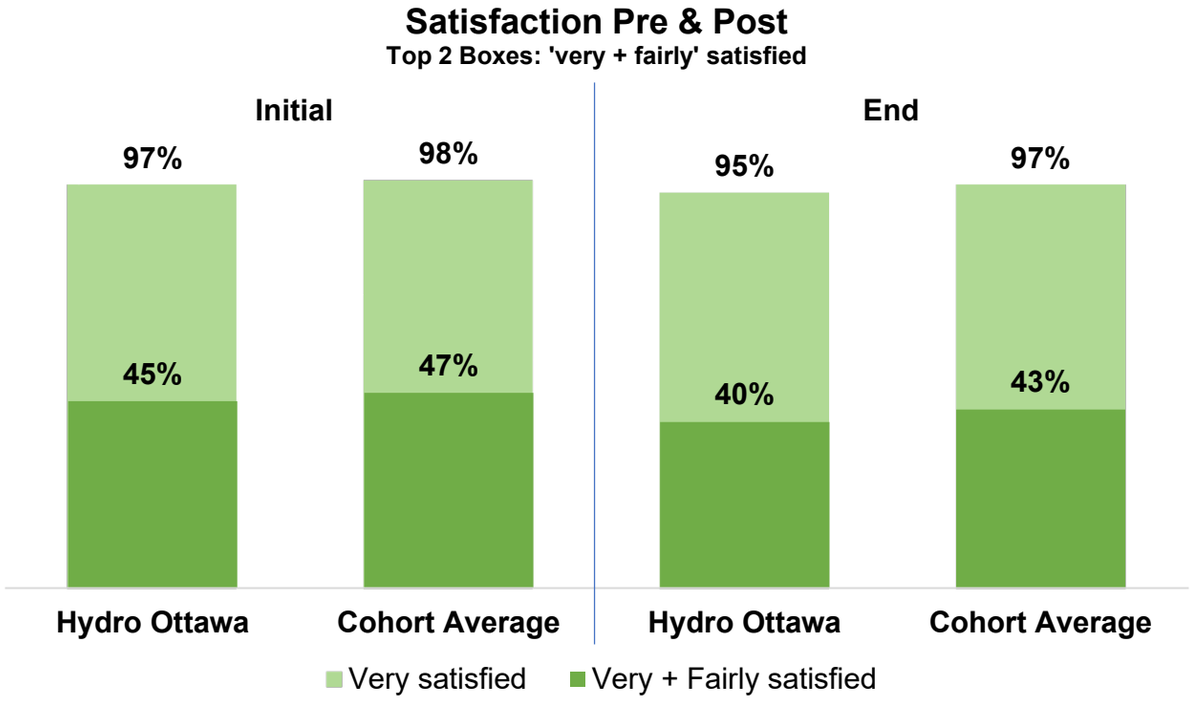
95%

"Customers are well served by the electricity system"

Customer Satisfaction

Satisfaction Pre & Post	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
Top 2 Boxes: 'very + fairly satisfied'	2022	2024	2022	2024	2022	2024	2022	2024
PRE: Initial Satisfaction Scores	94%	97%	100%	100%	92%	96%	95%	98%
POST: End of Interview	92%	95%	96%	100%	90%	94%	92%	97%

Base: total respondents with an opinion (note small sample sizes for key accounts)



"What our customers say"

PRE **97%** 2022 **94%**

"SATISFIED: Beginning of Interview"

"What our customers say"

POST **92%** 2022 **92%**

"SATISFIED: End of Interview"

Customer Commitment & Customer Advocacy

CUSTOMER COMMITMENT

"Is a company that you would like to continue to do business with"

Customer Commitment	Hydro Ottawa	Key Accounts	Non-Key Accounts	Cohort Average
Continue to do business with	88%	93%	87%	89%

Base: total respondents with an opinion (note small sample size of n=11 for key accounts)



CUSTOMER ADVOCACY

"Is a company that you would recommend to others"

Customer Advocacy	Hydro Ottawa	Key Accounts	Non-Key Accounts	Cohort Average
Recommend to others	85%	93%	84%	85%

Base: total respondents with an opinion (note small sample size of n=11 for key accounts)



Customer Commitment & Advocacy Trended

CUSTOMER COMMITMENT

"Is a company that you would like to continue to do business with"

	Customer Commitment							
	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
Continue to do business with	88%	88%	92%	93%	86%	87%	87%	89%

Base: total respondents with an opinion (note small sample sizes for key accounts)



CUSTOMER ADVOCACY

"Is a company that you would recommend to others"

	Customer Advocacy							
	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
Recommend to others	85%	85%	89%	93%	83%	84%	84%	85%

Base: total respondents with an opinion (note small sample sizes for key accounts)



Customer Loyalty (Affinity)



	Loyalty Factor			
	Hydro Ottawa	Key Accounts	Non-Key Accounts	Cohort Average
Secure	28%	45%	27%	30%
Favorable	34%	36%	33%	28%
Indifferent	29%	18%	30%	38%
At Risk	9%	0%	10%	4%

Base: total respondents (note small sample size of n=11 for key accounts)

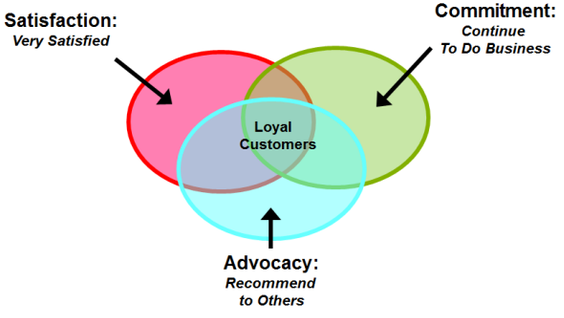
Secure customers are “very satisfied” overall with their local electric utility. They have a very high emotional connection with their utility and “definitely” would recommend their local utility.

Still favorable customers are “very satisfied” overall, “definitely” or “probably” would recommend their local utility and not switch if they could.

Indifferent customers are less satisfied overall than secure and still-favorable customers and less inclined to recommend their local utility or say they would not switch.

At risk customers, who are “very dissatisfied” with their electric utility, “definitely” would switch and “definitely” would not recommend it.

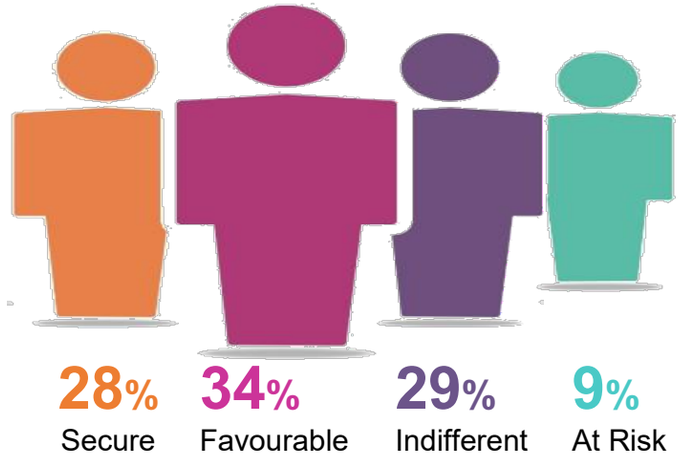
Customer Loyalty Model



Customer Loyalty (Affinity) Trended

Loyalty Factor	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
Secure	27%	28%	33%	45%	24%	27%	26%	30%
Favorable	30%	34%	33%	36%	29%	33%	27%	28%
Indifferent	41%	29%	33%	18%	44%	30%	42%	38%
At Risk	2%	9%	0%	0%	3%	10%	4%	4%

Base: total respondents (note small sample sizes for key accounts)



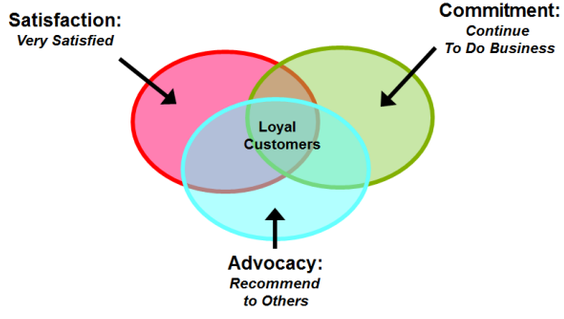
Secure customers are “very satisfied” overall with their local electric utility. They have a very high emotional connection with their utility and “definitely” would recommend their local utility.

Still favorable customers are “very satisfied” overall, “definitely” or “probably” would recommend their local utility and not switch if they could.

Indifferent customers are less satisfied overall than secure and still-favorable customers and less inclined to recommend their local utility or say they would not switch.

At risk customers, who are “very dissatisfied” with their electric utility, “definitely” would switch and “definitely” would not recommend it.

Customer Loyalty Model



Net Promoter Score & Net Supporter Score

Net Supporter Score (NSS) & Net Promoter Score (NPS)				
	Hydro Ottawa	Key Accounts	Non-Key Accounts	Cohort Average
Net Supporter Score (NSS)	20%	45%	17%	25%
Net Promoter Score (NPS)	45%	73%	42%	43%

Base: total respondents (note small sample size of n=11 for key accounts)

Net Supporter Score

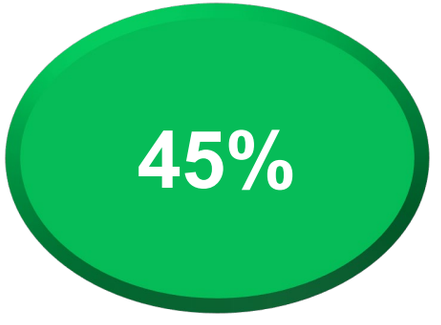


Net Supporter Score (NSS)

Score Interpretation:*

Opportunity	*<10%*
Good	*10-19%*
Very Good	*20+%*

Net Promoter Score



Net Promoter Score (NPS)

Score Interpretation:*

Opportunity	*<5%*
Good	*5-24%*
Very Good	*25+%*

**Note: Range bands represent 2024 data and can change year-to-year*

Net Promoter Score & Net Supporter Score

Net Supporter Score (NSS) & Net Promoter Score (NPS)	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
Net Supporter Score (NSS)	25%	20%	33%	45%	21%	17%	22%	25%
Net Promoter Score (NPS)	42%	45%	57%	73%	34%	42%	39%	43%

Base: total respondents (note small sample sizes for key accounts)

Net Supporter Score

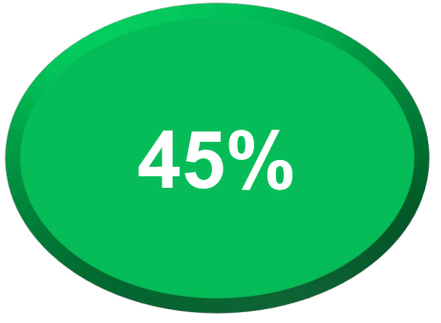


Net Supporter Score (NSS)

Score Interpretation:*

Opportunity	*<10%*
Good	*10-19%*
Very Good	*20+%*

Net Promoter Score



Net Promoter Score (NPS)

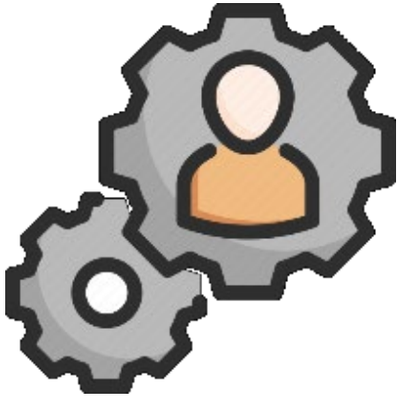
Score Interpretation:*

Opportunity	*<5%*
Good	*5-24%*
Very Good	*25+%*

**Note: Range bands represent 2024 data and can change year-to-year*

Customer Effort and Experience Score™ (CEES)

Two Drivers of Customer Effort:



1. How much effort it takes to get service:

- The amount of time and energy is used to interact with the LDC
- The ease or difficulty it is to do business with the LDC

2. How the experience makes a Customer feel:

- Happy, satisfied, content or
- Frustrated, dissatisfied, upset



High-effort experiences, i.e. ‘’difficult” and “time-consuming”

Low-effort experiences, i.e. ‘’fast” and “easy”



Customer Effort and Experience Score™ (CEES)

Customer Effort and Experience Score™ (CEES)	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
Opportunity Range* <15%								
Good Range* 15-34%					**30%**			
Very Good Range* 35+%	**36%**	**46%**	**42%**	**59%**		**44%**	**37%**	**43%**

Base: total respondents (note small sample sizes for key accounts)
*Note: range bands represent 2024 data and can change year-to-year

Hydro Ottawa has a **Customer Effort and Experience Score™ (CEES)** of **46%**. The Cohort Average for large commercial LDCs is **43%**.

The amount of time and energy used to interact with the LDC to get service or a problem solved. **Fast and easy is valued.**

The way a customer feels about an experience is even more important than the actual experience. **Perception is all there is.**

2022
36%

"What our customers say"

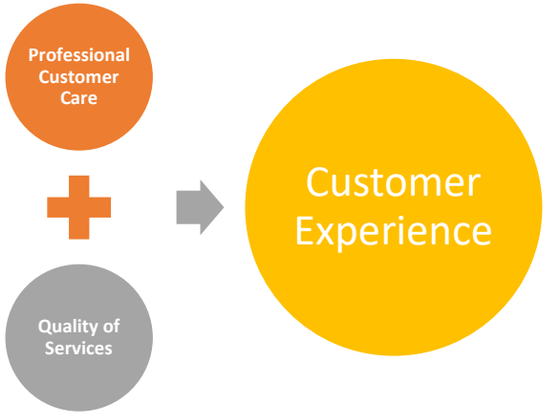
46%

"… Customer Effort and Experience Score™ (CEES)…"

CEPr: Customer Experience Performance Rating

CEPr: Customer Experience Performance Rating								
	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
CEPr	85%	86%	86%	89%	84%	86%	86%	86%

Base: total respondents (note small sample sizes for key accounts)



At the heart of the CEPr are 4 central questions:

1. *Are interactions with the organization professional and productive?*
2. *Is the organization 'easy to deal with'?*

+

3. *Does the organization effectively meet your needs?*
4. *Does the organization provide high quality services?*

2022
85%

"What our customers say"

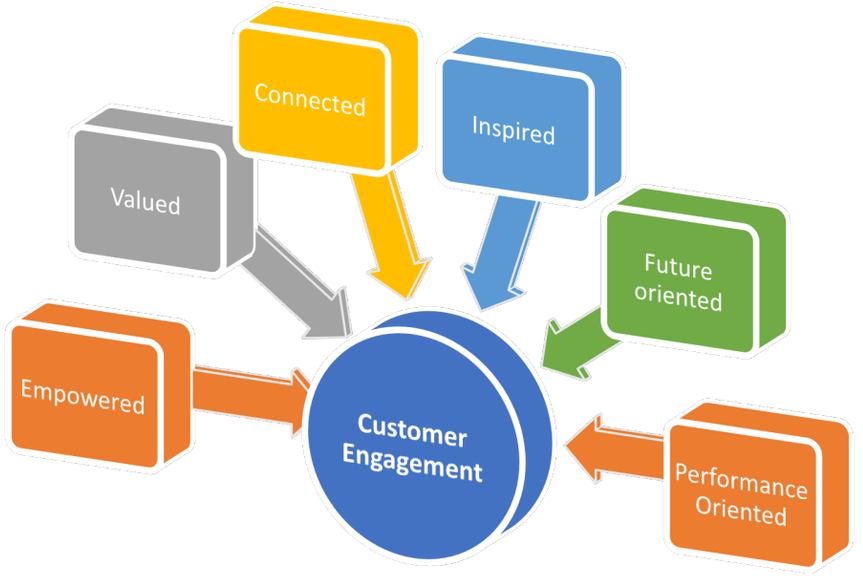
86%

"CEPr: Customer experience rating…"

CCEI: Customer Centric Engagement Index

CCEI: Customer Centric Engagement Index								
	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
CCEI	84%	86%	86%	90%	83%	85%	84%	85%

Base: total respondents (note small sample sizes for key accounts)



2022
84%

"What our customers say"

86%

"… CCEI: Customer Centric Engagement Index…"

Company Image / Brand Personality

85% Customer-focused

85% Keeps promises

81% Adapts well to changes

87% Socially responsible

84% Spends prudently

85% Easy to do business with

	Company Image / Brand Personality							
	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
Customer-focused	82%	85%	87%	89%	80%	85%	85%	84%
Keeps promises	83%	85%	85%	86%	81%	85%	82%	85%
Adapts well to change	81%	81%	82%	86%	80%	81%	78%	81%
Socially responsible	84%	87%	84%	90%	84%	87%	83%	85%
Spends prudently	79%	84%	81%	90%	79%	84%	80%	83%
Easy to do business with	83%	85%	87%	91%	81%	85%	85%	86%

Base: total respondents with an opinion (note small sample sizes for key accounts)

UtilityPULSE Report Card®: A

Hydro Ottawa's UtilityPULSE Report Card®					
	Category	Hydro Ottawa	Key Accounts	Non-Key Accounts	Cohort Average
1	**Customer Care**	B+	A	B+	B+
	Price and Value	B+	A	B	B+
	Customer Service	A	A	A	A
2	**Company Image**	A	A+	A	A
	Company Leadership	A	A	A	A
	Corporate Stewardship	A	A+	A	A
3	**Management Operations**	A	A	A	A
	Operational Effectiveness	A	A+	A	A
	Power Quality and Reliability	A	A	A	A
	OVERALL	A	A	A	A

"B+ … Customer Care"

"A … Company Image"

"A … Management Operations"

UtilityPULSE Report Card®: A

Hydro Ottawa's UtilityPULSE Report Card®								
	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
Category	2022	2024	2022	2024	2022	2024	2022	2024
1 Customer Care	A	B+	A	A	B+	B+	A	B+
Price and Value	B+	B+	B+	A	B+	B	B+	B+
Customer Service	A	A	A	A	A	A	A	A
2 Company Image	A	A	A	A+	A	A	A	A
Company Leadership	A	A	A	A	A	A	A	A
Corporate Stewardship	A	A	A	A+	A	A	A	A
3 Management Operations	A	A	A	A	A	A	A	A
Operational Effectiveness	A	A	A	A+	A	A	A	A
Power Quality and Reliability	A	A	A	A	A	A	A	A
OVERALL	A	A	A	A	A	A	A	A

"B+ … Customer Care"

"A … Company Image"

"A … Management Operations"

How Can We Improve?

One or two most services or changes that 'your local utility' could do to improve*	Hydro Ottawa
Better prices/lower prices	**12%**
Offer discounts/rebates/incentives	**8%**
Better power reliability/less power outages	**7%**
Get involved with green energy (e.g. wind, solar, etc.)	**6%**
Bury the power lines	**5%**
Improve infrastructure	**4%**
Restore power faster	**3%**
Good/like it/satisfied/keep up the good work	**3%**
Promote electric cars/have charging stations/installation of home EV charging wall/station	**3%**
Better information on outages when they occur	**3%**
Educate customers more/provide more education/information/awareness	**3%**

Base: total respondents
*Note: only top mentions are displayed



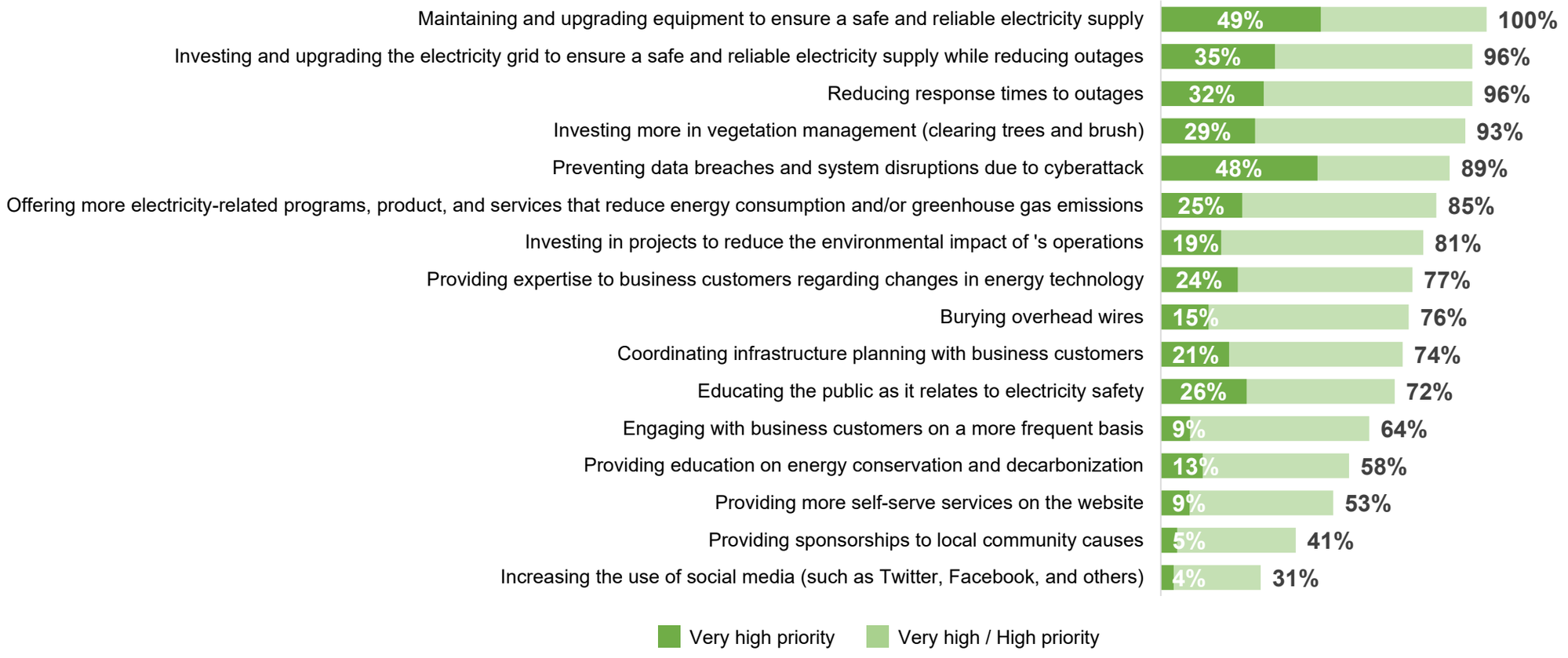
"What our customers say"

12%

"Better prices/lower rates…"

Priority Planning for Next 5 Years

Maintaining and upgrading equipment and investing in the grid are seen as the top priorities for Hydro Ottawa for the next 5 years.



Base: total respondents with an opinion

Priority Planning for Next 5 Years

Top 2 Boxes: 'very high + high priority'	Hydro Ottawa	Key Accounts	Non-Key Accounts
Maintaining and upgrading equipment to ensure a safe and reliable electricity supply	**100%**	100%	100%
Investing to ensure that more frequent and severe weather events will cause less damage to the distribution system	**96%**	100%	96%
Investing and upgrading the electricity grid to ensure a safe and reliable electricity supply while reducing outages	**96%**	100%	95%
Reducing response times to outages	**96%**	100%	95%
Investing more in vegetation management (clearing trees and brush)	**93%**	100%	93%
Preventing data breaches and system disruptions due to cyberattack	**89%**	89%	89%
Offering more electricity-related programs, product, and services that reduce energy consumption and/or greenhouse gas emissions	**85%**	82%	85%
Investing in projects to reduce the environmental impact of 's operations	**81%**	89%	80%
Providing expertise to business customers regarding changes in energy technology	**77%**	90%	76%
Burying overhead wires	**76%**	63%	77%
Coordinating infrastructure planning with business customers	**74%**	89%	73%
Educating the public as it relates to electricity safety	**72%**	67%	72%
Engaging with business customers on a more frequent basis	**64%**	60%	64%
Providing education on energy conservation and decarbonization	**58%**	78%	56%
Providing more self-serve services on the website	**53%**	50%	53%
Providing sponsorships to local community causes	**41%**	38%	42%
Increasing the use of social media (such as Twitter, Facebook, and others)	**31%**	20%	32%

Base: total respondents with an opinion (note small sample size of n=11 for key accounts)

Priority Planning for Next 5 Years Trend

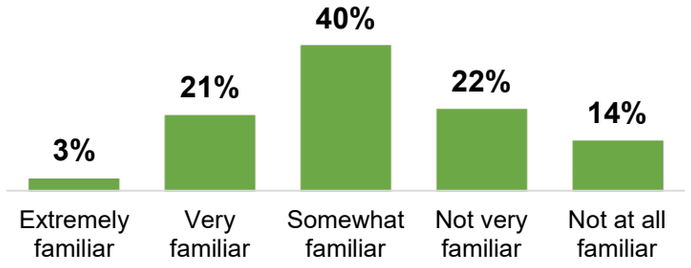
Top 2 Boxes: 'very high + high priority'	2022	2024
Maintaining and upgrading equipment to ensure a safe and reliable electricity supply	97%	100%
Investing to ensure that more frequent and severe weather events will cause less damage to the distribution system	100%	96%
Investing and upgrading the electricity grid to ensure a safe and reliable electricity supply while reducing outages	97%	96%
Reducing response times to outages	93%	96%
Investing more in vegetation management (clearing trees and brush)	84%	93%
Preventing data breaches and system disruptions due to cyberattack	96%	89%
Offering more electricity-related programs, product, and services that reduce energy consumption and/or greenhouse gas emissions	88%	85%
Investing in projects to reduce the environmental impact of 's operations	85%	81%
Providing expertise to business customers regarding changes in energy technology	74%	77%
Burying overhead wires	87%	76%
Coordinating infrastructure planning with business customers	85%	74%
Educating the public as it relates to electricity safety	73%	72%
Engaging with business customers on a more frequent basis	61%	64%
Providing education on energy conservation and decarbonization	76%	58%
Providing more self-serve services on the website	59%	53%
Providing sponsorships to local community causes	49%	41%
Increasing the use of social media (such as Twitter, Facebook, and others)	31%	31%

Base: total respondents with an opinion

Net-Zero Familiarity and Plans

Familiarity With Net-Zero Commitments

Base: total respondents with an opinion



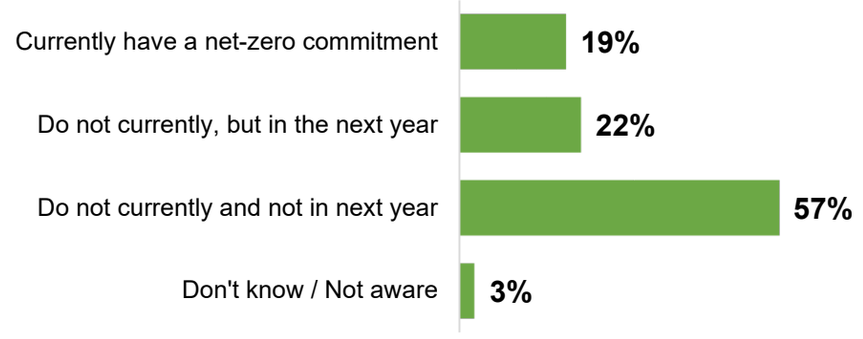
Top 2 Boxes: 'extremely + very familiar'	2022	Hydro Ottawa	Key Accounts	Non-Key Accounts
Familiar	**35%**	**24%**	**20%**	**25%**

Base: total respondents with an opinion (note small sample size of n=11 for key accounts)



Current Net-Zero Commitments

Base: total respondents with an opinion



	2022	Hydro Ottawa	Key Accounts	Non-Key Accounts
Current	**17%**	**19%**	**75%**	**12%**

Base: total respondents (note small sample size of n=11 for key accounts)

"What our customers say"

64% **"Aware of net-zero"**

19% **"Have a net-zero commitment"**

Barriers to Reducing Carbon Emissions

	2022	Hydro Ottawa	Key Accounts	Non-Key Accounts
High capital cost of equipment	62%	84%	80%	85%
High operating cost (i.e., cost of electricity)	53%	59%	60%	58%
Lack of knowledge or information (i.e: regarding overall approach or where to start)	33%	47%	20%	49%
Lack of expertise (internal or consultants) to design and select the best equipment	38%	40%	20%	42%
Uncertainty about regulations or standards	42%	33%	40%	32%
Availability of equipment due to supply chain issues	41%	24%	40%	23%
Don't plan on owning the asset for long enough	15%	21%	20%	21%
Don't see this as important	23%	17%	20%	17%
We are part of a franchise (e.g., they dictate)	0%	7%	0%	8%
Other	15%	9%	0%	9%
No barriers/challenges	9%	3%	0%	4%

Base: total respondents (note small sample size of n=11 for key accounts)

"What our customers say"

84%

"Say that high capital cost of equipment is a barrier to reducing carbon emission"

How Hydro Ottawa Could Encourage Net-Zero

	2022	Hydro Ottawa	Key Accounts	Non-Key Accounts
Incentives for equipment purchases and projects	**91%**	**88%**	**60%**	**91%**
Free expert advice and education	**82%**	**74%**	**60%**	**75%**
Ability to purchase equipment (e.g: EV charge)	**64%**	**71%**	**80%**	**70%**
Access to low-interest financing	**61%**	**71%**	**0%**	**77%**
Advocating for beneficial changes to regulation and policies	**62%**	**52%**	**80%**	**49%**
Energy and carbon consulting services	**73%**	**0%**	**0%**	**0%**
Other	**6%**	**5%**	**0%**	**6%**

Base: total respondents (note small sample size of n=11 for key accounts)



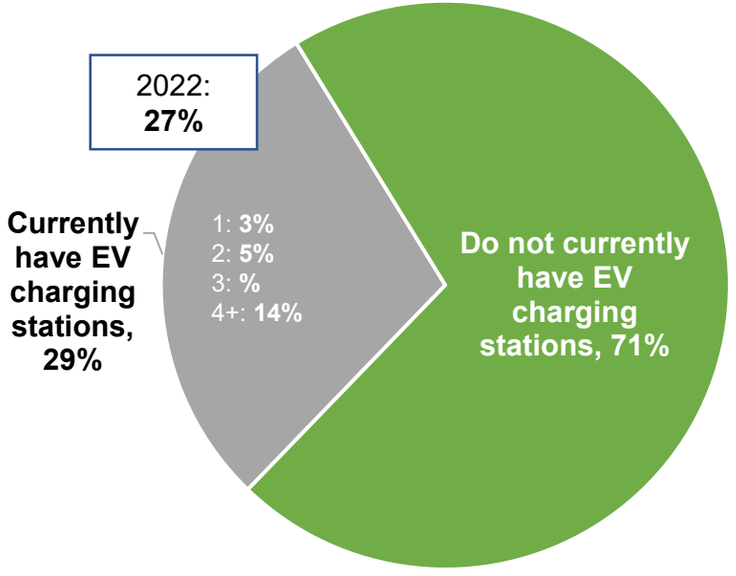
88%

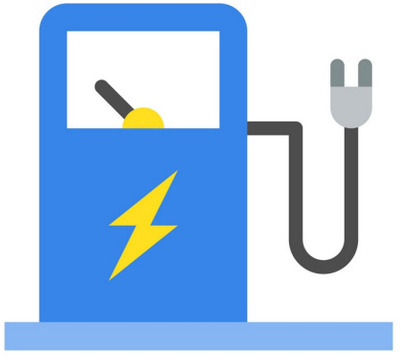
"Could be encouraged by incentives for equipment purchases and projects"

Charging Station Installation & Consideration

Does your organization currently have any electric vehicle charging stations?

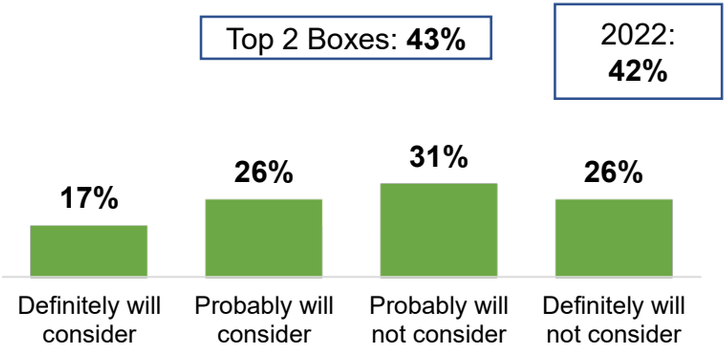
Base: total respondents





How likely is your organization to consider installing any electric vehicle charging stations in the next 12 months?

Base: total respondents with an opinion



48%

Would install 2 or more

Base: those who intend to install charging stations

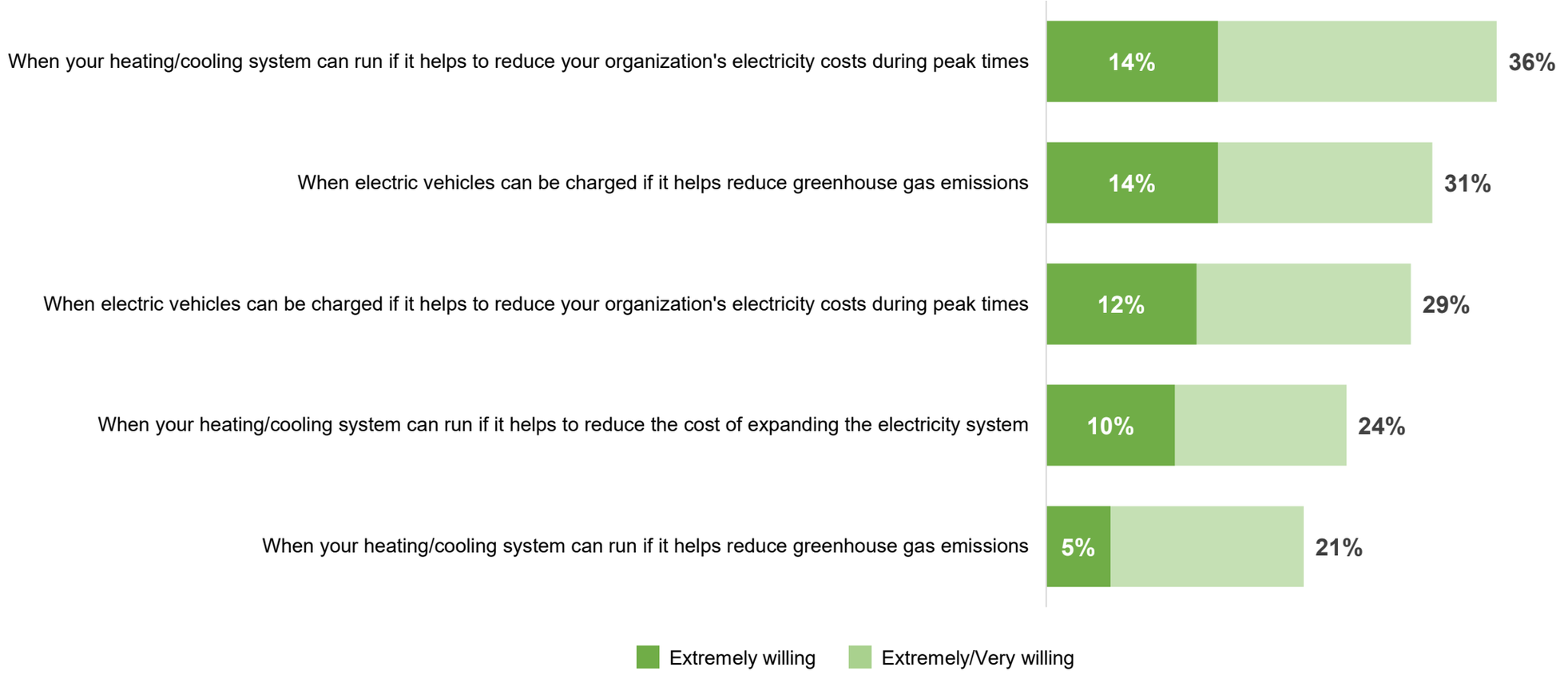
60%

Would use for company OR public use

Base: those who intend to install charging stations

Willingness to Give Hydro Ottawa Control

Large commercial business are generally reluctant to give control to Hydro Ottawa.



Base: total respondents with an opinion

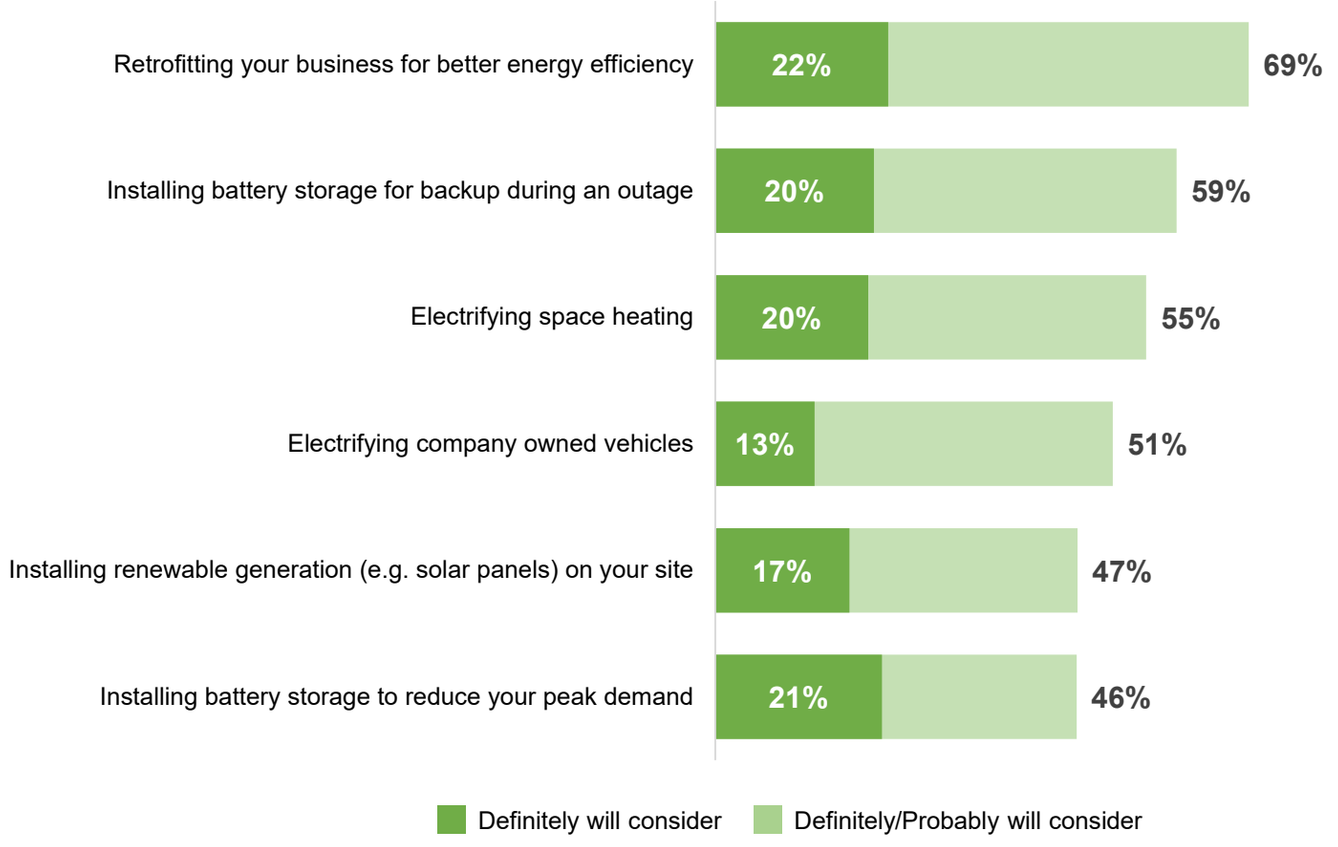
Willingness to Give Hydro Ottawa Control

Top 2 Boxes: 'extremely + very willing'	2022	Hydro Ottawa	Key Accounts	Non-Key Accounts
When your heating/cooling system can run if it helps to reduce your organization's electricity costs during peak times	22%	36%	33%	37%
When electric vehicles can be charged if it helps to reduce the cost of expanding the electricity system	30%	33%	83%	27%
When electric vehicles can be charged if it helps reduce greenhouse gas emissions	41%	31%	100%	23%
When electric vehicles can be charged if it helps to reduce your organization's electricity costs during peak times	26%	29%	83%	23%
When your heating/cooling system can run if it helps to reduce the cost of expanding the electricity system	19%	24%	33%	23%
When your heating/cooling system can run if it helps reduce greenhouse gas emissions	22%	21%	33%	19%

Base: total respondents with an opinion (note small sample size of n=11 for key accounts)

How Will Manage/Reduce Energy Usage in Workplace

Retrofitting for better energy efficiency is the number one way that large commercial businesses will manage/reduce energy in the workplace.



Base: total respondents with an opinion

How Will Manage/Reduce Energy Usage in Workplace

Top 2 Boxes: 'definitely + probably will consider'	2022	Hydro Ottawa	Key Accounts	Non-Key Accounts
Retrofitting your business for better energy efficiency	72%	69%	100%	65%
Installing building automation to manage energy consumption	70%	67%	80%	66%
Installing battery storage for backup during an outage	52%	59%	100%	55%
Electrifying space heating	47%	55%	80%	53%
Electrifying company owned vehicles	42%	51%	100%	45%
Installing renewable generation (e.g. solar panels) on your site	48%	47%	80%	43%
Installing battery storage to reduce your peak demand	47%	46%	80%	43%

Base: total respondents with an opinion (note small sample size of n=11 for key accounts)



Summary

- Large commercial customers are pleased with Hydro Ottawa's overall performance. While they lack some passion based on top box scores, none express any outright dissatisfaction overall.
- Encouragingly, some key metrics (core operational attributes, core customer service quality attributes, and cost/value attributes) improved for Hydro Ottawa in 2024 and are stronger than or in line with Cohort Average benchmarks. Customer particularly appreciate the overall operational performance and reliability, and this is a strong factor overall impressions. Delivering reliable electricity continues to be a core expectation for customers.
- While customers are satisfied with staff courtesy, continue to be vigilant when a customer has a problem, they want the opportunity to vent and have their concern resolved in a timely manner. Maintaining strong customer service levels remains critical;
- Customer effort, experience, and engagement are strongly linked to customer service impressions as well as Hydro Ottawa's ability to be proactive with communications.
- While customers are being increasingly pushed to self-serve and comfort with technology is growing, ultimately, customers still want the option to engage on their terms depending upon the need and requirement. The movement to digitization is welcomed, but utilities must proceed with caution. Too much, forced too soon may cause frustration. Customers want processes that solve problems or get service to be "fast", "easy", with "little effort".
- A majority believe that customers are well served by the electricity system in Cohort Average; credibility and trust ratings are notably lower among those who disagree with this notion, however.
- Credibility and trust ratings as well as overall satisfaction are also notably weaker among those who experienced various issues and those who believe that outages are increasing.
- Large commercial customers are willing to make small changes for the environment and in support of climate change (e.g., building retrofits), but larger changes – especially those with large price tags (like electric vehicle charging stations or electrifying company vehicles) – have not yet become normalized.
- While many have heard of net-zero, most have not committed any plans yet with high capital costs seen as the biggest barrier to reducing carbon emissions. Hydro Ottawa could encourage large commercial customers by offering Incentives for equipment purchases and projects or free expert advice and education.
- There isn't much willingness to give Hydro Ottawa control as to when electric vehicles can be charged or when heating/cooling systems can run.



UtilityPULSE

Electric Utility Customer Satisfaction Survey

NUMBERS at a Glance

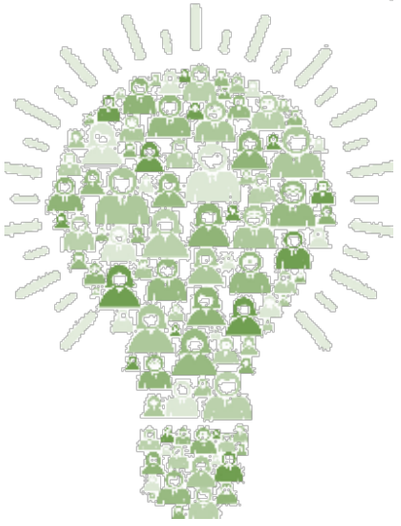


	Hydro Ottawa 2024	Key Accounts 2024	Non-Key Accounts 2024	Cohort Average 2024
Customer Satisfaction: Initial	**97%**	**100%**	**96%**	**98%**
Customer Satisfaction: Post	**95%**	**100%**	**94%**	**97%**
Customer Advocacy	**85%**	**93%**	**84%**	**85%**
Customer Commitment	**88%**	**93%**	**87%**	**89%**
Customer Experience Performance Rating (CEPr)	**86%**	**89%**	**86%**	**86%**
Customer Centric Engagement Index (CCEI)	**86%**	**90%**	**85%**	**85%**
Credibility & Trust Index	**86%**	**90%**	**86%**	**86%**
UtilityPULSE Report Card©	**A**	**A**	**A**	**A**

NUMBERS at a Glance



	Hydro Ottawa		Key Accounts		Non-Key Accounts		Cohort Average	
	2022	2024	2022	2024	2022	2024	2022	2024
Customer Satisfaction: Initial	94%	97%	100%	100%	92%	96%	95%	98%
Customer Satisfaction: Post	92%	95%	96%	100%	90%	94%	92%	97%
Customer Advocacy	85%	85%	89%	93%	83%	84%	84%	85%
Customer Commitment	88%	88%	92%	93%	86%	87%	87%	89%
Customer Experience Performance Rating (CEPr)	85%	86%	86%	89%	84%	86%	86%	86%
Customer Centric Engagement Index (CCEI)	84%	86%	86%	90%	83%	85%	84%	85%
Credibility & Trust Index	85%	86%	87%	90%	84%	86%	85%	86%
UtilityPULSE Report Card©	A	A	A	A	A	A	A	A



Electric Utility Customer Satisfaction Survey

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Email: david@utilitypulse.com

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-8

EVIDENCE REFERENCE:

Reference: Exhibit 2, Tab 5, Schedule 1, (DSP - NWS)

QUESTION(S):

a) Please provide all underlying documentation relating to NWS assessments Hydro Ottawa has undertaken with respect to each project during the rate term over $2 million. If it is not clear from that underlying documentation, please indicate each of the NWSs explored for each project and why each was rules out.

b) Has Hydro Ottawa already completed a full NWS assessment for each project over $2 million planned during the rate term? If not, please list the projects for which an NWS assessment has not yet been completed and the value of each.

c) Please provide a table with a row for each project over $2 million and columns to indicate whether each of the following NWSs was considered: demand response, energy efficiency, storage, solar/storage, and a combination of those solutions. Please also include a column to indicate whether one or more third party NWS developers or aggregators were approached to assess whether they could meet the distribution needs at a lower cost.

d) In assessing NWSs, did Hydro Ottawa approach one or more third party NWS developers or aggregators were approached to assess whether they could meet the distribution needs at a lower cost? If yes, please indicate which ones were approached and provide the documentation provided to them (e.g. a request for proposal or equivalent).

e) For each, please also indicate, if Hydro Ottawa decides that a NWS would be appropriate during the rate period, will it request OEB approval or do so via its existing funding envelopes?

RESPONSE(S):

Hydro Ottawa's NWS Assessment has endeavored to follow the OEB's Non-Wires Solutions Guidelines For Electricity Distributors and meet the intent of the OEB's Benefit-Cost Analysis (BCA) Framework that comes into effect for rate applications filed starting 2026 to the fullest extent possible, given the timing of the release of the BCA framework and Hydro Ottawa's application.

a) Hydro Ottawa leveraged the Non-Wires Solution (NWS) assessment process outlined in Section 9.2.1 of Schedule 2-5-4 - Asset Management Process, in accordance with the BCA Framework for Addressing Electricity System Needs (EB-2023-0125), for the pre-assessment to identify whether there is a reasonable expectation that an NWS may be a viable approach to meeting the identified need. This pre-assessment was conducted for projects with an expected capital cost exceeding $2M within each of the Planning Regions, as described in section 9.1.4. This pre-assessment identified the viability of NWS in addressing needs within 5 planning regions (note that West & Core 13kV were assessed together due to the interconnected nature of the system), as outlined in 9.2.3 of Schedule 2-5-4 - Asset Management Process, and shown in Table A below. Table A also indicates the scenario reference from Section 9.2.1 of Scheduled 2-5-4 - Asset Management Process that applies to the region:

- Scenario 1: Stations Requiring Capacity Risk Mitigation in the Near Term
- Scenario 2: Distribution Connected Stations with Minor Overloads
- Scenario 3: Planning Regions Overloaded by 2030 / Transmission Constrained

1

Table A - NWS Pre-Assessment Results

Voltage System	Planning Region	NWS Pre-Assessment Criteria						Planned "Wires" Investments	NWS Pre-Assessment Scenario?			NWS Pre-Assessment Scenario Pass?
		Immediate Capacity Need?	Dist. Connect Station?	Overload <7.5MVA by 2030	Limited Connections?	IRRP Forecast overload by 2030?	Trans. Constraints?		Scenario 1	Scenario 2	Scenario 3	
44kV System	44kV							South March TS Hydro Road				
28kV System	South 28kV							Greenbank MTS				
	South-East 28kV							Piperville				
	East 28kV							Mer Bleue Cyrville				
	West 28kV		✓	✓	✓			Richmond South		✓		✓
	West 28kV (North)	✓					✓	New Kanata North	✓		✓	✓
8kV System	Nepean 8kV		✓					Greenbank MTS (Voltage Conversions)				
	Bells Corners / Bayshore 8kV		✓	✓	✓			None		✓		✓
	Barrhaven 8kV		✓					Greenbank MTS (Voltage Conversions)				
	West 8kV							Distribution Transfers				

Voltage System	Planning Region	NWS Pre-Assessment Criteria						Planned "Wires" Investments	NWS Pre-Assessment Scenario?			NWS Pre-Assessment Scenario Pass?
		Immediate Capacity Need?	Dist. Connect Station?	Overload <7.5MVA by 2030	Limited Connections?	IRRP Forecast overload by 2030?	Trans. Constraints?		Scenario 1	Scenario 2	Scenario 3	
	Casselman 8kV		✓	✓	✓			Casselman BESS		✓		✓
	East 8kV		✓					Cyrville Mer Bleue (Voltage Conversions)				
12kV System	12 kV		✓					Voltage Conversions				
13kV System	West 13kV*	✓				✓	✓	Carling Cable	✓		✓	✓
	Core 13kV*	✓				✓	✓	Riverdale TS Switchgear Slater Transformer Lisgar Transformer & Cable King Edward Cable				
	East 13kV						✓	Russel Transformer Albion Transformer				
4kV System	Central 4kV		✓					Voltage Conversion: Fisher, Henderson Upgrade Bronson				

Voltage System	Planning Region	NWS Pre-Assessment Criteria						Planned "Wires" Investments	NWS Pre-Assessment Scenario?			NWS Pre-Assessment Scenario Pass?
		Immediate Capacity Need?	Dist. Connect Station?	Overload <7.5MVA by 2030	Limited Connections?	IRRP Forecast overload by 2030?	Trans. Constraints?		Scenario 1	Scenario 2	Scenario 3	
	East 4kV		✓					Voltage Conversion: Dagmar, Vaughan, Church				

1

b) Hydro Ottawa completed a NWS assessment for projects that passed the Pre-Assessment screening in Table A above. For details about the NWS assessment for proposed BESS projects refer to part (d) of the response to interrogatory 2-Staff-111. For details about the NWS assessment for the Non-Wires Customer Solutions Program refer to part (b) of the response to interrogatory 2-Staff-67.

c) Please see Table A for a list of projects that passed the Pre-Screening assessment. For the BESS solutions, refer to part (f)(ii) of the response to interrogatory 2-Staff-111. As outlined in Section 9.2.2.1 of Schedule 2-5-4 - Asset Management Process, the Non-Wires Customer Solutions Program considers all listed approaches when evaluating the potential application of NWS: demand response, energy efficiency, storage, and solar/storage. Hydro Ottawa intends to work with third party developers or aggregators to participate in this programming, and key stakeholders will be engaged at the appropriate time during program design or deployment. Specifically, Hydro Ottawa will be engaging with customers on opportunities related to the Commercial Battery Storage Program.

d) Refer to the response provided in part (c) above.

e) Hydro Ottawa will not pursue additional approvals for the NWS presently outlined within the application. Should new NWS opportunities arise during the rate term:

- Where the BCA framework supports a shift from a capital investment to a NWS Hydro Ottawa would implement the NWS with no further approvals.
- Where new capital related projects are required that are not outlined within Hydro Ottawa's current plan, a separate application may be required depending on the size and scope of the project.
- Hydro Ottawa will also adhere to any framework approved as part of the Stream 2[1] consultation from the IESO-LDC Regulatory Working Group.

[1]IESO-LDC DSM Regulatory Working Group, *Proposed Framework for Implementation of Local eDSM*, EB-2025-0156, (May 2025).

Hydro Ottawa may elect to seek specific approvals at that time. Please refer to part (a) of the response to interrogatory 1-Staff-18.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-9

EVIDENCE REFERENCE:

Reference: Exhibit 2, Tab 5, Schedule 1, (DSP – system access)

QUESTION(S):

a) These questions concern the proposed system access spending, including the spending to connect new housing developments. Please provide a table showing the average connection costs per lot for residential developments. Please provide a breakdown showing the average costs for developments with and without gas heating. Please include the full costs, including the amounts that will be included in the rate base and the amounts that will be covered by the developer. Please provide the information based on the previous 5 years of connections. If that is not feasible, please select a feasible timeframe.

b) Please provide a figure comparing the results in (a) to the figures on page 14 of the following PwC report prepared for the OEB: https://www.oeb.ca/sites/default/files/uploads/documents/reports/2024-10/Report-Back-to-Minister-on-System-Expansion-for-Housing-Developments-20241021.pdf

c) Please discuss additional steps that Hydro Ottawa could take to fulfill the Ontario Government's goal of reducing the cost of electrical connections for housing developments. Please address, in particular, steps that could be taken to reduce the costs of all-electric developments (i.e. those without gas heating).

RESPONSE(S):

a) Hydro Ottawa has not differentiated between gas-heated and fully electric communities in its data collection. Within Hydro Ottawa's knowledge, no subdivisions in the Hydro Ottawa service

territory have been constructed with fully electric heating. As a result, a cost breakdown for developments with and without gas heating cannot be provided. Table A below provides the average cost per lot for residential developments, inclusive of the gross costs, contributions, and net costs.

Table A –Residential Subdivision Cost per Connection 2021-2030

	Historical Years				Bridge Year	Test Years				
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Residential Subdivision Cost Per Connection (Gross)	$ 1,873	$ 1,995	$ 2,284	$ 2,446	$ 2,162	$ 2,180	$ 2,283	$ 2,366	$ 2,488	$ 2,585
Contributions	$ (542)	$ (727)	$ (818)	$ (1,421)	$ (875)	$ (894)	$ (818)	$ (847)	$ (891)	$ (926)
Total	$ 1,331	$ 1,268	$ 1,466	$ 1,024	$ 1,288	$ 1,286	$ 1,466	$ 1,519	$ 1,597	$ 1,660

b) Hydro Ottawa is unaware of the exact methodology used in the PwC report and is therefore unable to provide a figure that accurately compares Hydro Ottawa's average connection costs per unit and the figures in the PwC report.

c) As per Section 3.12 in Schedule 9-1-3 - Group 2 Accounts, Hydro Ottawa is responding to amendments in the Distribution System Code that extend the connection horizon to a maximum of 15 years for qualifying housing developments and extend the revenue horizon to 40 years for residential customers. These changes could potentially reduce upfront capital contributions required from developers.

Hydro Ottawa engages with developers to streamline project intake and communication, as outlined in Section 2.5.2 of Schedule 1-4-1 - Customer Engagement Ongoing. Through forums and direct meetings, Hydro Ottawa also collaborates with developers on capacity needs, especially with respect to any considerations they may have towards shifting to electric space

and water heating and incorporating energy-efficient designs. With developers reducing the electricity demand of new homes through energy-efficient building designs and incorporating clean energy technologies such as high-efficiency heat pumps, Hydro Ottawa can lower the capacity needed for grid connections, potentially reducing the need and therefore costs related to system expansions.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-10

EVIDENCE REFERENCE:

Reference: Exhibit 2, Tab 5, Schedule 1, (DSP – DER connection capacity)

QUESTION(S):

a) Please provide the approximate number and percent of Hydro Ottawa customers that are unable to connect a distributed energy resource (i.e. DERs or BTM generation) due to electricity system constraints (e.g. thermal or short circuit constraints). This can be estimated, for instance, by determining the number of customers on restricted/constrained feeders. If possible, please provide the number that are unable to connect due to (i) thermal constraints, (ii) short circuit constraints, or (iii) both.

b) Please provide the approximate number and percent of customers for whom a technical restriction (e.g. short circuit or thermal constraint) on connecting a DER will be removed due to investments that Hydro Ottawa is planning.

c) Please describe the measures that Hydro Ottawa is undertaking to reduce restrictions on its customers connecting DERs.

d) Does Hydro Ottawa offer Flexible Interconnection Capacity Solutions?[1] If not, does it intend to do so in the future, and if yes, when?

e) Does Hydro Ottawa have DER Management Systems (DERMS) in place to cost effectively monitor and, where appropriate, control DERs? If not, does it intend to do so in the future, and if yes, when?

f) Does Hydro Ottawa have DER Management Systems (DERMS) in place to cost effectively monitor and, where appropriate, control micro-generation and small DERs (e.g. utilizing less

[1] For a description of Flexible Interconnection Capacity Solutions and their benefits see https://restservice.epri.com/publicdownload/000000003002022432/0/Product.

expensive solutions such as PCS and TCP/IP)? If not, does it intend to do so in the future, and if yes, when?

RESPONSE(S):

a) Hydro Ottawa currently has 16,587 customers, representing 4.6% of the customer base, connected to feeders with short circuit constraints. 2,471 customers, or 0.7% of the total, are connected to thermally constrained feeders. A breakdown of the number of customers connected to restricted feeders, including the type of restriction by feeder, is provided in Table 37 of Section 9.3.3 in Schedule 2-5-4 - Asset Management Process.

It is important to note, however, that Hydro Ottawa has successfully facilitated all DER connection requests to date, ensuring no proposals have been declined. When a DER connection is proposed on a restricted feeder or station, Hydro Ottawa works with the proponent to facilitate alternative solutions. This approach has enabled the successful integration of DERs even in constrained grid locations, demonstrating Hydro Ottawa's commitment to supporting renewable energy initiatives while maintaining system reliability and safety.

b) Thermal Constraints: Hydro Ottawa plans to remove 100% of existing thermal constraints by the end of 2025 when the replacement of the T1 transformer at Lisgar TS is completed.

Short-Circuit Constraints: Hydro Ottawa is currently assessing the feasibility of using fast-switching protective devices to eliminate 100% of existing short-circuit constraints. If this solution is successful and implemented, Hydro Ottawa anticipates that all current short-circuit limitations will be removed by 2030.

Hydro Ottawa anticipates that additional constraints (short circuit/thermal) will arise as load growth materializes and that Hydro Ottawa will work to reduce such limitations as they occur. In conjunction, Hydro Ottawa will continue to provide alternative connection options to DER customers normally fed from constrained feeders in the interim. Please refer to Section 9.3.4 of

Schedule 2-5-4 - Asset Management Process for more details on investments Hydro Ottawa is planning to remove restrictions to connect DERs.

c) Please refer to the response (b) above and Section 9.3.4 of Schedule 2-5-4 - Asset Management Process for more details on measures being taken by Hydro Ottawa to reduce restrictions.

d) Hydro Ottawa has not issued any connections under the Flexible Hosting Capacity (FHC) model outlined in the OEB's Distributed Energy Resources Connection Procedures (DERCP) Version 2.0.[2] As discussed in section 5.8 of DERCP Version 2.0, Hydro Ottawa can currently offer a FHC arrangement to a proposed DER when the entire requested capacity is not available in the normal capacity allocation process. To ensure there are no adverse effects to the system or other customers, Hydro Ottawa would need to work with each individual customer to ensure appropriate protection and control systems are in place. At this time, a Distributed Energy Resource Management System (DERMS) is not in place to support dynamic hosting adjustments; however, as part of Hydro Ottawa's grid modernization strategy, a DERMS is proposed during this rate term. Please see the response to part (e) below for details. Refer to Section 3.4.2 of Schedule 2-5-4 - Asset Management Process for Hydro Ottawa's Grid Modernization Strategy and Attachment 2-Staff-57(A) of Hydro Ottawa's response to interrogatory 2-Staff-57 for the latest copy of the strategy.

e) Hydro Ottawa has not yet implemented a DERMS. Currently, Hydro Ottawa monitors and controls DERs through the Supervisory Control and Data Acquisition (SCADA) system. For information regarding Hydro Ottawa's plans for DERMS implementation, please refer to Section 7 of Schedule 2-5-8 - System Service Investments. Further details with respect to how Hydro Ottawa intends to leverage a DERMS can be found within the details for the ODERA Project beginning on page 98 of Schedule 2-5-8 - System Service Investments.

[2] Ontario Energy Board, *Distributed Energy Resources Connection Procedures* (Version 2 - January 27, 2025).

f) Please see the response to part (e) above, which is also applicable to micro-generation. Hydro Ottawa is proposing a number of Non-wires customer solutions programs over the rate period, providing a variety of opportunities for participation for all sizes of DERs. Please also refer to Section 9.2.2.1 of Schedule 2-5-4 - Asset Management Process for further details.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-11

EVIDENCE REFERENCE:

Reference: Exhibit 2, Tab 5, Schedule 1, (DSP – general plant, buildings)

QUESTION(S):

a) Whenever Hydro Ottawa is replacing fossil fuel heating equipment, it is replacing it with electric heat pumps (per EB-2023-0195, 1B-ED-3). Is Hydro Ottawa planning and committing to do the same? If yes, the remaining parts in this question need not be answered.
b) Please provide a table listing each building owned by Hydro Ottawa, how they are heated, their approximate annual gas consumption, the age of any fossil fuel heating equipment, the approximate life left in any fossil fuel heating equipment, the annual fossil fuel costs (all inclusive, including commodity, delivery, and fixed charges), and the annual incremental electricity costs that would arise were the fossil fuel equipment with an appropriate electric heat pump.
c) Please provide a table showing all fossil fuel heating equipment in its buildings that is at the end of its expected useful life or will reach the end of its useful life within the rate term. For each piece of equipment, please indicate whether Hydro Ottawa expects to replace it with fossil fuel or electric equipment, and why.

RESPONSE(S):

a) Hydro Ottawa assumes the first reference in part a) is meant as a reference to a Toronto Hydro commitment. Please note, Hydro Ottawa has not reviewed the Toronto Hydro commitment.

Hydro Ottawa is planning and committed to replacing any aging fossil fuel heating equipment with electric heat pumps as equipment ages or failures occur.

b) As stated in part a) of this question, a response to parts b) and c) is not required given Hydro Ottawa's affirmative response to part a).

c) As stated in part a) of the question, a response to parts b) and c) is not required given Hydro Ottawa's affirmative response to part a).

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-12

EVIDENCE REFERENCE:

Reference: Exhibit 2, Tab 5, Schedule 1, (DSP – asset sizing)

QUESTION(S):

a) How many kms of conductors does Hydro Ottawa expect to replace or install in each of the rate term years? How many transformers does Hydro Ottawa expect to purchase and install over the rate term? What is the average physical lifetime of the conductors and transformers that Hydro Ottawa is currently installing?

b) How will Hydro Ottawa ensure that the conductors and transformers that it will install over the rate term will not need to be replaced before the end of their lives due to demand growth outstripping their capacity?

c) If all homes heated with gas were to be electrified by 2050, approximately what percent of the conductors and transformers that Hydro Ottawa expects to install over the rate term would need to be replaced by 2050 to meet the increased demand (with all other aspects of Hydro Ottawa's load forecast remaining unchanged)? Please provide as much of a specific answer to this question as possible and make and state assumptions as necessary. For instance, Hydro Ottawa could assume that homes are electrified via 50% air-source and 50% ground-source heat pumps.

d) If all transportation were to be electrified by 2050, approximately what percent of the conductors and transformers that Hydro Ottawa expects to install over the rate term would need to be replaced by 2050 to meet the increased demand (with all other aspects of Hydro Ottawa's load forecast remaining unchanged)? Please provide as much of a specific answer to this question as possible and make and state assumptions as necessary.

RESPONSE(S):

a) For details on the quantity of underground cable and transformers to be replaced through the Underground Asset Renewal Program, within the System Renewal Investment Category, please refer to Table 16 in Section 4.5 of Schedule 2-5-7 - System Renewal Investments.

For details on the number of overhead transformers anticipated to be replaced through the Overhead Distribution Asset Renewal Program, within the System Renewal Investment Category, please refer to Table 10 in Section 3.5 of Schedule 2-5-7 - System Renewal Investments.

For the typical useful life of assets, please refer to Table 25 in Section 8.1 of Schedule 2-5-4 - Asset Management Process.

Hydro Ottawa does not report on overhead conductor replacement or useful life, and hence, this information cannot be furnished.

b) In 2019, Hydro Ottawa updated standards for underground residential transformer and service wire sizes to account for the impacts of electrification, specifically looking to accommodate a Level 2 charger at every home. The standard limits the number of residential customer connections per transformer to account for future growth. The residential subdivision's electrical supply is then designed to serve the required number of transformers to support the customer connections. By accounting for future electrification at the residential transformer level, Hydro Ottawa is effectively managing the anticipated load increases up to the feeder and point of supply.

Sizing for overhead residential transformers and conductors is assessed by request, on a case-by-case basis during the design process, considering the application of standards with current loading (where applicable) and potential for future load growth, ensuring its adequacy for the life of the asset.

When an asset is replaced due to capacity limitations, Hydro Ottawa conducts testing to assess its condition and determine if it can be returned to stock for future use. To avoid premature replacement, Hydro Ottawa, through its Asset Management process detailed in Section 5 of Schedule 2-5-4 - Asset Management Process, ensures that all assets go through the required testing, inspection and maintenance.

c) As outlined in response to part (b) above, any conductors and transformers installed post the 2019 standard update are sized appropriately to meet the increased demand outlined in this scenario. Therefore, Hydro Ottawa does not anticipate needing to replace them prematurely due to capacity limitations.

d) As outlined in response to part (b) above, any conductors and transformers installed post the 2019 standard update are sized appropriately to meet the increased demand outlined in this scenario. Therefore, Hydro Ottawa does not anticipate needing to replace them prematurely due to capacity limitations.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-13

EVIDENCE REFERENCE:

Reference: Exhibit 2, Tab 5, Schedule 1, (DSP, system access)

QUESTION(S):

a) Please provide a table showing the number of residential service upgrades in the past five years and a forecast for the rate term. Please provide columns for the total costs for service upgrades, the proportion covered by the homeowners whose service is being increased, and the proportion covered by ratepayers. Please include both capital costs (e.g. new conductors or transformers) and O&M costs (e.g. costs to de-energize and energize the home).
b) Please discuss the feasibility and potential savings from offering customers seeking a service upgrade an alternative option via a load sharing device (e.g. circuit pauser or smart panel).[1]
c) Please discuss the feasibility and potential savings from offering customers seeking a service upgrade an alternative option via a SPAN Edge.[2]
d) If Hydro Ottawa has not considered the steps outlined in (b) and (c), will it commit to doing so? If yes, by when?
e) If customers are able to avoid a service upgrade, how does that impact the need for potential upstream capacity increases? For example, can upgrades to street-level transformers that may be needed if multiple homes upgrade their service be avoided if those service upgrades are avoided via the technologies noted above? What, if any, electricity infrastructure is built based on the size of residential services?

RESPONSE(S):

[1] https://www.passivehousecanada.com/wp-content/uploads/2023/08/20231026-Electrification-without-a-service-upgrade-report.pdf
[2] https://www.span.io/blog/span-expands-beyond-smart-electrical-panels-creating-new-category-of-at-the-meter-products

a) Please see Table A below for the quantity of residential upgrades, gross cost for service upgrades, customer contributions, and net costs for 2021-2030. Please note the OM&A costs associated with Table A include all costs associated with Hydro Ottawa's "Service Desk" work for third parties, which includes isolations/reconnects, but also encompasses infill development, Service Upgrades, and special Services.

Table A – Residential Service Upgrade Costs 2021-2030 ($'000s)

	Historical Years				Bridge Year	Test Years				
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Residential Service Upgrade Costs (Gross)	$ 1,304	$ 1,883	$ 1,421	$ 2,076	$ 2,252	$ 2,453	$ 2,483	$ 2,218	$ 2,222	$ 2,407
Customer Contributions	$ (863)	$ (1,830)	$ (1,178)	$ (2,096)	$ (2,231)	$ (2,060)	$ (2,086)	$ (1,863)	$ (1,866)	$ (2,022)
Total	$ 441	$ 54	$ 242	$ (20)	$ 22	$ 392	$ 397	$ 355	$ 355	$ 385
Number of Upgrades	3649	3949	4345	2692	3710	3762	3814	3866	3918	3969
OM&A Costs	$ 1,996	$ 1,594	$ 1,371	$ 3,361	$ 1,531	$ 1,990	$ 2,039	$ 2,188	$ 2,273	$ 2,352

b) Emerging behind-the-meter technologies offer potential alternatives to traditional electrical service upgrades through efficient load management. For example some projects (as referenced in the question) have demonstrated that using intelligent load management devices to optimize electrification and minimize potential infrastructure improvement costs, allows homes to maintain original service sizes (e.g., 100-amp) as an alternative to increasing the service size (e.g. to 200-amps).

These behind-the-meter solutions are gaining feasibility as they allow for intelligent and dynamic management of a building's electrical load. They enable the safe addition of new high-demand loads (like EV chargers or heat pumps) by actively monitoring electricity use and dynamically managing power to appliances (e.g. temporarily reducing power to a lower-priority appliance when the demand nears limits).

The main saving comes from avoiding service upgrade costs for both customer-side (main breaker, wiring, meter base) and utility-side (transformers, poles, feeder expansions) infrastructure. By leveraging these technologies, both the customer and the utility could see potential cost avoidance, however Hydro Ottawa has not analyzed the potential savings of these devices.

Hydro Ottawa maintains an open stance and will actively explore the feasibility of these devices (and similar solutions) as they become more prevalent in the market.

c) Please refer to the response to part b) above.

d) Hydro Ottawa will explore options available to manage peak demand such as those described in parts b) and c) as they become more prevalent in the market, and is supportive of customer owned initiatives that aim to achieve demand management. To this end, Hydro Ottawa is committed to customer affordability and actively seeks ways to reduce service upgrade costs and explore alternatives to traditional service upgrades. Smart, controllable technologies such as these also present opportunities for Hydro Ottawa to explore additional flexible resources that can be leveraged for demand management. Accessing these customer-owned resources through new programs such as those described in Hydro Ottawa's Non-Wires Customer Solutions program (see Section 9.2.2.1 of Schedule 2-5-4 - Asset Management Process) may potentially avoid the need for cost-based service and utility-side infrastructure upgrades. Hydro Ottawa intends to explore new use cases for NWS in the future through its NWS Assessment Criteria described in Section 9.2.1 of Schedule 2-5-4 - Asset Management Process. Further relevant information around this topic is also found in the response to interrogatory 1-CO-11.

e) As a general note, if customers do not require service upgrades, no upstream asset upgrades are necessary. If upgrades to individual customer services can be avoided, then upgrades to upstream infrastructure like street-level transformers may not be required. With regards to electrical design, Hydro Ottawa has established standards for the maximum number of residential services permitted to connect to a distribution transformer. These standards account for future electrification needs.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-14

EVIDENCE REFERENCE:

Reference: Exhibit 2, Tab 5, Schedule 1, (DSP, system access) also Exhibit 8 (service charges)

QUESTION(S):

a) Please confirm whether the proposed capital investments are sufficient to ensure that each Hydro Ottawa residential customer would be able to install an EV charger or electric heat pump without delay in any part of Hydro Ottawa's system. If not, please indicate where on its system there would be insufficient capacity.
b) What does Hydro Ottawa charge to facilitate upgrading a residential customer's service to 200 amps? Please provide a breakdown of the costs (e.g. application fee, disconnect/connection costs, conductor upgrade where necessary, transformer upgrade where necessary).
c) Please create a table to compare the charges in (b) to those charged by Alectra, Toronto Hydro, and Elexicon Energy.
d) Please provide excerpts from the Hydro Ottawa conditions of service and the DSC that allow Hydro Ottawa to levy the charges/fees described in (b).
e) Please provide all studies and calculations justifying the fixed fees for a panel upgrade charged by Hydro Ottawa.
f) On average, how long does it take for Hydro Ottawa to carry out a service upgrade once requested by a customer.

RESPONSE(S):

a) Hydro Ottawa acknowledges that there are potential capacity limitations on the system at the distribution transformer and secondary cables in neighbourhoods that were constructed prior to

2019. In order to ensure that the proposed capital investments are sufficient to enable electrification for residential customers, Hydro Ottawa has undertaken efforts as detailed below.

- In 2019, Hydro Ottawa updated design standards for underground residential transformer and service wire sizes to account for the impacts of electrification, specifically looking to accommodate a Level 2 charger at every home. Sizing for overhead residential transformers and conductors is assessed by request, on a case-by-case basis during the design process. For more details please refer to part (b) of the response to interrogatory 2-ED-12.
- For residential neighbourhoods energized prior to 2019, Hydro Ottawa works with customers and developers to provide economical supply options to enable electrification should an upgrade become necessary. In addition, Hydro Ottawa through its renewal programs ensures that end of life infrastructure is replaced per the updated design standards to enable electrification. For more details please refer to Section 4.4.2 of Schedule 2-5-7 - System Renewal Investments.
- Hydro Ottawa has taken steps to ease the connection of EV chargers through programs such as the Zero Emission Vehicle Infrastructure Program (ZEVIP). For more details please refer to parts (b) and (f) of the response to interrogatory 2-ED-17.
- Hydro Ottawa has been working with project partner BluWave-ai on a pilot project, EV Everywhere, which is an innovation project funded in part by the IESO's Grid Innovation Fund. The pilot project pairs predictive analytics with local demand response programming for electric vehicles as well as battery storage with the aim to test how the technology can help address localized system needs as EV adoption increases. For more details please refer to Section 9.2.4.1 of Schedule 2-5-4 - Asset Management Process.

b) Since 2019 Hydro Ottawa design standards for new residential underground developments have been based on 200A service per household. A basic credit per residential customer is provided when the service is first installed. Builders may still install a 100A panel, which a customer may choose to upgrade at a later date. In these cases, no change to Hydro Ottawa's distribution system is typically required. The customer may require an isolation to complete necessary work. As outlined in on page 3 of Schedule 6-3-5 - Other Income & Deductions, Hydro Ottawa is proposing to offer these isolations/re-energizations at no charge.

For installations prior to 2019 where a 120/240V, 1-phase, 3-wire residential service upgrade (e.g. 100A to 200A) does require updates to distribution system equipment, the existing meter and secondary conductor are removed by Hydro Ottawa, when possible, at no additional cost to the customer. Upgrade costs are calculated based on the average time and material needed, which are regularly updated to reflect current costs. A current cost estimate based on the scope outlined is provided below:

Scope Included in Estimate:

- Shared cost of transformation and secondary buss (calculated based on main switch size),
- Cost of 30 meters (100 feet) of service wire (for 400A service or less), if needed
- Additional cost if the service wire exceeds 30 meters (100 feet) for 400A service or less.

Current Cost Estimate:

Hydro Ottawa Approximate Costs & Considerations:

Standard 100A to 200A Service Upgrades (Excluding Wire Costs, Pre-Tax)

- Overhead Service: $1,996.13
- Underground Service: $2,025.20

c) Providing a direct comparative table of charges for residential service upgrades (e.g. 100-amp to 200-amps) across different LDCs is not straightforward and generally not feasible. This is due to the need for specific, detailed project scopes and access to each utility's fee schedules.

Each LDC operates with its own approved rate structures, specific fee schedules, and internal cost recovery mechanisms, all of which vary for different types of work.

d) Section 2.4.6 of The Distribution System Code states that a distributor's Conditions of Service "shall include, at a minimum, a description of... The distributor's basic connection service that is recovered through its revenue requirements and does not require a variable connection charge."

Hydro Ottawa's Conditions of Service states that Hydro Ottawa can assess and require payment for new or altered services and includes Appendix G - Methodology for Standard Fees for Various Services (p.148). This Appendix G, along with the sections on "Expansions and Offer to Connect" and "Tariffs and Charges," are the specific provisions that would outline how Hydro Ottawa applies its costing, which can encompass "share costing" for benefits or infrastructure that serves multiple customers.

e) Hydro Ottawa notes that panel upgrade is not mentioned in either reference provided and would like to note that panel upgrades are not part of the fixed charges provided in Exhibit 8, specifically Schedule 8-4-1 - Specific Service Charges. It is also unclear what is being referenced in Schedule 2-5-1 - Distribution System Plan Overview, as this particular service is part of Other Revenues.

Please note charges related to panel upgrades are established based on time and material. In order to be efficient, Hydro Ottawa reviews that cost at regular intervals or when known conditions change. If a customer specific situation is unique, a customer specific approach is taken. As noted above, Hydro Ottawa calculates its charges based on an average of the time and material expected to complete the work and detailed calculations on isolation and reconnection costs are provided in Attachment 8-4-1(A) - Proposed and New Specific Service Charge Calculations.

f) Hydro Ottawa works with the customer to schedule an appointment for a layout. Subsequent to this, customers are required to satisfy various service conditions, which are unique to each customer’s specific requirements. Upon the fulfillment of all applicable service conditions, for a residential customer (i.e. service less than 750 volts), a connection appointment is completed within five (5) business days, or on a later date as agreed upon by Hydro Ottawa and the customer.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-15

EVIDENCE REFERENCE:

Reference: Exhibit 2, Tab 5, Schedule 1, (DSP, system access)

QUESTION(S):

a) Please provide a table showing, for each year from 2025 to 2029, the forecast number of new connections, the forecast contribution to co-incident system peak demand (summer and winter) for those that are gas heated, the forecast contribution to co-incident system peak demand (summer and winter) for those that are electrically heated, the forecast total demand for those that are electrically heated and those that are gas heated.

b) Please provide the information requested in (a) but for the most recent year of historical data.

c) Please provide a list of all expected connection requests during the rate period, the forecast peak (summer and winter) and annual demand of each, and how each is forecast to be heated.

d) If all new construction in Ottawa over 2025 to 2029 were to be heated with efficient heat pumps (i.e. no fossil fuels), would Hydro Ottawa be able to provide the required electrical service? If not, what would the shortfall be and how would it arise?

e) If all of the new construction in Ottawa over 2025 to 2029 that is expected to be heated by fossil fuels were to switch to heat pumps instead, approximately (i) how much additional revenue would Hydro Ottawa collect from those customers due to incremental demand (nominal lifetime and NPV), and (ii) approximately how much additional cost would Hydro Ottawa have to invest in its system that would not be covered by contributions in aid of construction from the connecting customers?

f) Please provide a sample of the Appendix B DCF calculations for a typical new condominium construction with geothermal heating versus gas heating? Please indicate (i) the electricity connection capital costs for each heating scenario and (ii) the 25-year revenue offset for the connection costs under Appendix B (i.e. how much more distribution revenue would be paid

and thus be used to offset the contribution in aid of construction).

RESPONSE(S):

a) The forecasted number of new connections within the Customer Connections Program between 2025 and 2029 can be found in Table A below. Hydro Ottawa does not have a breakdown of the forecasted number of new connections for gas versus electric heating since this information is not tracked or required for assessing capacity requirements or for budget forecasting. Hydro Ottawa therefore cannot provide the contribution to co-incident system peak demand or total demand by this categorization.

For more details on Hydro Ottawa's budget forecasting methodology for the customer connections program please refer to the responses to interrogatories 2-CCC-20, part (e), 2-CCC-21, part (e) and 2-CCC-22, part (e).

Globally, Hydro Ottawa is unable to provide the forecasted contribution to co-incident system peak for individual connections due to the approach for capacity planning. Please refer to Section 8.4 and Section 9.1 of Schedule 2-5-4 - Asset Management Process and the response to interrogatory 2-Staff-66 for Hydro Ottawa's capacity planning methodology. The methodology applied focuses on aggregate load at the station and feeder level rather than individual customers' contributions to the system peak.

Table A - Forecasted Customer Connection Volumes from 2025-2030

	Bridge Year	Test Years				
	2025	2026	2027	2028	2029	2030
Customer Connections	9,533	9,704	9,871	10,038	10,207	10,378

b) The number of new connections completed in 2024 was 8,338 LV connections and 42 HV connections, as reported in the RRRs for 2024. As noted in response to part (a), Hydro Ottawa does not track the heating type of each connection. This is because customers are not required to notify the utility of the heating source or changes within their premise, such as the installation of EV chargers or a switch from gas to electric heating. Although Hydro Ottawa tracks the number of service upgrades, as detailed in the response to part (a) of interrogatory 2-ED-13, this data is not solely for electrification-related changes and therefore cannot be used to isolate the growth of electrification. And hence, the contribution to the co-incident system peak demand and the total demand for the connections in 2024 for gas and electrically heated cannot be furnished.

c) Please see the response to part (a) above.

d) Hydro Ottawa conducted assessments on the impact of heating electrification across various customer segments (residential, commercial, federal buildings, and large customers). More details on these assessments can be found in Section 2 of Attachment 2-5-4(f) - Decarbonization Study. The heating electrification assumptions used in this study were not based on 100% heat pump adoption in all new construction from 2025 to 2029. Therefore, Hydro Ottawa is unable to comment on the distribution system impact of such a scenario.

e) Please see the response to part (d) above.

f) Hydro Ottawa is unable to provide a sample of the Appendix B DCF (Discounted Cash Flow) calculations for a typical new condominium construction with geothermal heating versus gas heating as the specific infrastructure requirements, associated capital costs, and the resulting revenue streams are highly dependent on the unique characteristics of each development, including its size, location (which bears on system loading, capacity availability on lie-along infrastructure and other technical parameters) and the electricity demand profile of its occupants.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-16

EVIDENCE REFERENCE:

Reference: Exhibit 2, Tab 5, Schedule 1, (DSP, system access)

QUESTION(S):

a) If customer connection costs are higher than forecast, how would Hydro Ottawa manage the cost?
b) Please confirm that DSC allows utilities to apply a longer revenue horizon beyond the standard horizon for calculating contributions in aid of construction. Has Hydro Ottawa ever done this? Would Hydro Ottawa consider doing this where the customer implements technology that lowers its impact on the system peak (such as geothermal, which lowers summer cooling requirements)?
c) Please compare the co-incident peak summer electricity demand from a typical commercial or residential tower that is cooled with geothermal versus traditional air conditioning.
d) Please provide the 20 highest winter demand hours and summer demand hours for each of the past five years for Hydro Ottawa's system, including the date, hour, and demand.
e) On average, what is the peak demand on Hydro Ottawa's system in the summer versus the winter?

RESPONSE(S):

a) There are several mechanisms in which Hydro Ottawa would manage customer connection costs that are higher than forecast and would depend on the rationale for the increase in connection costs.

There are two types of costs when a new customer connects to the electricity grid: customer connection costs and system expansion costs. The Ontario Energy Board outlines such a distinction in the Distribution System Code. Costs that are used to connect a customer to Hydro Ottawa's distribution system are paid for by the connecting customer(s). Hydro Ottawa provides residential customers a basic connection credit.

For variances between actual and forecasted system expansion capital additions, net of capital contributions related to customer-driven system access, Hydro Ottawa has proposed modifying an existing sub-account System Access Capital Additions Revenue Requirement (Residential and Plant Relocation) Differential Variance Account. This proposed account includes commercial expansions and capacity upgrades (under System Service) related to enabling housing development as defined under Ontario's Bill 214, the Affordable Energy Act, 2024. The specific sub-account is to record the revenue requirement adjustment related to the over- or underspending on applicable capital additions, which include third-party initiated plant relocations and specific commercial expansions and residential expansions. This sub-account is called the System Access and Growth Capital Development Additions account. More details are available in Section 3.5.3.2 of Schedule 1-3-1 - Rate Setting Framework and Section 2.5.7 of Schedule 9-1-3 Group 2 Accounts.

Going forward, this variance account would safeguard both customers and Hydro Ottawa by ensuring necessary investment for customer-driven projects are properly funded through customer contributions and rates while ensuring funds are returned to ratepayers when contributions are higher than anticipated or growth slows, while also keeping Hydro Ottawa funded for growth (including housing developments) and electrification-related investments.

b) The DSC does not allow for longer revenue horizons beyond the standard. Appendix B of the DSC, which outlines the methodology [standard] for calculating Contributions in Aid of Construction (CIAC), originally set a maximum customer revenue horizon of 25 years. However, a recent amendment to the DSC, effective December 23, 2024, extended the revenue horizon

for residential connections to 40 years where the initial offer to connect was accepted by the developer or other customer after November 18, 2024.

Prior to the December 23, 2024 amendment, Hydro Ottawa did not extend the revenue horizon beyond the standard 25 years. Since the amendment, Hydro Ottawa has implemented the extended 40-year revenue horizon for new connections that meet the qualifications for residential developments.

The economic evaluation methodology detailed in Appendix B of the DSC is a risk-based assessment that is not specifically driven by the type of technology a customer implements. The current framework for extending the revenue horizon is tied to specific customer types, such as qualifying residential developments, rather than the impact of a customer's technology on system peak demand. Therefore, under the current DSC rules, a customer's decision to implement technology like geothermal that lowers its impact on the system peak would not, on its own, be a basis for Hydro Ottawa to extend the revenue horizon for CIAC calculations. Hydro Ottawa's approach is to follow the established economic evaluation methodology as prescribed by the Ontario Energy Board.

c) Hydro Ottawa's core expertise lies in the operation of the electricity distribution grid, which includes delivering electricity to customers and managing the associated infrastructure. Hydro Ottawa supports the city's transition to a carbon-free future and is involved in initiatives that promote sustainable energy, but does not have specific expertise in the technical design or performance comparison of different heating and cooling technologies like geothermal systems versus traditional air conditioning.

Therefore, Hydro Ottawa cannot provide a detailed comparison of the co-incident peak summer electricity demand for a commercial or residential tower cooled with geothermal versus traditional air conditioning.

d) Table A includes the Top 20 Summer and Winter peak kW, date and time based on 2020-2024 Historical data. Hydro Ottawa has aligned summer and winter months based on the RRR filing guidelines for RRR 2.1.5.5 and the values correspond to the monthly peak "without embedded generation".[1]

Table A: 2020-2024 Top 20 Summer and Winter System Peak kW

#	Winter Peak (kW)	Winter Peak Date/Time	Summer Peak (kW)	Summer Peak Date/Time
1	1,254,829.54	2/3/2023 17:00:00	1,514,533.05	6/19/2024 16:00:00
2	1,229,398.60	1/11/2022 17:00:00	1,503,932.43	7/10/2020 15:00:00
3	1,187,770.54	12/16/2020 18:00:00	1,492,275.84	9/5/2023 16:00:00
4	1,164,700.39	12/23/2024 17:00:00	1,459,958.34	7/6/2023 15:00:00
5	1,160,950.86	1/19/2024 17:00:00	1,443,717.98	8/1/2024 16:00:00
6	1,157,076.93	2/14/2022 18:00:00	1,424,636.88	7/15/2024 13:00:00
7	1,140,361.05	1/18/2020 18:00:00	1,414,376.15	8/26/2021 16:00:00
8	1,130,861.44	1/25/2023 17:00:00	1,390,623.50	6/8/2021 16:00:00
9	1,130,748.53	12/7/2023 17:00:00	1,383,209.35	6/22/2020 14:00:00
10	1,121,485.14	12/8/2021 18:00:00	1,378,268.51	6/1/2023 16:00:00
11	1,116,684.26	1/28/2021 19:00:00	1,352,972.87	8/11/2020 14:00:00
12	1,104,709.14	2/16/2021 18:00:00	1,349,250.75	7/20/2022 16:00:00
13	1,097,797.85	11/28/2023 17:00:00	1,334,101.08	8/29/2022 16:00:00
14	1,096,104.67	3/1/2022 17:00:00	1,305,078.90	5/27/2020 17:00:00
15	1,086,030.37	12/12/2022 17:00:00	1,304,890.44	5/22/2024 16:00:00
16	1,083,835.82	2/14/2020 19:00:00	1,293,087.17	7/6/2021 17:00:00
17	1,077,776.58	2/20/2024 18:00:00	1,282,873.94	9/16/2024 16:00:00
18	1,065,821.43	3/2/2021 19:00:00	1,280,821.53	5/31/2023 16:00:00
19	1,065,777.24	11/20/2022 17:00:00	1,256,549.28	6/25/2022 16:00:00
20	1,053,623.42	11/18/2020 18:00:00	1,221,654.93	10/4/2023 15:00:00

[1] Ontario Energy Board, *RRR Filing Guidelines for Electricity Distributors* (March 14, 2025) Page 88

e) Using the Historical data described in question (d) above, on average the peak demand in Hydro Ottawa's system in the summer compared to the winter is shown in Table B.

Table B - Historical 2020-2024 Average Summer and Winter System Peak (kW)

Average Winter Peak	Average Summer Peak
1,074,812.19	1,266,220.26

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-17

EVIDENCE REFERENCE:

Reference: Exhibit 2, Tab 5, Schedule 1, (DSP)

QUESTION(S):

a) What barriers exist to installing EV chargers in existing multi-residential buildings?
b) What roles does Hydro Ottawa typically play with respect to the installation of EV chargers in the parking area of multi-residential buildings.
c) Please provide a breakdown of the number of and percent of multi-residential buildings in each rate class, with a description of how distribution charges are levied in each class (fixed, per kWh, or per kVA?).
d) If distribution system upgrades are required to allow a multi-residential building to install EV chargers, how are the costs to be paid by the building customer calculated? Is the forecast incremental revenue from the incremental load considered as part of those calculations? If not, why not. Please describe two cases: (i) with individual meters for each unit and (ii) a single meter for the property.
e) How many and what percent of multi-residential buildings have a meter for each unit?
f) What additional steps could Hydro Ottawa take to ease the connection of EV chargers in multi-residential buildings?

RESPONSE(S):

a) While Hydro Ottawa, as a local distribution company, does not directly install EV chargers in existing multi-unit residential buildings, the utility is involved in facilitating system upgrades to support such installations, if necessary. Therefore, while Hydro Ottawa cannot comment on the full range of specific on-site installation barriers that exist, the utility notes that many older

multi-unit residential buildings may not have been designed with the electrical capacity to support a significant number of EV chargers. Upgrading these buildings' internal electrical systems and connection to the Hydro Ottawa distribution network can be complex and costly, for both the customer and Hydro Ottawa.

b) Hydro Ottawa does not have a direct role in installing EV chargers. Should a building require a new service, or an upgrade to their service as a result of added load (from EV chargers or any other reason), Hydro Ottawa would support this. Additionally, Hydro Ottawa previously acted as a delivery agent for NRCan's Zero Emission Vehicle Infrastructure Program (ZEVIP), which provided incentives for the installation of public EV charging stations, including those available for residents' use at multi-unit residential buildings. For additional details about this program, refer to Section 2.4.4 of Schedule 1-4-1 - Customer Engagement Ongoing.

c) Hydro Ottawa does not track the number of and percent of multi-residential buildings in each rate class and it is difficult to provide a definitive number of multi-unit residential buildings. However, through analysis of recent projects, regulated price plan (RPP) eligible general service >50 kW customers, locations with over 25 unique residential premises, and recent customer growth as detailed in Section 3.2 of Schedule 3-1-2 - Accuracy of Load Forecast Variance, an estimate of the number of multi-unit buildings has been provided in Table A below. The percentage in Table A was derived for Bulk metered buildings as a percentage of customer count for Small Commercial, General Service 50-1,499 kW and General Service 1,500-4,999 kW classes as of June 30, 2025, and is solely an estimate.

Multi-unit residential buildings can be bulk metered or unit-metered. If unit-metered, individual residential unit meters are classified as residential accounts, while common-area meters would be classified as either small-commercial or commercial accounts, depending on the size of their load. If bulk metered, there is one account which bills all residential units and the common areas; these multi-unit residential buildings are classified as small-commercial or commercial accounts, depending on the size of their load.

Table A - Estimate Number of Muti-Unit Residential Buildings

	Bulk	Unit-Metered	%
Small Commercial	168		0.7%
General Service 50-1,499 kW	422		13.4%
General Service 1,500-4,999 kW	7		9.0%
TOTAL	**597**	**715**	

The billing determinant (fixed, per kW or kWh) for distribution rates is dependent on the customer rate class. For more information on Hydro Ottawa's proposed distribution rates for the 2026-2030 rate period, please see Table 1 in Schedule 8-5-1 - Bill Impacts and Tariff of Rates and Charges.

d) The costs for distribution system upgrades to accommodate EV chargers in a multi-residential building depend on the type of upgrade required, specifically whether it's site specific servicing or system expansion. This cost isn't necessarily determined by the type of metering—whether individual meters for each unit or a single meter for the property. The approach for both cases is discussed below:

- Site Specific Servicing Upgrades: The building owner is responsible for 100% of the cost for any upgrades required on their property. This includes upgrades to the main building switchgear or the transformer that serves the building as this is considered private infrastructure. The incremental revenue from individual units is not a factor in this cost calculation.
- System Expansion: If the upgrade requires an expansion of Hydro Ottawa's distribution system (e.g., a new feeder line or an upgraded substation transformer), the OEB's prescribed economic evaluation methodology as prescribed in Appendix B of the Distribution System Code is employed. This methodology compares the total cost of the distribution system expansion with the forecast incremental revenue generated by the new EV load over a defined period. The customer may be responsible for a portion of the costs that aren't covered by the projected revenue.

e) In response to question c) above Hydro Ottawa has estimated 715 buildings (54.5%) of identified mulit-unit residential buildings have individual meters for their residential units. Please see the response to question c) for the assumptions and data sources that this number is based on.

f) Hydro Ottawa is committed to supporting its customers as they electrify their buildings, including the installation of EV chargers. As outlined in the response to question b) above, and in Section 2.4.4 of Schedule 1-4-1 - Customer Engagement Ongoing, Hydro Ottawa successfully applied for, and subsequently distributed funding under NRCan's Zero Emission Vehicle Infrastructure Program (ZEVIP) to support the installation of public EV chargers, including those at multi-unit residential buildings. Hydro Ottawa will continue to pursue such opportunities to bring funding and programs to its customers. Additionally, as a local distribution company, Hydro Ottawa operates within the regulatory framework set by the OEB concerning the connection of EV charging infrastructure, and its mandate is to ensure the safe, reliable, and compliant connection of new loads - including EV charging loads - to the distribution system, adhering to all OEB regulations and guidance. This includes, but is not limited to, implementing approved funding programs, providing technical assistance and guidance as mandated, and exploring opportunities for demand response and load management as directed by the OEB's policy framework.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-18

EVIDENCE REFERENCE:

Reference: Exhibit 2, Tab 5, Schedule 1, (DSP)

QUESTION(S):

a) What number and percent of meters does Hydro Ottawa plan to replace with an AMI 2.0 meter.
b) What percentage of Hydro Ottawa meters already have bi-directional capabilities such that no meter replacement is needed for a customer to move to net metering?
c) Are the AMI 2.0 meters that Hydro Ottawa will be installing bi-directional such that customers moving to net metering would not need a meter replacement?
d) Would Hydro Ottawa agree to prioritize the rollout of AMI 2.0 meters for customers installing a DER by installing AMI 2.0 meters for those customers out of the AMI 2.0 meter replacement budget versus cost recovery from the customer?

RESPONSE(S):

a) Hydro Ottawa has proposed to replace 161,000 meters during the 2026-2030 rate application period, which is approximately 43% of the total fleet. (Please refer to page 126, lines 1-3 of Schedule 2-5-7 - System Renewal Investment).

b) Currently, none of Hydro Ottawa's meters have bi-directional capabilities unless the customer was already participating in a Fit/Micro-Fit/DER program. Customers applying for the net metering program will require a meter replacement to install a bi-directional meter.

c) Yes, some customers will receive bi-directional meters during the AMI 2.0 deployment to prepare for future needs, such as net metering. However, not all customers may receive a bi-directional meter. The deployed meter configuration will be determined by specific criteria, including the customer's meter replacement criteria in the 10-year deployment (refer to Section 5.7.1 of Schedule 2-5-7 - System Renewal Investments), building layout, meter form, customer rate class, and other site-specific requirements.

d) Regarding the AMI 2.0 rollout, Hydro Ottawa's approach is to prioritize its implementation through a multi-faceted evaluation. This comprehensive evaluation considers key factors such as meter age, meter seal date, geographical location, critical infrastructure, grid modernization initiatives, and customer density (refer to Section 5.7.1 of Schedule 2-5-7 - System Renewal Investments).

For customers installing a Distributed Energy Resource (DER), their AMI 2.0 meter deployment would be assessed within this established prioritization framework. As projects advance through their lifecycle, they are continuously evaluated to ensure alignment with Hydro Ottawa's strategic objectives and evolving conditions. This process guides decisions regarding deployment and associated cost considerations (refer to Section 5.4.1 of Schedule 2-5-4 - Asset Management Process).

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-19

EVIDENCE REFERENCE:

Reference: Exhibit 2, Tab 5, Schedule 1, p. 103 (DSP)

QUESTION(S):

a) Please discuss emerging AMI 2.0 meters that are able to act as a DERMS (i.e. monitor and control a DER.
b) Will the Hydro Ottawa AMI 2.0 meters have that capability?
c) If that capability is still emerging, when does Hydro Ottawa believe it will be commercially available at a cost-effective price.

RESPONSE(S):

a) Hydro Ottawa does not possess knowledge of emerging AMI 2.0 meters and their capabilities to act as a DERMS. Hydro Ottawa's AMI 2.0 meters are integral to grid modernization and DER integration, but they are not presented as a standalone DERMS solution. Instead, the DERMS is a specific module planned for integration within Hydro Ottawa's Advanced Distribution Management System (ADMS). For more information, please refer to Section 7.1 of Schedule 2-5-8 - System Service Investments.

b) Please refer to part (a) above. Hydro Ottawa has not selected a vendor for its AMI 2.0 Metering Renewal program. The selection of the vendor will be made in accordance with Hydro Ottawa's procurement policy (Attachment 4-2-2 (A)) to meet the needs of the meter renewal program identified in Section 5 of Schedule 2-5-7 - System Renewal Investments. The procurement process will determine the type of meter Hydro Ottawa will procure and install.

c) Hydro Ottawa does not have knowledge of the commercial availability and pricing of meter manufacturers' products.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-20

EVIDENCE REFERENCE:

Reference: Exhibit 2, Tab 5, Schedule 1 (DSP)

QUESTION(S):

a) Hydro Ottawa is predicting significant increases in customer connection costs and capacity upgrades. These upgrades will presumably be accompanied increased revenue in the future from new customers. Please quantitatively assess the degree to which the increased costs for connections and capacity upgrades (p. 95 & 104) will be offset in future years by load and revenue growth (both within and beyond the rate term).

RESPONSE(S):

a) Per the Distribution System Code, costs to expand the grid capacity to connect new customers or service upgrades are subject to an economic evaluation, which assesses whether the revenue stream associated with the increased demand will pay for the cost of expansion over the applicable revenue horizon. A shortfall between the cost and the revenue is addressed by a capital contribution to be paid by the connecting customer. This methodology is designed to ensure that customers-driven growth-related costs and revenues balance over time (25 to 40 years as determined by the applicable revenue horizon).

Hydro Ottawa has not completed this analysis. Furthermore, refer to interrogatory response 3-EP-3.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-21

EVIDENCE REFERENCE:

Exhibit 2, Tab 5, Schedule 1 (DSP)

QUESTION(S):

a) Please explain how the forecast of increasing non-renewable electricity generation capacity at Exhibit 2, Tab 5, Schedule 4, p. 294 is consistent with the Clean Electricity Regulations.

b) At Exhibit 2, Tab 5, Schedule 4, p. 299, Hydro Ottawa states that it "is actively pursuing the solutions above to remove the short circuit restrictions on 36 feeders and the thermal restriction on 13 feeders, in order to accommodate new DERs." Please provide the completion date for each of the solutions, broken down by the feeder being targeted.

RESPONSE(S):

a) Hydro Ottawa has not evaluated whether the forecast of increasing non-renewable electricity generation capacity on page 294 of Schedule 2-5-4 - Asset Management Process is consistent with the Clean Electricity Regulations. The anticipated increase in non-renewable electricity generation in Figure 112 of Section 9.3.2 in Schedule 2-5-4 - Asset Management Process represents generators that typically operate on fossil fuels such as diesel or natural gas. The majority of these generators are for emergency backup capacity during outage events. Consistent with Hydro Ottawa's obligations as an OEB-licensed electricity distributor, the utility provides non-discriminatory access to its distribution network to customers interested in connecting non-renewable DERs for purposes such as emergency backup power. With that in mind, Hydro Ottawa aims to remain committed to decarbonization efforts consistent with the Clean Electricity Regulations by supporting the transition to low-carbon or net-zero emission

fuels for non-renewable generators and focusing on promoting and facilitating the use of renewable DERs and storage solutions.

b) For the completion date for each of the solutions please refer to part (b) of the response to interrogatory 2-ED-10.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-22

EVIDENCE REFERENCE:

Exhibit 2, Tab 5, Schedule 4, Attachment F (DSP, decarbonization study)

QUESTION(S):

a) Please provide a table and a chart showing the share of residential energy use (MWh) and residential heating energy demand (MWh) served by electricity, RNG, and fossil gas for each of the scenarios in the Decarbonization Study and the figures underlying or implied by Hydro Ottawa's load forecasts. Please also provide the same figures for buildings as a whole. Please annual figures for the time period of the decarbonization study.

b) Please provide a table and a chart showing the heating type breakdown (heat pumps, gas furnaces, etc.) for each of the scenarios in the Decarbonization Study and the figures underlying or implied by Hydro Ottawa's load forecasts. Please annual figures for the time period of the decarbonization study.

RESPONSE(S):

a) The Decarbonization Study leverages residential sector energy use assumptions from National Resources Canada to set the baseline for energy consumption by end use (space heating, water heating, appliances) and energy end use by fuel type as seen in Tables A and B below. The pie charts depicting the same data can be found in Figure 7 on page 22 of Attachment 2-5-4(F) - Decarbonization Study.

Table A: Residential Energy Use (By End-Use)

Residential Energy (By End-Use)	
Type	**Percentage**
Space Cooling	3%
Lighting	3%
Appliances	12%
Water Heating	17%
Space Heating	66%

Table B: Residential Energy Use (By Fuel Type)

Residential Energy (By Fuel Type)	
Type	**Percentage**
Heating Oil	2%
Other	2%
Wood	4%
Electricity	30%
Natural Gas	63%

In terms of the assumptions used to forecast the five decarbonization scenarios, varying pace of electrification for space and water heating were used as detailed in Table C below based on federal and local climate targets. In other words, the natural gas portion was assumed to be electrified based on scenario-specific decarbonization curves.

Since the assumptions were not based on % of electric heating as a share of overall residential energy use (MWh), the tables and charts pertaining to this cannot be furnished.

Table C - Heating Electrification Targets

Heating Electrification Targets (%)						
Categories	Type	Reference Scenario (%)	Dual-Fuel Scenario (%)	Policy Guided (%)	Low Sensitivity (%)	High Sensitivity (%)
Space Heating	Electric	76	76	100	85	40
	RNG	24	24	0	15	60
	Fossil Fuels	0	0	0	0	0
Water Heating	Electric	76	76	100	85	40
	RNG	24	24	0	15	60
	Fossil Fuels	0	0	0	0	0

Hydro Ottawa's capacity needs assessment used two forecasts - the Hydro Ottawa Planning Forecast used to assess immediate system needs and the IRRP Forecast used to assess medium and long term needs. For more details on the two forecasts please refer to Section 9.4 of Schedule 2-5-4 - Asset Management Process. Please refer to Section 9.1 of Schedule 2-5-4 - Asset Management Process for more details on the capacity needs assessment. Hydro Ottawa's IRRP Forecast leveraged the assumptions in the Reference Scenario from the Decarbonization Study.

The Decarbonization Study's assumptions were categorized by customer segment (Residential, Commercial, Federal Buildings, and Large Customers) rather than aggregated by the total number of buildings. Therefore, comprehensive figures for buildings cannot be provided.

For annual load trends please refer to the respective figures for each scenario in Attachment 2-5-4(F) - Decarbonization Study as detailed in Table D below.

Table D - Annual Heating Electrification Trends

Decarbonization Scenario	Pages
Reference & Dual Fuel Scenario	Figure 17, Figure 18
Policy Guided Scenario	Figure 26, Figure 27
High and Low Sensitivity Scenario	Figure 35

b) As explained in response a) above, the Decarbonization Study did not quantify the heating type breakdown (heat pumps, gas furnaces, etc.) for each of the scenarios but rather varying pace of electrification of space and water heating as a whole were used in the five scenarios. As such, Hydro Ottawa cannot provide the requested charts, tables, and figures showing the heating type breakdown (heat pumps, gas furnaces, etc.) for each of the scenarios in the Decarbonization Study.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-23

EVIDENCE REFERENCE:

Exhibit 2, Tab 5, Schedule 4, Attachment F (DSP, decarbonization study)

Preamble:
We ask for this interrogatory to be separately answered by Hydro Ottawa and Black and Veatch.

QUESTION(S):

a) Please confirm that the Cost-Effective Pathways Study prepared for the Ontario Government[1] used a cost optimization model to assess the most cost-effective pathways to decarbonize the province.
b) Does Hydro Ottawa agree that this study prepared for the Ontario Government is credible?
c) Please confirm that the most cost-effective pathway to reach net zero resulted in almost a complete elimination of gas as a source of energy for residential customers (as shown on page 56).
d) Please compare this cost-optimal pathway with the forecasts used by Hydro Ottawa.

RESPONSE(S):

Hydro Ottawa is unable to answer the questions posed in parts a) to d) of this interrogatory because Hydro Ottawa did not commission this study, did not rely on it in planning or evidence, and has not completed a detailed technical review of this study. The Provincial Pathways Study was released in August 2024 and was not used to inform Hydro Ottawa's Decarbonization Study as the Decarbonization study was being finalized at this point.

[1] https://www.ontario.ca/files/2025-06/mem-cost-effective-energy-pathways-study-for-ontario-en-2025-06-10.pdf

Hydro Ottawa respectfully declines to request Black & Veatch to respond to the questions posed in part a) to d) of this interrogatory because these questions do not pertain to and are beyond the scope of the Black & Veatch study.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-24

EVIDENCE REFERENCE:

Exhibit 2, Tab 5, Schedule 4, Attachment F (DSP, decarbonization study)

Preamble:
We ask for this interrogatory to be separately answered by Hydro Ottawa and Black and Veatch.

QUESTION(S):

a) Please confirm that the Canadian Climate Institute used a cost optimization model to assess the most cost-effective pathways to decarbonize the country and each province.[1]
b) Does Hydro Ottawa agree that this study is credible?
c) Please confirm that this study concludes that the most cost-effective path to net zero would result in a 96% decline in gas use in Ontario (see page 17).
d) The study concludes as follows: “Feedstock constraints are an important limiting factor for biomethane production. Recent studies estimate that, given current feedstock availability and existing production technologies, Canada could feasibly produce between 90 and 218 petajoules of biomethane per year (Abboud et al. 2010; Kelleher Environmental 2013; Stephen et al. 2020). This is equivalent to only 2 to 5 per cent of Canada’s total 2021 gas demand (CER 2023).” (p. 30) Does Hydro Ottawa and its experts agree?
e) Please comment on the following conclusion from this study: “Likewise, low-carbon gases like hydrogen and biomethane will not serve as replacement fuels on a scale that can justify continued gas network expansion. Our modelling and numerous other studies find that these gases are either too scarce or too costly to heat more than a small fraction of Canada’s buildings, and are instead taken up by other sectors such as heavy industry. Even under lower-cost assumptions for these fuels, electrification of building heat still dominates.” (p.III)

[1] https://climateinstitute.ca/wp-content/uploads/2024/06/Heat-Exchange-Report-Canadian-Climate-Institute.pdf

f) Please provide a chart or table comparing the conclusions in this report on the role of electricity in providing building heat versus Hydro Ottawa's forecasts and the scenarios in the Decarbonization Report.

RESPONSE(S):

Hydro Ottawa has not completed a detailed technical review of the "Heat Exchange" report prepared by the Canadian Climate Institute, and as such is not prepared to comment on the specifics of this report.

Hydro Ottawa respectfully declines to request Black & Veatch to respond to the questions posed in part a) to d) of this interrogatory because these questions do not pertain to and are beyond the scope of the Black & Veatch study.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-25

EVIDENCE REFERENCE:

Exhibit 2, Tab 5, Schedule 1 (DSP, NWS)

QUESTION(S):

a) How many Hydro Ottawa customers have EVs?
b) How many Hydro Ottawa customers have EVs that are capable of bi-directional charging?

RESPONSE(S):

a) Hydro Ottawa does not have direct insight into how many of its customers own an EV.

Through the Electricity Distributors Association (EDA), Hydro Ottawa has access to Ministry of Transportation (MTO) data showing the number of EV registrations in each Forward Sorting Area (FSA), which corresponds to the first three characters of a postal code. For FSAs associated with Hydro Ottawa's service territory, MTO data as of March 2025 (the most recent data available) shows that there were a total of 12,462 Battery Electric Vehicles and 6,549 Plug-in Hybrid Electric Vehicles registered, for a total of 19,011 EVs registered.

Please note that some FSAs cross Hydro Ottawa service territory boundaries. Also, this data only shows EVs that are registered in the respective FSAs and does not guarantee that those EVs are primarily used or charged within those FSAs.

b) Hydro Ottawa does not have access to this information and is therefore unable to provide it.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-26

EVIDENCE REFERENCE:

Exhibit 2, Tab 5, Schedule 1 (DSP)

QUESTION(S):

a) Please provide a list of all capital investments that will facilitate the installation of DERs. For each, please provide the amounts budgeted annually and over the rate term. Please also include a column explaining how the investment will facilitate DERs.

RESPONSE(S):

a) Hydro Ottawa's Generation Connections program will facilitate the installation of DERs. Table 14 of Schedule 2-5-6 - System Access Investments provides the amounts budgeted annually and over the rate term. In addition, Hydro Ottawa is proposing specific investments to remove feeder level technical restrictions, as outlined in the response to interrogatory 2-ED-10. For more details on how the investments will facilitate DERs, please refer to Section 5 of Schedule 2-5-6 - System Access Investments.

For a summary of how Hydro Ottawa is promoting increased use of DERs, please see part e) of the response to interrogatory 1-PP-7.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

2-ED-27

EVIDENCE REFERENCE:

Exhibit 2, Tab 5, Schedule 7

QUESTION(S):

a) Please explain and elaborate on the following paragraph n page 135: “Furthermore, the AMI 2.0 system's interoperability supports the integration of DERs like solar panels and battery storage. By seamlessly communicating with these DERs, Hydro Ottawa can monitor and optimize their performance, enabling a more dynamic and flexible grid that can adapt to changing energy demands and supply conditions. This integration is key to supporting decarbonization by facilitating the adoption of renewable energy sources and enabling greater customer participation in energy programs.” Please include example use cases and the role of AMI 2.0 in cost-effective DERMS.

RESPONSE(S):

a) AMI 2.0 provides the foundational capability for achieving increased granularity and visibility into the state and performance of the network. This enhanced visibility, in turn, enables a variety of DERMS use cases, as outlined below.

Enhanced Grid Observability - Through High-Resolution

AMI 2.0 delivers highly granular data pertaining to energy usage and prevailing grid conditions. This data serves as the critical informational input for a DERMS. Without such precise and timely data, a DERMS would operate with significant blind spots, thereby impeding its ability to accurately assess the operational impact of DERs and to formulate optimized control decisions.

The availability of this granular data enables Hydro Ottawa to proactively monitor and optimize localized DER performance, facilitating the early identification of potential issues or opportunities at a highly localized level. This fosters a more adaptable grid that can dynamically respond to changing energy demands and supply conditions.

Optimized Grid Planning and Operations

The rich dataset provided by AMI 2.0 directly enhances the precision and efficiency of grid planning and operational strategies. Moving beyond reliance on aggregated or historical information, Hydro Ottawa can leverage near real-time data to:

- Improved Forecasting: Develop more accurate predictions of evolving energy demand patterns and supply from DERs, leading to superior planning decisions that can confidently incorporate cost-effective non-wires solutions (NWS).
- Localized Congestion Identification: Precisely pinpoint specific areas and times within the grid experiencing high DER penetration or potential constraints.
- Investment Optimization: Facilitate more targeted and cost-effective investments in grid infrastructure upgrades, including NWS.

Facilitating Customer Participation in Energy Management

The increased granularity of near-real time data provided through AMI 2.0 is foundational, and enables Hydro Ottawa to deliver supplemental services and programs that empower customers. For example, providing detailed insights into customer energy consumption allows customers to make informed decisions about optimizing their home/business energy use. This could include adopting or operating a DER technology like a heat pump or electric vehicle. These insights are also paramount for successful customer engagement and enrollment in DER and NWS programs deployed by a utility. This highly granular data enables ancillary services that allow Hydro Ottawa to disaggregate load profiles at granular levels within the distribution system, facilitating targeted deployment of programs based on data-driven energy profiles or known end-uses within a home or business.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

3-ED-28

EVIDENCE REFERENCE:

Exhibit 3, Customer and Load Forecast

QUESTION(S):

a) Please list the differing assumptions and methodologies used when forecasting peak load for the purposes of billing determinants and for assessing capital needs at the various levels of the electricity system (e.g. transmission, large scale distribution, street-level distribution). For each, please ensure that assumptions regarding distributed energy resources (e.g. whether they are assumed to be generating, not generating, or otherwise).

b) If a residential customer increases their service (e.g. from 40 amp to 200 amp), how will that impact the various peak load forecasts (if at all). For the purpose of this question, please assume that the customer's peak and annual load remains the same. The purpose of this question is to determine whether efforts to help customers avoid service upgrades when electrifying heating or transportation can help reduce costs driven by peak demand in any part of the electricity system.

c) Please provide a table showing for each customer class: the number of customers, the annual demand, and the peak demand, including historical figures for the past 5 years and forecast figures for as long as is available. If possible, please include a breakdown of summer and winter peak demand.

RESPONSE(S):

a) For assumptions and methodologies used when forecasting revenue load and distributed energy resources for the purpose of billing determinants, please refer to Section 2 of Schedule 3-1-1 - Revenue Load and Customer Forecast.

For assumptions and methodologies used to forecast system capacity and determine capital needs or capacity needs of the system, please refer to Section 9.4 of Schedule 2-5-4 - Asset Management Process. In terms of DER forecasts and its consideration in peak load forecasts, anticipated DERs, BESS and Non-Wires Customer Programs are expected to offset forecasted peak loads; however, the dependability and volume is not yet certain. For more details on how DERs and Non-Wire Solutions will help to offset peak loads please refer to the interrogatory response 2-Staff-112, part (b).

For the various levels of the electricity system mentioned in the question it is important to note that Hydro Ottawa is not responsible for transmission level planning. This is led by the IESO as part of the Integrated Regional Resource Planning (IRRP) working group of which Hydro Ottawa is an active member. More details on this process and how this working group helps identify the current and future capacity needs of the Greater Ottawa Area can be found in Section 4 of Schedule 2-5-2 - Coordinated Planning with Third Parties.

b) If a residential customer increases their service size, this would not impact the peak load forecasts since Hydro Ottawa's load forecasting process does not consider the forecast contribution to coincident system peak demand from individual customers. Please refer to the interrogatory response 2-ED-15, part (a) for more details.

c) For tables which display the Historical annual average number of customers and the annual demand (kW) for classes billed on kW, see Table A and B below. Bridge and Test Year average number of customers and annual demand can be found in Schedule 3-1-1 - Revenue Load and Customer Forecast. This data is also provided in Attachment 1-Staff-1(A) - Chapter 2

Appendices on the Appendix 2-IB - Load Forecast Analysis tab for Historical[1], Bridge and Test years.

Hydro Ottawa does not track peak demand by rate class. Please also see response to interrogatory BOMA-3 (d).

Table A - 2020-2024 Average Number of Customers and Connections

	Historical				
	2020	**2021**	**2022**	**2023**	**2024**
Residential	314,681	321,187	327,459	332,883	338,949
GS <50kW	25,131	25,243	25,488	25,664	25,750
GS 50-1499kW	3,170	3,186	3,045	3,067	3,032
GS 1500-4999kW	65	68	60	64	69
Large Use	11	11	10	10	10
TOTAL CUSTOMERS	**343,058**	**349,695**	**356,062**	**361,688**	**361,688**
Street Lights	61,799	62,571	63,509	64,008	64,368
Sentinel Lights	56	53	53	50	49
USL	3,376	3,590	3,685	3,820	4,035
TOTAL CONNECTIONS	**65,231**	**66,214**	**67,247**	**67,878**	**67,878**

Table B - 2020-2024 Weather Normalized kW

	Historical				
	2020	**2021**	**2022**	**2023**	**2024**
GS 50-1499kW	6,373,283	6,436,436	6,705,455	6,777,247	6,723,445
GS 1500-4999kW	1,397,300	1,413,782	1,409,101	1,494,964	1,559,386
Large Use	1,004,401	1,044,163	996,205	975,352	922,027
Street Lighting	62,925	63,940	61,708	60,526	60,490
Sentinel Lighting	129	122	120	120	120
TOTAL	**8,838,038**	**8,958,443**	**9,172,589**	**9,308,209**	**9,265,468**

[1] Updated with 2024 Historical values

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

4-ED-29

EVIDENCE REFERENCE:

Exhibit 4 (DER facilitating costs)

QUESTION(S):

a) Please provide a list of all forecast operating expenses that will facilitate the installation of DERs. For each, please provide the amounts budgeted annually and over the rate term. Please also include a column explaining how the line item will facilitate DERs.

RESPONSE(S):

a) As stated on page 19 of Schedule 4-1-2 - Operations, Maintenance and Administration Program Costs, $2.8M budgeted for the Non-Wires Programming & System Integration costs will facilitate the installation of DERs in 2026. The costs net of labour recovery for 2026-2030 are included in Table 11 of Schedule 1-3-1 - Rate Setting Framework. Please also see the response to interrogatory 2-Staff-70 part a) for more information.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

7-ED-30

EVIDENCE REFERENCE:

Exhibit 7, Tab 1, Schedule 3 (standby rates)

Preamble:
These questions explore potential alternatives on the current/proposed standby rates with the aim of encouraging DERs that lower total system costs. An alternative could be applied to all standby customers or just new customers with load displacement.

QUESTION(S):

a) What alternatives has Hydro Ottawa considered to charging standby rates?
b) Please discuss the pros and cons of charging coincident demand charges to all customers instead of the current/proposed standby charges (see EB-2015-0043, Staff Discussion Paper, March 31, 2016 for details).
c) Please discuss the pros and cons of charging a Capacity Reserve Charge as described in Ontario Energy Board, Staff Report to the Board, Rate Design for Commercial and Industrial Electricity Customers, EB-2015-0043 (February 21, 2019).
d) Please discuss the pros and cons of a Capacity Allocation approach (i.e., Capacity Contracted for capacity) where the load customer would pay the Capacity Allocation each month and would pay a rachet charge if they ever consume above that. The rachet would also increase the Capacity Allocation for some time period (e.g., 12/24/36 months) to further incentivize the customer to not overconsume during peak demand periods.

RESPONSE(S):

a) Please note Hydro Ottawa's approach is to keep costs and remuneration separately to adhere to the beneficiary pays principle and to encourage beneficial generation rather than providing blanket remuneration. This result encourages non beneficial generation to be allocated their costs while properly remunerating beneficial generation. Separate from its proposal for seeking final standby rates, Hydro Ottawa is also exploring incentives for non-wires solutions where there is benefit to the distribution grid. Please refer to section 9.4 of Schedule 2-5-4 - Asset Management Process and Schedule 6-3-5 - Other Income and Deductions, section 2 for further details.

b) This request falls outside the scope of Hydro Ottawa's application and does not seek clarification on Hydro Ottawa's evidence, documentation, or other information.

This is a request to study an alternative rate design for commercial customers than what has been established by the Ontario Energy Board (OEB). Hydro Ottawa believes this is a generic policy issue that should be addressed by the OEB.

c) In concluding the Standby Rates consultation, the OEB released the Standby Rates Finalization Letter which detailed "Electricity distributors are in the best position to know their system and cost causation and are encouraged to understand their customer needs. If a distributor determines that a standby rate is appropriate, it should propose a design that best fits the circumstances."[1] Hydro Ottawa has proposed a Standby Service Charge that is designed to best fit its circumstances.

d) See response to c).

[1] Ontario Energy Board, *Letter Re: Consultation on Policy for Standby Rates Ontario Energy Board File No. EB-2023-0278* (March 28,2024) Page 4

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

7-ED-31

EVIDENCE REFERENCE:

Exhibit 7, Tab 1, Schedule 3 (standby rates)

Preamble:
These questions explore potential variations on the current/proposed standby rates with the aim of encouraging DERs that lower total system costs. A variation could be applied to all standby customers or just new customers with load displacement.

QUESTION(S):

a) Please discuss the feasibility and pros and cons of only charging standby rates to the extent that a customer's demand exceeds their contracted demand at the time of the coincident system peak. Please discuss how this could encourage customers to refrain from conducting maintenance or other downtime at the time of the distribution system peak.
b) Please analyze three customers subject to standby charges. Please select the one with the largest DER, the smallest DER, and the mid-size DER.[1] For each, please indicate how much they paid in standby charges annually for the past three years. For each, please indicate the number of instances in which backup service was utilized (i) outside of the time of distribution system peak and (ii) at the time of distribution system peak.
c) Please discuss other methods that could be used to encourage customers to refrain from conducting maintenance or other downtime at the time of the distribution system peak. Similarly, please discuss other adjustments to Hydro Ottawa's standby rates proposals that would ensure they are charged only where there is a contribution to the system peak.

[1] If necessary to assure anonymity, please randomly select examples from the top quartile, bottom quartile, and middle quartiles.

d) If Hydro Ottawa were to wish to pilot alternative approaches to standby rates with a small number of new DER customers without rolling out those approaches across the full customer base, what regulatory approvals would be required in this proceeding to allow for the deviations from the standard rate structure required to said piloting? Please provide details.

RESPONSE(S):

a) Please see interrogatory response 7-ED-30 (b). In addition, the current rate design does not allow for adjustments to distribution charges based on customers activity or load requirements during coincident peak hours nor monitored at only their cost at peak hours.

b) For anonymity, Hydro Ottawa has separated its Standby customers based on nameplate capacity and provided the average annual Standby charges for 2024 in Table A. Prior to 2024, the number of standby customers was limited. Please see interrogatory response 7-ED-32 (a) for Historical 2021-2024 annual standby revenue.

Table A - 2024 Average Annual Standby Charges

Total Generation Nameplate Capacity	Average Annual Standby Charge
<1,000 kW	$12,527
>3,000 kW	$97,187

Hydro Ottawa's distribution system peak generally occurs between 3pm and 6pm; these hours were assumed to be "at the time of distribution system peak" (ii). The average number of instances where backup service was provided, i.e. when the customer's generation was off, has been detailed in Table B. Please note the question requested for information related to the system peak, which may not align with the local peak of the assets feeding a specific customer. Therefore, this information may not fully reflect the impact to the local distribution system nor provide the comprehensive insights required for system investment planning.

Table B - 2024 Annual Average Times Backup Service Was Required

Total Generation Nameplate Capacity	Average number of instances at the time of distribution system peak	Average number of instances outside the time of distribution system peak
<1,000 kW	195	1,014
>3,000 kW	217	1,165

c) Please see response to 7-ED-30 question (a).

d) This request falls outside the scope of Hydro Ottawa's application and does not seek clarification on Hydro Ottawa's evidence, documentation, or other information. Hydro Ottawa has not looked into what regulatory approvals would be required. Hydro Ottawa has indicated that it will continue to examine the standby rate as the energy transition progresses as it does with all policy matters.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

7-ED-32

EVIDENCE REFERENCE:

Exhibit 7, Tab 1, Schedule 3 (standby rates)

QUESTION(S):

a) Please provide a table for the past five years and forecast for the next five years showing the revenue generated from standby rates. For at least the historic figures, please provide a breakdown by the type of charge.
b) How many customers are subject to standby rates? How many customers with DERs larger than 500 kW are not subject to standby rates?
c) Please provide a breakdown of the customers subject to standby rates (both # and MW capacity) by generator type (e.g. solar, gas co-generation, battery, gas other, etc.).

RESPONSE(S):

a) Table A details the 2021-2024 Historical, 2025 Bridge and 2026-2030 fixed and variable Standby Revenue.

Table A - 2021-2030 Standby Revenue ($'000s)

	Historical				Bridge	Test				
	2021	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Fixed	$4	$12	$4	$12	$13	$13	$13	$13	$13	$13
Variable	$15	$11	$7	$289	$113	$177	$202	$222	$235	$247
TOTAL	**$19**	**$23**	**$11**	**$302**	**$127**	**$190**	**$216**	**$236**	**$248**	**$260**

b) Hydro Ottawa currently has 6 Standby customers. Hydro Ottawa has 6 customers with generation over 500 kW who do not contract for Standby service and are not subject to standby rates.

c) Table B provides the breakdown of generators which contract Hydro Ottawa for Standby service by fuel type and total kW capacity.

Table B - Generator Fuel Type and Total Nameplate kW

Fuel Type	Number of Generator Units	Total kW
Natural Gas	5	9,866
Solar	1	999
Petroleum Oil	1	7,230

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

8-ED-33

EVIDENCE REFERENCE:

Exhibit 8, Tab 1, Schedule 2, p. 6 (fixed/variable split)

QUESTION(S):

a) Please provide a table showing the proposed fixed monthly service charges and the ceiling (Minimum System with PLCC Adjustment) by rate class (excluding the residential rate class) for each year in the rate term. Please also provide the same information for the past five years (actuals).

b) Is Hydro Ottawa's proposal with respect to the fixed monthly service charges the same as was ordered by the OEB in the previous Hydro Ottawa rebasing decision? Please explain.

c) If Hydro Ottawa's proposals with respect to the fixed monthly service charges differ from what was ordered by the OEB in the previous Hydro Ottawa rebasing decision, please provide the same information provided in response to Environmental Defence interrogatories and undertaking requests relating to the fixed monthly service charge, but adding updated actual figures and updated forecasts for the years within the rate term. (We wish to avoid causing Hydro Ottawa to undertake unnecessary work, so if you are unsure whether this detail is required in light of Hydro Ottawa's proposals, please contact counsel for Environmental Defence.)

d) Please provide all underlying calculations and studies justifying the fixed and variable rates for standby power.

RESPONSE(S):

a) Please see Table A and B below, note that the Residential class has been included to ensure a complete picture is presented.

Table A - Fixed Monthly Service Charges from 2021-2030

	Residential	GS <50	GS 50-1499	GS 1500-4999	Large Use	Street Light	Sentinel	USL	Standby GS 50-1499	Standby GS 1500-4999	Standby Large Use
2021 A	$29.32	$19.76	$200.00	$4,193.93	$15,231.32	$0.96	$3.88	$5.37	$153.14	$153.14	$153.14
2022 A	$30.77	$20.83	$200.00	$4,193.93	$15,231.32	$1.01	$4.63	$5.80	$162.65	$162.65	$162.65
2023 A	$32.14	$21.84	$200.00	$4,193.93	$15,231.32	$1.05	$5.16	$6.24	$171.83	$171.83	$171.83
2024 A	$33.94	$23.15	$200.00	$4,193.93	$15,231.32	$1.11	$5.96	$6.80	$183.33	$183.33	$183.33
2025 A	$34.26	$23.53	$200.00	$4,126.75	$14,946.93	$1.12	$7.02	$7.09	$186.89	$186.89	$186.89
2026 F	$40.88	$27.94	$200.00	$4,126.75	$14,946.93	$1.24	$8.38	$8.10	$186.89	$186.89	$186.89
2027 F	$43.80	$29.93	$200.00	$4,126.75	$14,946.93	$1.20	$8.98	$8.65	$186.89	$186.89	$186.89
2028 F	$47.62	$32.54	$200.00	$4,126.75	$14,946.93	$1.26	$9.76	$9.36	$186.89	$186.89	$186.89
2029 F	$50.40	$34.44	$200.00	$4,126.75	$14,946.93	$1.30	$10.33	$9.90	$186.89	$186.89	$186.89
2030 F	$53.15	$36.32	$200.00	$4,126.75	$14,946.93	$1.34	$10.89	$10.44	$186.89	$186.89	$186.89

Table B - Ceiling Service Charges from 2021-2030

	Residential	GS <50	GS 50-1499	GS 1500-4999	Large Use	Street Light	Sentinel	USL	Standby GS 50-1499	Standby GS 1500-4999	Standby Large Use
2021-2025 A	$ 17.49	$ 22.88	$ 76.46	$ 370.17	$ 455.91	$ 9.12	$ 15.10	$ 9.43	-	$ 118.48	-
2026 F	$ 19.92	$ 26.89	$ 84.53	$ 464.59	$ 2,334.00	$ 6.69	$ 19.66	$ 9.17	$ 21.99	$ 22.00	$ 22.00
2027 F	$ 21.08	$ 28.60	$ 92.42	$ 514.85	$ 2,317.56	$ 7.02	$ 20.62	$ 8.75	$ 22.54	$ 22.54	$ 22.54
2028 F	$ 22.52	$ 30.79	$ 101.97	$ 567.91	$ 2,354.50	$ 7.45	$ 21.77	$ 7.70	$ 23.53	$ 23.53	$ 23.53
2029 F	$ 23.89	$ 32.93	$ 112.14	$ 617.85	$ 2,378.92	$ 7.83	$ 22.71	$ 5.37	$ 24.51	$ 24.51	$ 24.52
2030 F	$ 25.42	$ 35.33	$ 123.65	$ 684.13	$ 2,605.88	$ 8.25	$ 23.88	$ (2.02)	$ 25.57	$ 25.57	$ 25.57

Note in Table B, Hydro Ottawa only calculated the ceiling service charge for 2021-2025 in their 2021 rate application.

b) Yes, Hydro Ottawa's proposal with respect to the fixed monthly service charges is the same as was ordered by the OEB in the previous Hydro Ottawa rebasing decision.

c) See response b).

d) Please see Schedule 7-1-3 - Standby Service Charge. For a description on how Hydro Ottawa's historical Standby rates were set please refer to interrogatory response VECC-60 b). The 2026-2030 fixed and variable rate design proposal is described in Schedule 7-1-3 - Standby Service Charge, Section 4. The rate design for General Service 50-1,499 KW, General Service 1,500-4,999 kW and Large User classes is completed first and then the subsequent Standby volumetric charges are calculated. Please refer to the Revenue Requirement Workforms (RRWFs) Tab '13. Rate Design' submitted as Attachment 1-Staff-1 (M) to (Q) for calculated Standby rates.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

8-ED-34

EVIDENCE REFERENCE:

Exhibit 8, Tab 2, Schedule 1 (RTSRs etc.)

QUESTION(S):

a) Please provide the total transmission charges (i.e. UTRs) paid by Hydro Ottawa over the past five years and a forecast over the next five years. Please also provide a table showing, if those charges were levied on a net load basis (instead of a gross load basis) how much less would they be (approximately, $ and %)?

b) Please list the transmission system upgrades made to serve Ottawa over the past 10 years and forecast over the next 10 years. For each, please indicate the in-service date and the portion of Hydro Ottawa's system that is served by the upgrade.

c) To the extent that Hydro Ottawa's service territory is growing quickly, how can it be said that gross load billing is justified for the UTRs is pays? For example, how can it be said that that distributed generation in Hydro Ottawa territory is causing stranded assets (i.e. assets built for Hydro Ottawa customers that are unused due to load displacement).

d) Please provide excerpts from OEB document justifying gross load billing for UTRs.

e) The OEB has said that Hydro One can seek case-by-case exemptions for gross load billing. Will Hydro Ottawa consider seeking such an exemption in order to lower the UTRs that it is required to pay to Hydro One?

RESPONSE(S):

a) The total transmission charges (including gross load billing adjustments) paid by Hydro Ottawa for the 2020-2024 Historical period are provided in Table A. Table B includes the 2025 Bridge and 2026-2030 Test year amounts for total transmission charges.

Gross load billing adjustments only apply to the Line Connection and Transformation Connection charges. Table C and D display the gross load billing adjustments by amounts and percentage of total transmission connection expense. To estimate the 2026-2030 Test Years gross load billing amounts, Hydro Ottawa applied the historical average percentage of gross load expense included in the connection expenses.

Table A - 2020 - 2024 Transmission Expenses ($'000s)

	Historical Years				
	2020	**2021**	**2022**	**2023**	**2024**
Transmission Network	$ 50,384	$ 54,030	$ 63,081	$ 70,770	$ 75,875
Transmission Connection	$ 35,690	$ 35,810	$ 38,673	$ 43,710	$ 44,595
TOTAL	**$ 86,075**	**$ 89,840**	**$ 101,755**	**$ 114,480**	**$ 120,470**

Table B - 2025-2030 Transmission Expenses ($'000s)

	Bridge	Test Years				
	2025	**2026**	**2027**	**2028**	**2029**	**2030**
Transmission Network	$ 89,195	$ 95,001	$ 97,517	$ 100,297	$ 103,467	$ 106,617
Transmission Connection	$ 49,761	$ 53,225	$ 54,636	$ 56,193	$ 57,970	$ 59,734
TOTAL	**$ 138,956**	**$ 148,226**	**$ 152,153**	**$ 156,489**	**$ 161,437**	**$ 166,351**

Table C - 2020 - 2024 Load Billing Adjustments - $ and % of Transmission Connection Total ($'000s)

	Historical Years				
	2020	**2021**	**2022**	**2023**	**2024**
Line Connection	$ 183	$ 346	$ 251	$ 322	$ 227
Transformation Connection	$ 438	$ 830	$ 823	$ 1,028	$ 766
Total Included in Transmission Connection	**$ 621**	**$ 1,176**	**$ 1,074**	**$ 1,349**	**$ 993**
Line Connection - %	0.37%	0.69%	0.50%	0.65%	0.46%
Transformation Connection - %	0.88%	1.67%	1.65%	2.07%	1.54%
Total Gross Load Adjustment %	**1.25%**	**2.36%**	**2.16%**	**2.71%**	**1.99%**

Table D - 2025-2030 - $ and % of Transmission Connection Total ($'000s)

	Bridge	Test Years				
	2025	**2026**	**2027**	**2028**	**2029**	**2030**
Line Connection	$ 258	$ 284	$ 292	$ 300	$ 309	$ 319
Transformation Connection	$ 871	$ 831	$ 853	$ 877	$ 905	$ 933
Total Included in Transmission Connection	**$ 1,129**	**$ 1,115**	**$ 1,145**	**$ 1,177**	**$ 1,215**	**$ 1,252**
Line Connection - %	0.43%	0.53%	0.53%	0.53%	0.53%	0.53%
Transformation Connection - %	1.46%	1.56%	1.56%	1.56%	1.56%	1.56%
Total Gross Load Adjustment %	**1.89%**	**2.10%**	**2.10%**	**2.10%**	**2.10%**	**2.10%**

b) As per Attachment 2-5-2(A) - Hydro Ottawa - Planning Status Letter 2025, Hydro One is the lead transmitter for the Greater Ottawa Region and Hydro One is responsible for owning and operating the high voltage transmission lines that transport electricity across Ontario including Hydro Ottawa's service area. The need for transmission system expansions and modifications to serve Hydro Ottawa's customers is identified and carried out by Hydro One in accordance with regional plans and the Transmission System Code. For the regional plans, please refer to the IESO's 2015 and 2020 Ottawa Sub-Region Integrated Regional Resource Plans. Based on these regional plans, over the past decade (2015-2025), Ottawa's electricity transmission system has undergone several key upgrades to enhance reliability and capacity. Notable

improvements include the installation of a 230 kV circuit breaker at Almonte TS (2015) and upgrades to circuit S7M (2017) to improve supply to the Nepean/Kanata area. The downtown core saw reinforcement with transformer replacements at Overbrook TS (2018) and the rebuilding of circuit A5RK (2019). Regional supply was bolstered by higher-rated transformer installations at Hawthorne TS (2019-2021) and the upgrading of 230 kV circuits M30A and M31A (target 2022). In 2022, transmission line upgrades for the new Hydro Ottawa station, Cambrian MTS, were completed and brought online to meet the increasing demand in southwest Ottawa.

Looking ahead to the next decade (2025-2035), significant investments are planned to further strengthen and expand the network. Near-term projects include the replacement of transformers at Lincoln Heights TS (2025) and Albion TS (2026) in central Ottawa, along with the construction of connections points to new Hydro Ottawa stations such as Piperville MTS (2026) in southeast Ottawa and Mer-Bleue MTS (2027) in Orléans. By 2029, a comprehensive suite of solutions is anticipated, including a new Hydro Ottawa-owned 230 kV Kanata North MTS and an associated transmission line from Merivale TS, to address substantial capacity needs in the Kanata-Stittsville area. Other 2029 initiatives include the construction of three new Hydro Ottawa owned stations with associated transmission upgrades: a new 115 kV Bronson MTS in the downtown core, the conversion of Cyrville MTS from 115kV to 230 kV, and the construction of Greenbank MTS to serve the core west subsystem. Further station rating increases are planned for South March, Carling, Lisgar, Moulton, and Russell. These future upgrades aim to ensure continued reliability, capacity, and resilience across the entire Hydro Ottawa service territory. Please refer to the IESO's 2025 Ottawa Sub-Region Integrated Regional Resource Plan published on July 31st 2025, for further details.

c) Hydro Ottawa has not proposed gross load billing of UTR's at this time, nor did it state distributed generation is currently resulting in stranded assets related to gross load billing. Rather, Hydro Ottawa has flagged the concern that distribution assets may be constructed to support load where later generation is installed to offset Provincial Grid needs or specific customer energy decisions, resulting in payments to Hydro One for transmission gross load

billing. Local Distribution Companies (LDCs) transmission gross load billing adjustments are not charged at a service territory level, therefore it can not be assured that generation is placed where it provides benefits to the distribution grid regardless of the growth in Hydro Ottawa's service territory. In addition, it will not limit Transmission Gross Load Billing.

Per Hydro Ottawa's recent presentation at the Distribution System Operators (DSO) presentation day on June 23, 2025[1], observability, coordination and appropriate incentives are required to encourage beneficial DERs on LDC grids. Hydro Ottawa advocates for a strategic, technically-informed evolutionary path that prioritizes real-time coordination, market enablement, and consumer protection to unlock the full potential of DERs for Ontario's grid. However, where distribution benefit is not being achieved nor the driving investment decision, local rate payers should not be required to absorb the cost and the cost should be part of the benefiting generator business plan and costs.

d) The OEB first approved gross load billing of transformation connection charges as part of RP-1999-0044, Section 3.2.39 "The board therefore finds that for load customers with new embedded generation the charges for Transmission Line and Transformation Connection service should be based on gross load billing."[2] Annually, the OEB-approved UTR rate schedule authorizes the gross load billing of Transmission Line and Transformation Connection charges for embedded generation.[3]

e) Where available and appropriate, Hydro Ottawa would apply for any exemption. However, per Decision and Order EB-2022-0325, the OEB decided to evaluate pathways for exempting gross load billing, but did not make a final decision.[4] Hydro Ottawa notes that the Uniform Transmission Rates Phase 2 Working Group responded with a set of recommendations on July

[1] Ontario Energy Association, *OEB DSO Consultation Presentation*, (June 23, 2025).
[2] Ontario Energy Board, *Decision with Reasons Application by Ontario Hydro Networks Company Inc., for an Order or Orders approving year 2000 transmission cost allocation and rate design.* RP-1999-0044 (May 26, 2000) Page 35
[3] Ontario Energy Board, *2025 Ontario Uniform Transmission Rate Schedules*. EB-2024-0244 Page 3
[4] Ontario Energy Board, Generic Hearing on Uniform Transmission Rates - Phase 2. EB-2022-0325 (March 27, 2025) Page 35-36.

11, 2025.[5] As such, Hydro Ottawa cannot proceed with work on gross load billing exemptions until the OEB reviews the recommendations and issues a final decision on the matter.

Based on the working groups recommendations, the exemption appears to be limited at this time. Some working group members appeared to be in favour of this outcome. As such, this potential limited outcome would not safeguard rate payers from generation that was not benefiting the local distribution grid needs.

[5] UTR Phase 2 Working Group, Working Group Report to the OEB Uniform Transmission Rates - Phase 2, EB-2022-0325 (July 11, 2025).

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

8-ED-35

EVIDENCE REFERENCE:

Exhibit 8, Tab 2, Schedule 1 (RTSRs etc.)

QUESTION(S):

a) Please confirm whether Hydro Ottawa proposes to charge RTSRs to its customers on a gross load basis (versus a net load basis)? Please explain why or why not.

b) If yes, please provide the following:

   i) The breakdown of customers subject to gross load billing for RTSRs by generator type (i.e. solar, gas, etc.) for both the amount and capacity (# & MW).

   ii) The amount that Hydro Ottawa collected annually for each of the past five years, and forecasts to collect over the next five years, is attributable to gross load billing of RTSRs (i.e. gross load amounts minus net load amounts).

   iii) Will Hydro Ottawa consider exemptions from gross load billing on a case-by-case basis? If yes, what criteria will it apply?

RESPONSE(S):

a) Hydro Ottawa proposes to charge retail service transmission rates (RTSRs) to its customers on a net load basis. However, Hydro Ottawa will continue including the recovery of gross load billing adjustment amounts from Hydro One in the calculations for Hydro Ottawa's proposed RTSR rates.

b) Please see response to a).

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

8-ED-36

EVIDENCE REFERENCE:

Exhibit 8, Tab 2, Schedule 1 (RTSRs etc.)

QUESTION(S):

f) Please confirm whether Hydro Ottawa proposes to charge rates aside from RTSRs to its customers on a gross load basis (versus a net load basis)? Please explain why or why not.

g) Please provide the total transmission charges paid by Hydro Ottawa over the past five years and a forecast over the next five years. If those charges were levied on a net load basis (instead of a gross load basis) how much less would they be (approximately, $ and %).

RESPONSE(S):

Hydro Ottawa confirms that no sub-parts from a) to e) were requested for this interrogatory.

f) Hydro Ottawa is not proposing to charge any rates on a gross load basis (GLB) in this rate application. Hydro Ottawa supports the use of GLB for RTSRs where appropriate.

Hydro Ottawa has not studied the use of GLB related to other rates for this application with the exception of standby, for which some customers would unreasonably be charged a higher cost. However, more studies in the future may be required as the energy transition continues to develop. In addition, HOL will monitor rate design of all rates as the energy transition progresses.

g) Refer to interrogatory response 8-ED-34 a).

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

8-ED-37

EVIDENCE REFERENCE:

Exhibit 8 (service charges) & Exhibit 2 (NWS)

QUESTION(S):

a) Please provide a list of all approved and proposed service charges that are related to or triggered by DER connections.

b) Please provide a list of all charges that Hydro Ottawa levies on customers connecting distributed energy resources (i.e. BTM generation). Please divide the charges by DER category (i.e. micro, small, medium, etc.) and include a breakdown by type of charge (application fees, meter replacement, connection impact assessments, commissioning, etc.). For each category, please indicate whether it is a fixed fee or a variable fee (i.e. payment for work at cost). For variable fees, please provide the average amount charged over a convenient period of applications (e.g. the past five years).

c) Please provide the total amounts charged to generation connection customers in the small facility category for each year in the past five years, the kW of generation connected, and the $/kW on average each year

d) Please provide copies of the regulatory documents authorizing the various fees referenced in (a) and (b) and indicate the relevant section.

e) Please provide a copy of the Hydro Ottawa interconnection procedures applicable to distributed energy resources. Please prepare a table comparing those procedures with the Interstate Renewable Energy Council's Model Interconnection Procedures (2023).[1]

[1] https://irecusa.org/wp-content/uploads/2023/08/IREC-Model-Interconnection-Procedures-2023-FINAL 8.23.23.pdf

RESPONSE(S):

a) Please refer to Schedule 8-4-2 - Generation Charges Table 1 for Hydro Ottawa's 2025 Approved and 2026-2030 proposed monthly generator service charges.

b) Please refer to Table A below for the current estimated DER Connection cost recovery charges. The Micro DER charges are fixed fees (based on average cost and updated on regular intervals), the remaining are variable fees. The average total costs for generation connection projects over 10 kW between 2020-2024 was $20,639.

Table A: 2025 Estimated DER Connection Charges (Pre-tax)

Cost Items	Generator Size			
	Micro (<10 kW)	**Small (≤500 kW connected at <15kV, OR ≤1,000 kW if connected at ≥ 15kV)**	**Medium (>1 MW to <10 MW)**	**Large (> 10MW)**
Connection Impact Assessment (CIA)	NA	$1,000	$4,750	$5,700
Materials & Equipment	$301.30	$14,400	$195,000	$195,000
Labor	$262.94	$8,200	$159,500	$159,500
Outside Services	NA	NA	$143,000	$143,000
TOTAL	**$564.24**	**$22,600**	**$502,250**	**$503,200**

Notes:

- Materials & Equipment: This category includes bi-directional meter, Monitoring & Control Box (MCB), Microhard, and Antenna, as applicable. For micro-generation projects, this refers to the bi-directional meter. For medium and large generation projects, a transfer switch is included. Equipment (trucking) is also accounted for in this category.
- Labor: This covers the time of the Designer/Project Manager, technicians, and the work required for pre-commissioning and commissioning. For micro-generation projects, this specifically refers to the labor for meter installation.

- Outside Services: For medium and large generation projects, this category includes costs for consultants and contractors.
- Additional Charges: Any work falling outside of a typical scope (e.g. service upgrades, system expansion) will incur additional charges.

c) Hydro Ottawa tracks generation projects as Micro generation (10kW or less) and Generation more than 10 kW. Table A includes the Historical 2020-2024 generation connection costs[2], the total kW connected and a calculated $/kW based on the 5 year total for generation more than 10kW. Many of the generation connection projects span over multiple years, as such only the $/kW for the 5 year total has been calculated below.

Table A - 2020-2024 Generation Connection Costs

Year	Generation Connections	kW Connected	$/kW
2020	$208,525		
2021	$427,748		
2022	$132,955		
2023	$76,973		
2024	$146,885		
TOTAL	**$993,086**	**22,921**	**$43.33**

d) Hydro Ottawa's generation service charges described in (a) are approved annually by the OEB in its distribution rate applications For the connection charges outlined in (b); detailed in Hydro Ottawa's Conditions of Service[3] cost responsibilities of Hydro Ottawa and the Customer for the DER Connection and related protections to ensure the safety of the public, employees and security of the system shall be in accordance with the Distribution System Code.

[2] Generation projects can include both capital costs included in System Access, Schedule 2-5-5: Capital Expenditure Plan (page 38) or work for other costs recorded in Other Operating Revenue USofA 4330.
[3] Hydro Ottawa, *Conditions of Service - Section 3.4 Distributed Energy Resource*, (January 16, 2023), Pages 112-115.

e) As a licensed electricity distributor in Ontario, Hydro Ottawa operates under the regulatory framework of the OEB and the DSC. As such, Hydro Ottawa's interconnection procedures are developed in accordance with these provincial regulations and standards, which differ from the IREC Model Interconnection Procedures with specific details, legal references, and regulatory framework tailored to the United States. At this time Hydro Ottawa cannot provide a direct comparison to the IREC model procedures.

Hydro Ottawa is committed to transparency and provides comprehensive documentation regarding its DER interconnection processes and technical requirements. Relevant documents can be found on the Hydro Ottawa website[4,5] including:

- DER Connection Procedures[6]: Outlining the steps for connecting DERs, including preliminary consultation, Connection Impact Assessments (CIA), and connection agreements.
- Technical Guideline for Customer Owned Standby Generation (ECG0002)
- DER Technical Requirements (ECG0006)
- Secondary Revenue Metering Specification (GCS0008)
- DER Service Options (GDS0018)
- Standard DER Commissioning Guide (ECG0024)
- Simplified DER Commissioning Guide (ECG0023)

These documents provide detailed information on the technical specifications, application processes, and standards that customers must adhere to when connecting DERs to Hydro Ottawa's distribution system.

[4] Hydro Ottawa Website, “DER connection process & application forms”, https://hydroottawa.com/en/accounts-services/distributed-energy-resources-ders/der-connection-process-application-forms.
[5] Hydro Ottawa Website, “DER standards, agreement & other resources”, https://hydroottawa.com/en/accounts-services/distributed-energy-resources-ders/der-standards-other-resources
[6] Ontario Energy Board, *Distributed Energy Resources Connection Procedures - Version 2*, (January 27, 2025).

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

8-ED-38

EVIDENCE REFERENCE:

Exhibit 8 (service charges) & Exhibit 2 (NWS)

QUESTION(S):

a) What changes to its connections procedures, costs, and thresholds is Hydro Ottawa implementing (or considering to implement) in order to meet the province's DER goals and DER strategy as set out in its Integrated Energy Plan?
b) Please confirm that Hydro Ottawa is able to treat DERs with a nameplate capacity of above 10kW as a micro-generation connection. Please provide the relevant DSC section.
c) Is Hydro Ottawa willing to implement (or consider implementing) a policy to treat all DERs with a nameplate capacity of up to 20 kW as a micro-generation connection? Please explain, including a discussion of whether this would be directionally consistent with IREC recommendations,[1] consistent with the system impacts of smaller DERs, and improving the ratio of connection costs to total project costs for small DERs.
d) If not, is Hydro Ottawa willing to consider otherwise raising the threshold/criteria for micro-generation connections?

RESPONSE(S):

a) Ontario's Integrated Energy Plan, titled "Energy for Generations: Ontario's Integrated Plan to Power the Strongest Economy in the G7",[2] was released by the Government of Ontario on June

[1] https://irecusa.org/wp-content/uploads/2023/08/IREC-Model-Interconnection-Procedures-2023-FINAL 8.23.23.pdf
[2] Ontario Ministry of Energy and Mines, "Energy for Generations: Ontario's Integrated Plan to Power the Strongest Economy in the G7" (June 12, 2025), ontario.ca/page/energy-generation

12, 2025. As such, Hydro Ottawa has not had time to fully assess the Integrated Energy Plan. Hydro Ottawa will implement and/or make changes to DER connection procedures based on OEB directives.

b) Hydro Ottawa is not able to treat DERs with a nameplate capacity above 10kW as a micro-generation connection. Section 1.2 of the DSC defines a micro-embedded generation facility as an embedded generation facility with name-plate rated capacity of 10 kW or less.[3] A Distributed Energy Resource[4] (DER) is defined as an electricity source that is connected to a distribution system for the purpose of providing energy, typically through a connection on the customer-side of an ownership demarcation point. Please see part c) of this response for further information.

c) Hydro Ottawa adheres to the classification outlined in Section 1.2 of the DSC,[5] which defines micro-embedded generation facilities as those with a nameplate rated capacity of 10 kW or less. Currently, Hydro Ottawa is not deviating from the DSC to classify all DERs with a nameplate capacity up to 20 kW as micro-generation connections. To facilitate the connection of smaller DERs and enhance the cost-effectiveness of connection relative to total project costs, Hydro Ottawa implemented a Simplified Connection Impact Assessment (CIA) process on June 2, 2025.[6] This streamlined process reduces the cost and timeline for a Connection Impact Assessment for eligible DERs. The Simplified CIA applies to:

- Single-phase DERs > 10 kW and ≤ 30 kW
- Three-phase DERs connecting to a supply feeder with a voltage less than 15kv
  - > 10 kW and ≤ 50 kW
- Three-phase DERs connecting to a supply feeder with a voltage of 15 kv or greater
  - > 10 kW and ≤ 100kW

[3] Ontario Energy Board, *Distribution System Code*, (Updated May 5, 2025), page 14.
[4] Ontario Energy Board, *Distributed Energy Resources Connection Procedures Version 2*, (January 27, 2025), page 3.
[5] Ontario Energy Board, *Distribution System Code*, (Updated May 5, 2025), page 14.
[6] Ontario Energy Board, *Distributed Energy Resources Connection Procedures Version 2, Appendix E - Simplified Connection Impact Assessment*, (January 27, 2025), page 49.

For further details regarding the eligibility criteria for the Simplified CIA, please see the OEB's Distributed Energy Resources Connection Procedures.[7]

d) See response in part c) above.

[7] Ontario Energy Board, *Distributed Energy Resources Connection Procedures Version 2, Appendix E - Simplified Connection Impact Assessment*, (January 27, 2025).

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

8-ED-39

EVIDENCE REFERENCE:

Exhibit 8, Tab 2, Schedule 3, Attachment B (system losses plan)

QUESTION(S):

a) Please estimate on a best efforts basis the reduction in losses (kWh and annual peak kW) and the savings to customers ($) arising from Hydro Ottawa's actions taken as a direct result of its distribution system loss analysis over the rate term. Please include the underlying analysis
b) Please list the actions Hydro Ottawa has taken and plans to take as a direct result of its distribution system loss analysis over the rate term. For future work, please provide the timeline.
c) Please file a copy of the CIMA+ study report and results, along with any associated slide decks.
d) Please provide a table comparing the (i) methodology, (ii) scope, (iii) high-level results, and (iv) recommendations of the CIMA+ study conducted by Hydro Ottawa and the CIMA+ losses study conducted by Burlington Hydro (available in its application materials at Exhibit 8, Appendix C). For any elements of the study for Burlington Hydro that were not included in the Hydro Ottawa study, is Hydro Ottawa considering whether to incorporate those in a future study?
e) CIMA+ studied 10 of Hydro Ottawa's feeders. Will Hydro Ottawa be extrapolating the findings and recommendations to all Hydro Ottawa feeders? If yes, please explain how and the timeline.
f) Please list the recommendations and conclusions of CIMA+ and indicate for each whether Hydro Ottawa agrees, and where applicable, will be implementing the recommendation.
g) Hydro Ottawa's System Losses Plan includes a number of steps/actions that Hydro Ottawa states that it intents to take. Please provide a table listing each of those with a column showing the current status and the outcome, including whether implementation is complete or pending.
h) Please estimate the percentage of losses from the primary voltage distribution lines versus elsewhere in the Hydro Ottawa system.

i) What other incremental steps is Hydro Ottawa planning with respect to losses over the upcoming rate term?

j) Is Hydro Ottawa open to retaining CIMA+ to conduct a review of the implementation of its recommendations?

RESPONSE(S):

a) Distribution losses are calculated based on the difference between electricity purchases and sales (refer to Section 2 of Schedule 8-2-3 - Loss Adjustment Factors). Hydro Ottawa acknowledges that it does not measure or model its distribution losses throughout its territory and would not be able to provide an estimate of the reduction in distribution losses as a result of the sum of actions taken to reduce distribution losses, as it would be impractical to do so. This is supported by the Ontario Energy Board's 2008 report titled "Ontario Electricity Distributor Practices Relating to Management of System Losses," Key Findings section.[1]

b) Hydro Ottawa has taken and plans to take the following actions to mitigate system losses as a direct result of its distribution system loss analysis over the rate term:

- **Power factor correction:** In 2021, Hydro Ottawa conducted a study at the Kanata Municipal Transmission Station (MTS) using Sentient Energy's GEMS®+ENGO® solution to measure benefits like voltage support, capacity reduction, energy savings, and technical loss reductions. It was determined that the solution is not a cost-effective solution to mitigate system losses. No future work is planned.
- **Load balancing:** Hydro Ottawa completed a study on system-wide feeder imbalance and established a phase-wise plan for load-balancing efforts. Load balancing is part of the Feeder Phase Balancing Program listed in the 2026-2030 application (refer to Section 3.4.1 of Schedule 2-5-8 - System Service Investments).
- **Reconductoring:** Hydro Ottawa performs reconductoring during projects under the Capacity Upgrade programs in Schedule 2-5-8 - System Service Investment. In the

[1] Ontario Energy Board, *Ontario Electricity Distributor Practices Relating to Management of System Losses, Regulatory Audit Office - Key Findings Section*, (June 23, 2008), pages 1-3.

2026-2030 period, undersized conductors for ten different feeders are planned for upgrade (refer to Section 2.5.2 of Schedule 2-5-8 - System Service Investments).

- **Voltage conversion:** While not solely for loss reduction, voltage conversion is recommended for end-of-life assets and helps reduce system losses. Voltage conversion projects are planned for the 2026-2030 period for Greenbank MTS, Bronson DS, and Kanata MTS (refer to Section 2 of Schedule 2-5-8 - System Service Investments) and for end-of-life stations Fisher AK, Dagmar AC, Henderson UN, Church AA, and Vaughan UG (refer to Table 6, page 46-47 of Schedule 2-5-7 - System Renewal Investments).
- **Unmetered load service:** The review of historical data, internal processes, and site visits to confirm the status of connected unmetered load services is complete. Hydro Ottawa continues working with external stakeholders to confirm legacy units and load profiles. No additional work on unmetered load services is planned for the 2026-2030 period. (refer to Section 5 of Schedule 8-2-3 - Hydro Ottawa System Losses Plan).

c) Hydro Ottawa has provided the CIMA+ report titled “Distribution System Loss Analysis” as Attachment 8-ED-39(A) - Distribution System Loss Analysis Jan 24, 2022. There are no associated slide decks.

d) Hydro Ottawa declines to respond on the basis that the request is not relevant. This request falls outside the scope of Hydro Ottawa's application and does not seek clarification on Hydro Ottawa's evidence, documentation, or other information. While the studies were conducted by the same consultant, CIMA+, Burlington Hydro’s request for a distribution loss study would have been tailored to its own system's needs. Hydro Ottawa does not have specific knowledge of Burlington Hydro’s distribution system.

e) As a result of the CIMA+ study, Hydro Ottawa has implemented plans and extrapolated the findings and recommendations across our system. Please refer to response 8-ED-39 part b) above for details on the plans based on the recommendations.

f) Hydro Ottawa agreed with the recommendations from CIMA+’s report. For a list of the CIMA+ conclusions and recommendations, see Attachment 8-ED-39(B) Distribution Losses Analysis

Jan 24, 2022, sections 6 and 7, respectively. For additional details on the implementation of the recommendations, refer to Section 5 of Schedule 8-2-3 - Loss Adjustment Factors.

g) Hydro Ottawa's 2022-2025 System Losses Plan outlined the following actions, their status, and outcomes (see Table A - Hydro Ottawa's 2022-2025 System Losses Plan).

Table A - Hydro Ottawa's 2022-2025 System Losses Plan

Action to Mitigate System Losses	Status	Outcome / Expected Outcome
Power Factor Correction	Study completed in 2021 at Kanata MTS. Future capital replacement programs will continue to incorporate embedded power factor correction controls. No further implementations are planned.	Annual line loss reduction of 20 MWh (June 2018-May 2019) and 17.6 MWh (June 2019-May 2020) at Kanata MTS. Standalone capital investments for this solution are not proposed based on line loss reduction alone.
Load Balancing	A study was completed to review system-wide feeder imbalance, and a phase-wise plan is in place. Optimal feeder configuration analysis for the first 56 feeders (those >60% loaded with >10% imbalance) to be completed by Q2 2023. System changes related to feeder balancing are to be completed by the end of 2025. In 2025, Hydro Ottawa completed load balancing at feeders at Carling SM and Bronson SB to bring the imbalance between phase below 10%. One station feeder work is pending for 2025 at Jockvale DS.	Initially, the estimated yearly savings of 7,700,000 kWh in losses once all balancing is completed. The initial estimate for the first phase of load balancing for 56 feeders was approximately $95,000. As part of the Feeder Phase Balancing program, system losses saved as a result of phase balancing are not determined. Feeder phase balancing is an initiative within the Distribution Enhancement program. For program costs refer to Schedule 2-5-8 - System Service Investments, section 3.5.
Reconductoring	Completed during projects such as Limebank and Leitrim, and Fallowfield and Cambrian when assets reach end-of-life.	No outcomes are measured or estimated for system loss improvements as a result of reconductoring efforts.

Action to Mitigate System Losses	Status	Outcome / Expected Outcome
	Reconductoring continues to be completed when additional capacity is needed, maintenance arises, or assets reach	
Voltage Conversion	Voltage conversion projects are currently ongoing at Dagmar AC and Fisher AK and will carry into the next rate period. Additional voltage conversion projects planned for the 2026-2030 period include Greenbank MTS, Bronson DS, and Kanata MTS (refer to Schedule 2-5-8 System Service Investments, section 2) and for end-of-life stations Fisher AK, Dagmar AC, Henderson UN, Church AA, and Vaughan UG (refer to Schedule 2-5-7 - System Renewal Investments, Table 6, page 46-47)	Improves power quality and minimizes losses. Allows Hydro Ottawa to serve more customers safely and reliably while accommodating growth. Projects can be combined with reconductoring. Specific projects and their statuses include: Richmond South (Completed), Fisher (In-progress, 8,000,000 kWh yearly line loss reduction), Beaverbrook (In-progress, 140,000 kWh yearly line loss reduction), South Nepean (Planned), and Dagmar (Planned, 11,000,000 kWh yearly line loss reduction). No outcomes are measured or estimated for system loss improvements as a result of voltage conversion efforts.
Unmetered Load Service Review	Work began in Q3 2022 and is expected to be completed by 2025.	The review of historical data, internal processes, and site visits to confirm the status of connected Unmetered Load Service is complete. Hydro Ottawa continues to work with external stakeholders to confirm legacy units and load profiles (refer to Schedule 8-2-3 – Loss Adjustment Factors, section 5). No outcomes are measured or estimated for improvements to data and processes for Unmetered Load Services.
Project Optimization	"Improved System Losses" was not included as a criterion in the project evaluation and prioritization process. It	Hydro Ottawa uses recognized industry standards to specify equipment. The industry standard minimizes equipment

Action to Mitigate System Losses	Status	Outcome / Expected Outcome
	was deemed that equipment specification minimizes system losses by using industry standards.	losses. By using and selecting this equipment, Hydro Ottawa uses best practices to minimize losses.

h) Hydro Ottawa recognizes that losses from the primary voltage distribution lines are considered technical losses and losses elsewhere in the Hydro Ottawa system would be considered technical and non-technical losses. However, it is not able to provide a reasonable estimate of the percentage of losses from the primary voltage distribution lines versus elsewhere in the Hydro Ottawa system. Refer to a) above.

i) Other than the steps listed in the System Losses Plan (refer to response g) above), Hydro Ottawa is not planning other incremental steps for losses over the upcoming rate term.

j) Hydro Ottawa is open to retaining CIMA+ or an external party to conduct a review of the implementation of the system loss strategies under specific circumstances.

A review of this nature would be considered in the context of future strategic needs where an external, independent assessment would provide significant value, such as to validate a new loss mitigation methodology against existing ones, or to inform a major capital investment decision. At this time, we are confident that Hydro Ottawa is implementing cost-effective solutions and is effectively managing its system loss strategy.

HYDRO OTTAWA LIMITED

DISTRIBUTION SYSTEM LOSS ANALYSIS

January 24, 2022

C16-00172

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Distribution System Loss Analysis

Loss Modelling and Mitigation Review for A Sample of Nine Feeders

Project no C16-00172 | File no 700

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1. Executive Summary

Energy losses in a distribution system include transformation losses at the transmission connected stations, feeder line losses, distribution transformation losses, and secondary line losses. All of these components contribute to the distribution losses of an LDC in Ontario.

In November of 2021, CIMA+ was engaged to focus on the distribution feeder line losses and provide Hydro Ottawa (HOL) with a review these losses for ten (10) selected feeders that would offer a cross section view of the feeders in the HOL distribution system. The review was to calculate the theoretical losses based on the peak demand and associated feeder data provided by HOL and from that analysis, review and assess possible mitigation measures that could reduce the calculated primary line losses.

The set of sample feeders was chosen by HOL to represent the distribution voltage classes of 4.16kV, 8.32kV, 13.2kV and 27.6kV as well as to sample based on rural, urban, length, and loading. HOL supplied CIMA+ with the CYME computer models, single line diagrams, and peak feeder loading information for all selected feeders. One of the selected feeders had some issues in the CYME modelling, so it was removed from the study leaving nine (9) feeders to be reviewed.

The base case losses, under peak demand, were calculated within CYME for each feeder and these were used as a comparator for gauging the impact of proposed loss mitigation measures that would be applied to the CYME models.

A number of mitigation measures were considered for each feeder based on the calculated total losses and the feeder data supplied by Hydro Ottawa. The potential mitigation measures included phase load balancing, voltage conversion, power factor correction, and re-conductoring. Changes were made to the CYME models to allow the impacts of each mitigation measure to be recalculated for comparison against the base case findings.

Based on the base case analysis discussed and the possible loss mitigation measures explored and reviewed for each of the nine (9) selected feeders, we found that:

- Of the nine (9) feeders selected by Hydro Ottawa for the Loss Mitigation Review, three feeders (MWDF3, FAL04, 4F5/BLKF5) were found to offer no significant options to reduce the feeder losses.
- The MWDF3 and FAL04 feeders are currently operating according to typical LDC requirements and goals, so the only way to reduce the losses would be to reduce the feeder loading by adding more feeders to the areas these serve. This would allow the total area load to be split over more feeders, thus lowering the feeder losses. This measure has significant capital expense and has operational aspects that were not reviewed as part of this study.

- The 4F5/BLKF5 feeder is lightly loaded, and despite a significant phase loading unbalance, the losses are small and do not warrant any mitigation efforts unless the loading situation for the feeder changes in the future.
- Four of the selected feeders (SK16, RNHF3, LTM02, 28F2) could benefit from efforts to correct phase load imbalances. The estimated impacts of such efforts are calculated to be up to a 1% reduction in losses, depending on the feeder characteristics. Load balancing is a relatively low cost effort and can be done on a targeted basis and scheduled as “filler work” if necessary.
- Two of the selected feeders (RNHF3 and LTM02) could also see reduced losses through power factor correction measures. However, the best sizing and best location for capacitor installations on these feeders were not identified as part of this study. The calculated reduction in primary line losses for these measures is approximately 0.75%.
- Simulated efforts to reconductor portions of the UN04 feeder were found to provide minimal reduction in the calculated losses (0.02%). The segments that were found to be undersized were not positioned in the line in a spot to make much impact on losses.

Based on the analysis findings and the conclusions that can be drawn from the results, we offer the following recommendations:

- For the existing 27.6kV feeders that have good power factor and a reasonable load balance of 10% or less, Hydro Ottawa is operating according to the standard best practices of Ontario LDCs and should maintain these efforts into the future.
- For other feeders in the system where power factor and/or load balance are outside of the industry best practices, regular review of these characteristics is recommended to ensure the optimum operation of the distribution system with respect to loss reduction.
- Any power factor correction efforts should include more detailed analysis to determine the optimum size and placement of pole mounted capacitors.
- Load balancing to a 10% target should be an on-going effort to minimize the feeder losses. These efforts can be planned and implemented in stages, with a monitoring period to gauge the effects before moving more loads.
- When considering reconductoring as an option, the amount of conductor and the location of the undersized portions will greatly impact the effectiveness of the mitigation measure.
- Voltage conversion for the sole purpose of reducing losses is not likely to be economic. However, voltage conversion for any feeders nearing end-of-life replacement is strongly recommended.

2. Introduction

Hydro Ottawa Limited (HOL) is a diverse local distribution company (LDC) in Ottawa, Ontario. The HOL service area is over 1,100 square kilometers and serves 350,000 customers. Their system contains multiple voltage levels, including 4.16kV, 8.32kV, 13.2kV, 27.6kV, and 44kV, as well as the substations required to transform the voltage between these levels. The distribution feeders supply a mix of both lightly loaded, long rural lines and dense, heavily loaded urban centers. This diversity of supply voltages and distribution areas poses some difficulty in trying to determine a best course of action to reduce system losses.

The overall goal as stated by Hydro Ottawa is to “endeavour to maintains its five-year average total system losses below the target of 3.02% set by the OEB in EB-2005-0381 through cost effective measures”. The losses that Hydro Ottawa is currently reporting, and the goals set by the company are comparable to other LDCs of similar size.

CIMA+ were engaged to provide Hydro Ottawa with a review of the primary line losses for ten (10) selected feeders that would offer a cross section view of the feeders in the system. The review was to calculate the theoretical losses based on the peak demand and associated feeder data provided by Hydro Ottawa and from that analysis, review and assess possible mitigation measures that could reduce the calculated primary line losses.

Given that the calculated primary line losses are based on peak demand loading for the feeders, the Total Loss values derived in this study are only for comparison to assess the impacts of the mitigation measures and cannot be used for any economic evaluation or cost-benefit analysis for the mitigation measure. In order to calculate the distribution line losses on an energy basis, the CYME models would have to be configured differently with a good deal of additional energy data.

The scope of this study is limited to the examination of line losses on the nine (9) selected feeders provided by Hydro Ottawa.

3. General Discussion of Distribution System Losses

Energy losses in a distribution system include transformation losses at the transmission connected stations, feeder line losses, distribution transformation losses, and secondary line losses. All of these components contribute to the distribution losses of an LDC in Ontario.

The total losses in an electrical system are constantly changing due to physical changes as well as changes in electrical demand. Total losses also include unaccounted usage such as power diversion, un-metered loads (streetlights, sentinel lights), and losses attributable to metering inaccuracy. Reducing distribution system losses is an integral part of operating an LDC and is inherent in many of the day-to-day operating and maintenance decisions that are made. Hydro Ottawa’s operational and construction decisions adhere to best practices which in turn reduce losses or keep them to a minimum.

Distribution losses are inherent in any electricity distribution system, and LDCs are always looking for opportunities to reduce losses in a cost-effective manner. The benefit, in the form of reduced losses, must outweigh the costs of implementing the corrective action. Each LDC will have different thresholds for this measure. Projects undertaken on a distribution system are not usually made just to reduce system losses, but rather as a part of a wholistic improvement plan which looks at other factors such as asset age, load balancing, feeder congestion, and other important operational elements.

3.1 Analysing Losses and Mitigation Strategies

Distribution system losses include Technical Losses and Non-Technical Losses. Technical losses are defined as those attributable to the operation of a distribution system, such as primary voltage line losses, secondary line losses, and transformation losses. Non-Technical Losses include all un-accounted for energy like power diversion, billing errors, and un-metered loads.

To determine where the technical distribution losses are occurring, LDCs maintain a model of the system in an engineering analysis software to allow study of the system under various conditions. Hydro Ottawa maintains a system model in the CYME engineering software package. The system model allows the LDC to simulate various loss reduction strategies (one or multiple tactics) to see which ones have the greatest impact. These loss reduction measures can then be costed to allow for an economic evaluation of the investment.

The following is a brief description of various loss reduction initiatives and their impact on a distribution system. In reviewing Hydro Ottawa’s system, the CIMA+ team evaluated the use of several of the following loss mitigation options for the various feeders studied to determine if one solution, or combination of solutions would be viable and worthy of moving to a cost-benefit analysis.

3.1.1 Load Balancing and System Optimization

The aim of System Optimization is to balance loads and current flow through a system to reduce losses. As losses are proportional to the mathematical square of the current (I2R), reducing the current on the neutral conductor by evenly balancing the load across all three phases can substantially impact losses. Evenly spreading load across various local feeders can also reduce losses. Realtime monitoring of the station feeders and intelligent line devices can provide key information about the performance of the distribution system.

Line losses in an unbalanced three phase distribution system are higher than for a three phase balanced system. Some unbalance in a feeder’s individual phase loads is unavoidable due to the nature of the system configuration but keeping the phase loading as closely balanced as possible results in line loss reductions. Feeder phase load balancing is an on-going effort that is best addressed during the design stage for new load additions in addition to periodic reviews for established feeders.

Depending on the configuration of the distribution system, phase load balancing may not always be a simple task. The availability of other phases or the ability to split loads between existing phases may not be physically possible or operationally acceptable for safety reasons.

3.1.2 Voltage Profile Management

The management of the supply voltage at transformer stations, feeder voltage regulators, and intelligent voltage controllers can help regulate the primary voltage across the distribution system. LDCs have been controlling station demand at peak times with conservation voltage reduction management systems, which in turn can reduce system losses. Advancements in technology now permit local voltage control for small clusters of loads (which Hydro Ottawa is conducting pilot trials), and this offers the ability to impact demand, losses, and voltage performance.

The most common applications for voltage support are through the use of voltage regulators or static capacitor installations along the feeder.

3.1.3 Voltage Conversion

Increasing the voltage at which electricity is distributed reduces losses. For a given electrical load, as the supply voltage increases the required current decreases. Given the I^2R relationship, losses are reduced exponentially.

In the 1950-1970's, most LDCs were installing 4.16kV distribution systems. This was a common supply voltage, and most of the distribution equipment that was manufactured was geared to this system voltage. In time, as insulation technology improved, distribution voltages steadily increased to higher voltages such as 8.32kV, 12.47kV, 13.2kV, and 27.6kV.

LDCs have been routinely performing voltage conversation as a normal course of business when replacing depreciated plant or when driven by other factors (i.e. Road widenings or expansion projects). Some LDCs have made business cases to prematurely replace lower voltage distribution systems before end of life, based on factors including reduction of losses.

3.1.4 Power Factor Correction

Distribution systems supply real power (kilowatts) and reactive power (kilovars). The relationship of Real Power (watts) to Reactive Power (vars) is called the Power Factor. Reactive power is a necessary component in the supply of power to customers. The combination of real and reactive power is called apparent power (kVA), and the apparent power flowing through distribution lines determines the current in the line, and the losses that are proportional to the total current flowing. If the reactive power component can be lowered, the resulting improvement of Power Factor results in the reduction of line current and lower losses.

LDCs are required to maintain better than a 90% Power Factor in their system. Most often this is provided through the application of large static capacitor banks at transformer stations or distribution substations. This manages the power factor from the viewpoint of transmission

supply points but does nothing to change the reactive power flowing through the distribution system feeders. The most common practice to improve power factor on distribution feeders is by the application of static shunt capacitors on the lines, located closer to the loads. The capacitors are a source of reactive power that is close to the load, resulting in lower losses due the reduction of the feeder line current. An additional benefit of the capacitors is improved voltage regulation on the feeder.

3.1.5 Reconductoring

Reconductoring, or the replacement of an existing conductor with a larger size, can directly affect the losses in a system by reducing the resistance of the circuit between the source and customer loads. Conductors are often selected for an application based on the load at the time, balanced against ampacity limitations of the conductor. If the load increases or the system configuration changes over time, the conductor size of a given line segment may no longer be adequate. Increasing the size of the conductor segment can reduce line losses by reducing the impedance of the line, which reduces the R in the I^2R loss relationship. Therefore, reconductoring can be an effective way to reduce losses if the undersized segments are heavily loaded and numerous enough to sufficiently reduce the line resistance..

On its own, reconductoring is not the most effective loss mitigation measure, but combined with improved operational flexibility, can provide a positive impact.

3.1.6 Transformer Efficiency and Replacement

As stated previously, the physical properties of a transformer directly contribute to the overall losses in a system. As technology and manufacturing processes advance, transformer losses can be specified and reduced where required. Given the 40-50 year life cycle of a distribution transformer, manufacturing improvements in efficiency over time are difficult to take advantage of. However, if a unit is at end of life, it is an excellent opportunity to replace the transformer with a more efficient model.

For the purposes of this feeder loss review and the limited amount of transformer loading data provided, load consolidation and/or transformer replacements were not options for consideration.

3.1.7 Embedded Distributed Generation

Embedded Distributed Generation (DG) can offer the LDC an opportunity to improve a feeders' voltage profile as well as help to reduce losses on the feeder by providing supply capacity close to the feeder loads. The DG can be either customer owned or in some cases can be owned and operated by the LDC. However, in either case it can also present other challenges to an LDC system that need to be considered. Fault level contributions and protection system coordination are just two of the aspects to be considered. For the purposes of this study, all DG sources were turned off to simulate the worst case loss scenarios.

3.1.8 Non-Technical Losses

Non-technical losses are included in the overall Distribution System Losses. As stated earlier, these include power diversion, unmetered loads (streetlighting, sentinel lighting, bus shelters, cable amplifiers) as well as meter inaccuracies, and billing errors.

Overall system losses are calculated by subtracting all metered consumption from the metered input energy at the point(s) of supply entering a distribution system. In this method of calculation, power diversion and un-metered loads are included as losses in a distribution system.

LDCs manage meter accuracy by adherence to Industry Canada regulations regarding meter accuracy and verification programs. Accurate inventories of un-metered loads are an effective tool of understanding the loss makeup of an LDC, but a good understanding of the energy consumption of un-metered loads is required to accurately account for the unmetered consumption in a distribution system.

3.1.9 Conservation and Demand Management

Conservation and demand management is a program aimed at reducing the total load on the distribution system. By replacing existing loads with more energy efficient loads (e.g. lighting retrofits) or time shifting loads to periods of lower demand (e.g. electric water heater control program), the peak demand of a distribution system can be reduced. This reduction of the peak demand current impacts the I^2 portion of the I^2R loss relationship.

4. Study Methodology

Distribution system losses are comprised of transformation losses as well as primary and secondary line losses. Transformer losses are determined by the overall efficiency of the unit, which is mandated by CSA standards for general use by Ontario LDCs. Secondary line losses (i.e between the distribution transformer and the customer meter) were not modelled in the CYME software models provided by Hydro Ottawa, so were not analyzed as part of this study. Therefore, this study focuses on the primary voltage distribution line losses only.

Ten (10) feeders were selected by Hydro Ottawa as a sample of their distribution system. Problems were found within the CYME models for one of the selected feeders, so it was removed from the study. The feeder load data provided by Hydro Ottawa is listed in *Table 1* below. A variety of feeders were selected so that a sample from every voltage level, high and low loading, and varied feeder lengths are analysed. These sample feeders are being analysed as archetypes to point to other feeders for further review by Hydro Ottawa, based upon study findings.

Table 1: Supplied Feeder Data

Feeder Name	Voltage	Three Phase Peak Load	Calculated Imbalance %	Feeder Power Factor %
SK16	4.16kV	617kVA	91%	90
UN04	4.16kV	2275kVA	19%	90
4F5/BLKF5	8.32kV	143kVA	39%	96
RHNF3	8.32kV	1585kVA	21%	90
28F2	8.32kV	2954kVA	31%	94
ELW14	13.2kV	3896kVA	22%	93
LTM02	27.6kV	17353kVA	0%	90
FAL04	27.6kV	18644kVA	0%	97
MWDF3	27.6kV	14244kVA	8%	97

The following information was provided to CIMA+ by Hydro Ottawa at the beginning of the study:

- CYMDIST feeder models
- Feeder loading conditions

The information provided was reviewed by CIMA+ and the CYME models were modified as necessary to allow the CYME software to allocate the feeder loads across the transformers based on the connected kVA capacity of each transformer along the feeder. Any generation modelled in CYME was shut off and not factored into the analysis.

Modifications to the CYME models performed by CIMA+ are documented in *Appendix C*.

Once the losses were calculated based on the CYME simulations, any feeder with calculated total losses in excess of 4% of the feeder load was targeted for mitigation review. Once feeder was identified, some mitigation scenarios were run to see if the identified measures would have any worthwhile impact on lowering the losses. The following mitigation strategies were employed on the feeder models:

- Power factor correction was explored for any feeder having a client stated PF=90%.

  To simulate this, the feeder source configuration was changed in CYME to keep the real power component (kW) of the feeder load unchanged from the base case, but with the lower phase currents that would be seen with a 95% power factor. Then the peak load was allocated across all transformers on the feeder in the same manner as the base case calculations and the losses were recalculated. This simulates a “Best Possible” mitigation measure for power factor correction on the feeder.
- To review the effects of load balancing, we explored the impacts of this effort on all feeders with greater than a 10% unbalance.

  CYME has a “System Optimization” application that reviews the feeder loading and makes suggestions on what loads to shift to another phase to improve the phase load balance. We reviewed each CYME suggested load move and applied those that appeared to be operationally acceptable based on the single line information and the CYME models that were provided for each feeder.
- Where line losses were calculated to be above 4%, the feeder model was searched to identify any undersized line segments that might be reconductored to reduce losses.

For each feeder, the losses were evaluated once the peak demand load was allocated to each connected transformer proportionally based on the kVA capacity of the transformer. In this manner, a 75kVA transformer would receive a higher load allocation than a 50kVA, irrespective of their actual connected load. However, for transformers with loads already programmed into the CYME model, these were left “as is” unless the load allocation caused issues with the individual transformer loading.

The CYME model was also able to provide an estimate of circuit length of both cables and overhead line, as well as an approximation of the distance to the farthest load on each phase. This information was used for comparison between the sample feeders to assist with validation of the calculated loss values.

The overall feeder losses were used as the comparator to evaluate any reduction in losses resulting from applying the mitigation measure.

5. Analysis Results

The analysis performed on each feeder and the results found are outlined in this section. A brief description of the feeder and obvious issues discovered are outlined. Studies performed to mitigate issues are discussed with conclusions and recommendations to follow in the next sections.

Table 1 summarizes the feeder data provided by Hydro Ottawa. *Table 2* shows the Cyme calculated values for the losses and approximate lengths of cable and overhead lines.

Table 3 summarizes the approximate distances from the source to the farthest load on each phase of the feeder.

Table 4 shows the possible loss mitigation measures that could be undertaken for each feeder based on the loss calculations and the physical properties of the feeder found from the CYME simulations.

Table 2: Cyme Loss Analysis Summary

Feeder Name	Total Feeder Cable (m)	Total Feeder OH Line (m)	Calculated Losses (% of Load)				Total Losses (kVA)
			Line (%)	Cable (%)	TX (%)	Total (%)	
SK16	4067	1688	0.63	1.59	1.19	3	17.8
UN04	736	4152	2.17	0.52	2.04	4.6	100.7
4F5/BLKF5	1979	23350	0.43	0	0.73	1.2	1.7
RHNF3	6639	36087	6.81	0.06	1.24	8	118.1
28F2	18738	13121	5.4	0.15	1.09	6.6	186.5
ELW14	8621	6983	1.45	0.43	1.91	3.7	140.0
LTM02	13394	34233	4.27	0.1	2.97	7.3	1216.0
FAL04	61939	20884	7.6	0.17	2.4	10.1	1809.8
MWDF3	52452	59361	1.33	0.12	1.92	3.3	469.6

Table 3: Feeder Length Data – Distance to Furthest Load, by Phase

Feeder Name	Phase A (m)	Phase B (m)	Phase C (m)
SK16	1857	1542	3032
UN04	1419	1366	1366
4F5/BLKF5	8417	3008	5843
RHNF3	8075	7683	12080
28F2	4363	4809	4465
ELW14	4112	5029	6203
LTM02	15771	15203	15042
FAL04	13282	12816	13037
MWDF3	13520	14858	13853

Table 4: Possible Loss Mitigation Measures

Feeder Name	PF Correction	Load Balancing	OH Line Reconductoring	Voltage Conversion
SK16	✗	✓	✗	✗
UN04	✗	✗	✓	✓
4F5/BLKF5	✗	✗	✗	✗
RHNF3	✓	✓	✗	✗
28F2	✗	✓	✗	✓
ELW14	✗	✓	✗	✗
LTM02	✓	✗	✗	✗
FAL04	✗	✗	✗	✗
MWDF3	✗	✗	✗	✗

When reviewing the calculated losses and trying to see which mitigation measure might apply, the primary focus was on methods to reduce the line losses. Transformer losses are not easily changed unless a wholesale effort to replace older transformers is made, which seemed very unlikely. Likewise, cable losses are not something that can be easily addressed unless Hydro Ottawa plans to upgrade existing cables regardless of the age of the asset.

The choice of mitigating measures undertaken for each feeder are explained in the individual sections below.

Table 5 below summarizes the Base Case calculations for total feeder losses.

Table 5: Total Calculated Losses

Feeder Name	Base Case Calculated Total Losses (kVA)
SK16	18kVA
UN04	100kVA
4F5/BLKF5	1.7kVA
RHNF3	118kVA
28F2	187kVA
ELW14	140kVA
LTM02	1216kVA
FAL04	1810kVA
MWDF3	470kVA

1. These values are indicative of an instantaneous snapshot of losses at peak demand only, and are used as a measure to compare the impacts of the proposed mitigation measures. Since distribution systems do not operate at continuous peak demand, these values cannot be considered for costing of losses for economic evaluation.

5.1 SK16 Analysis Review and Mitigation Measures

SK16 is a 4.16kV feeder from the King Edward SK Station with a significant phase unbalance of 91%. The blue phase is loaded at three to four times the other two phases and the feeder power factor is stated as 90%.

The feeder has more underground cables that overhead lines (ie. 4.1km cable, 1.7km O/H line) which supports the higher proportion of the losses attributed to cables (ie. 1.59% cables versus 0.63% for O/H lines).

The calculated Total Losses on the feeder are estimated to be 17.8kVA, which is approximately 3.0% of the feeder load.

This feeder is severely unbalanced and could undoubtably benefit from the effort to better balance the phase loads, however the load on the feeder is very low at approximately 600kVA, so the impact of the balancing may not have a significant effect on the losses and associated cost savings.

The 90% power factor would warrant a review, but given the low level of loading on the feeder, it might be very difficult to select the correct kVAR value of capacitors that won’t cause voltage issues at minimum feeder loads and therefore would not be a cost effective alternative due to current loading.

Another possible measure could be a voltage conversion to either 13.2kV or 27.6kV, depending on availability of higher voltage feeders in the area. The calculated losses on the feeder are 3%, but the actual value of the losses is low (17.8kVA) due to the light loading on the feeder. Given this, a voltage conversion would only make sense if the feeder was nearing the assets end-of-life when replacement is driven by more than loss reduction alone.

We made modifications to the CYME model to see if the selected mitigation measures could provide a significant drop in losses on the feeder. The results and discussion of the Load Balancing scenario is discussed below.

5.1.1 SK16 – Load Balancing Exercise

We attempted to move some loads from the blue phase to gauge the impact of corrective phase balancing efforts.

The analysis for load balancing indicates that it could result in marginal decrease in losses on the feeder as seen in *Table 6* below.

Table 6: SK16 Calculated Impacts of Mitigation Measures

SK16	Base Case	Load Balance
Total Loss (kVA)	18.0	14.0
Loss as % of Load	2.98%	2.32%
Red Phase (A)	54	53
White Phase (A)	39	134
Blue Phase (A)	164	67

5.2 UN04 Analysis Review and Mitigation Measures

This is a 4.16kV feeder supplied out of the Henderson UN. Unlike the SK16 feeder, the UN04 circuit has very little cables and mostly overhead line (ie 736m cables, 4.1km OH line). This is reflected in the allocation of the losses shown in *Table 2* above. This feeder also has phase load imbalance (19%), but all phases appear to be about the same length as noted by the “distance to furthest load” *Table 3* above. The CYME software can produce a table listing the details of each line and cable segment in the model. From this we found that much of the three phase portions of the feeder are 4/0 copper conductor, but there are also sections of #4 copper conductor. Many of the single phase laterals are listed as 1/0 copper conductor. From the type of conductor in service we expect that this feeder is older and may be a candidate for eventual replacement at the asset end-of-life.

Given the above findings voltage conversion would be an obvious option if the feeder is nearing end-of-life. Reconductoring the smaller #4 copper three phase sections of the feeder might also be considered.

5.2.1 UN04 – Reconductoring

We investigated in CYME to determine how much of the three phase overhead conductor is #4 copper and found there to be approximately 500m listed. In the CYME model we change these 500m of conductor from #4CU to 4/0ACSR to gauge the impact of re-conductoring efforts.

We found that reconductoring the short amount of main line that appears to be #4 copper conductor would have a negligible impact on the calculated losses on the feeder.

Table 7: UN04 Calculated Impacts of Mitigation Measures

UN04	Base Case	Reconductored
Total Loss (kVA)	100.7	100.5
Loss as % of Load	4.60%	4.58%

5.3 4F5/BLKF5 Analysis Review and Mitigation Measures

This feeder is supplied out of the Blackburn MS and is described by Hydro Ottawa as a rural 8.32kV feeder. From the data collected in *Table 2* above, this appears to be a lightly loaded, long rural feeder with approximately 23km of overhead line and comparatively little cable. The variance in phase length (Furthest Load Distance) can be seen in *Table 3* and indicates a considerable difference in phase length, with the red phase being between 1.4 and 2.8 times longer than the other phases.

This feeder has a phase load unbalance of 39%. The calculated total losses as a percentage of the total feeder load are low at 1.2%.

Given the light load on the feeder and the low losses resulting, there are no loss reduction measures that could make any significant impact.

5.4 RHNF3 Analysis Review and Mitigation Measures

This is an 8.32kV feeder supplied out of the Richmond North DS and has a stated power factor of 90%. This feeder has a considerable total length of overhead conductor (over 36km), which is mostly 3/0AL and 1/0AL according to the CYME model information. It also appears that is a considerable difference in the lengths of each phase of the feeder as can be seen in *Table 3* above. The feeder also has a phase load unbalance of 21%.

CYME produces a feeder segment loading table that summarizes the percentage utilization for each line segment. What was found was that all of the existing 3/0 and 1/0 line segments operate at a maximum of 50% capacity. From this, it was decided to not explore reconductoring as a mitigation option.

Given the overall findings, phase load balancing and power factor correction were explored to gauge the possible loss reduction impacts.

5.4.1 RHNF3 – Phase Load Balancing

We attempted to move some loads around on alternative phases in an effort to gauge the impact of corrective phase balancing efforts. *Table 8* below indicates the possible reduction in losses resulting from a load balancing effort.

5.4.2 RHNF3 – Power Factor Correction

Given the feeder power factor of 90%, we undertook to review the impacts of modelling static capacitor installations on the feeder to see if a power factor correction to 95% would have a positive impact on reducing the feeder losses.

Table 8: RHNF3 Calculated Impacts of Mitigation Measures

RHNF3	Base Case	Load Balance	PF Correction
Total Loss (kVA)	118.0	109.0	106.0
Loss as % of Load	7.97%	7.33%	7.18%
Red Phase (A)	113	111	-
White Phase (A)	133	103	-
Blue Phase (A)	84	114	-

Both mitigation measures simulated yielded a marginal reduction in the calculated losses.

5.5 28F2 Analysis Review and Mitigation Measures

This 8kV feeder is supplied out of the Richmond South DS. The feeder is relatively balanced in length of the phases, but has a phase load unbalance of 31%. The feeder has a good power factor, listed at 94%.

The CYME model indicates that almost all the three phase line segments are already 556MCM AL, so there is not much that could be done in the way of reconductoring. Short of a voltage conversion, phase load balancing is the only loss mitigation measure that might be employed.

Hydro Ottawa indicates that this feeder is a strong candidate for voltage conversion, which is indicated in *Table 4* above.

5.5.1 28F2 – Phase Load Balancing

We attempted to move some loads around on alternative phases to gauge the impact of corrective phase balancing efforts.

The analysis indicates that a moderate reduction in feeder losses could be realized through a phase load balancing effort.

Table 9: 28F2 Calculated Impacts of Mitigation Measures

28F2	Base Case	Load Balance
Total Loss (kVA)	187.0	159.0
Loss as % of Load	6.59%	5.62%
Red Phase (A)	118	200
White Phase (A)	268	210
Blue Phase (A)	229	201

5.6 ELW14 Analysis Review and Mitigation Measures

This feeder is supplied out of the Ellwood MTS and is described by Hydro Ottawa as an unbalanced 13.2kV feeder. The feeder data provided indicates a phase unbalance of 22% which is actionable, but moderate when compared to some of the other feeders reviewed.

The feeder power factor is at 93% so is not suggestive of a concern, and overall calculated losses are 3.7%. Therefore, the only applicable loss mitigation measure would be a phase load balancing effort.

5.6.1 ELW14 – Load Balancing Exercise

We attempted to move some loads between phases in an effort to gauge the impact of corrective phase balancing efforts.

However, this feeder is backed up by another feeder from the same station (ELW07) and any transfer of loads from one feeder to the other would impact the overall feeder loadings and the phase balance of both feeders. In the end, we did not run a load balancing scenario on this feeder. Further investigation is warranted once the operational aspects of the feeders and the station are examined.

5.7 LTM02 Analysis Review and Mitigation Measures

This is a 27.6kV feeder that is supplied from the Leitrim MS. Most of the existing conductor is listed as 556AL already, and the data provided by Hydro Ottawa indicates that phase load balance is perfect. However the feeder power factor is listed as 90%, which is the only actionable characteristic to be examined.

Based on a typical design capacity for 27.6kV feeders of 600A (30MVA), the feeder is operating at approximately 58% of design capacity. Distribution feeders are typically loaded to 50% design capacity to allow for operating contingencies. Without knowing more about the operational configuration of the area that the LTM02 feeder supplies, one of the ways to reduce losses on this feeder would be to reduce the load. We realize that this could only be accomplished if there is capacity on adjacent feeders or if a new feeder into the area were constructed to split the area loads over more feeders. The logistics and associated costs of such an undertaking for the sole purpose of reducing losses would not likely be economical.

5.7.1 LTM02 – Power Factor Correction

Given the feeder power factor of 90%, we undertook to review the impacts of modelling static capacitor installations of the feeder to see if a power factor correction to 95-97% would have a positive impact on reducing the feeder losses.

The analysis indicates that capacitor application might yield a modest reduction in the feeder losses. However, it was determined that approximately 2400kVAR of shunt capacitance would be required to improve the power factor to 95%. The breakdown and placement of capacitor installations to achieve this were not reviewed as part of this study.

Table 10: LTM02 Calculated Impacts of Mitigation Measures

LTM02	Base Case	Power Factor Correction
Total Loss (kVA)	1216.0	1090.0
Loss as % of Load	7.31%	6.55%

5.8 FAL04 Analysis Review and Mitigation Measures

This is a 27.6kV feeder supplied from the Fallowfield MTS. The phase load balance and feeder power factor are both excellent. Much of the conductor is listed as 556MCM AL, which eliminates any need to consider reconductoring. However, the overall feeder losses are calculated as 10.1%, which is higher than all of the other feeders analyzed.

Based on a typical design capacity for 27.6kV feeders of 600A (30MVA), the feeder is operating at approximately 62% of design capacity. Without knowing more about the operational configuration of the area that the FAL04 feeder supplies, the only way to reduce losses on this feeder would be to reduce the load on the feeder. We realize that this could only be accomplished if there is capacity on adjacent feeders or if a new feeder into the area were constructed to split the area loads over more feeders. The logistics and associated costs of such an undertaking for the sole purpose of reducing losses would not likely be economical.

5.9 MWDF3 Analysis Review and Mitigation Measures

This a 27.6kV feeder supplied from the Marchwood MS. Both the phase load balance at 8% is within the normal operating range of 10% that most LDCs strive to achieve, and the feeder power factor is 94% which is also good. The overall calculated feeder losses are 3.3%, so there were no mitigation actions to be explored for this feeder as it is within Hydro Ottawa’s feeder loss goals as stated in the DSP.

6. Conclusions

Based on the base case analysis discussed and the possible loss mitigation measures explored and reviewed in *Section 4* above, we offer the following study conclusions.

5.1 For the existing 27.6kV feeders that have good power factor and a reasonable load balance of 10% or less, Hydro Ottawa is operating according to the standard best practices of Ontario LDCs.

5.2 The state of the lower voltage feeders (ie 4.16kV, 8.32kV, 13.2kV) with respect to power factor, feeder length, and phase load unbalance are most likely products of the original designs that were inherited from the original utility owners as well as expansions or changes required since then to accommodate growth

5.3 Of the nine (9) feeders selected by Hydro Ottawa for the Loss Mitigation Review, three feeders (MWDF3, FAL04, 4F5/BLKF5) were found to offer no significant options to reduce the feeder losses.

5.4 For the MWDF3 and FAL04 feeders, both the current power factor and the phase load balance are within the standard operating range for most LDCs. The one measure that could reduce the feeder losses would be a reduction of the overall feeder load, which could only be accomplished by moving load to adjacent feeders serving the same area. Depending on the distribution system configuration and the feeder loading, this may not be possible without adding additional feeders to serve a given area.

5.5 Even though the 4F5/BLKF5 feeder has a significant phase unbalance, it is lightly loaded and therefore the calculated losses are minimal. Load balancing would provide some reduction in losses, but not by any significant measure. Load balancing may still be a worthwhile effort particularly if improvements to the feeder voltage profile are an issue.

5.6 Feeders SK16, RNHF3, LTM02, and 28F2 could all benefit from load balancing efforts. The calculated reduction in the feeder losses on the selected feeders would be at best 1% better than the existing calculated losses. However, load balancing is an activity that can be done on a targeted maintenance basis, can be well planned to coordinate with other work, and involves minimal capital costs.

5.7 The RNHF3 feeder could also benefit from some level of power factor correction and the associated voltage support for this long feeder. We calculate that 222kVAR of shunt capacitance would be needed to raise the power factor to 95%, but the optimum sizing and placement of such reactive power has not been determined as part of this study.

5.8 The LTM02 feeder would require approximately 2400kVAR of capacitance to improve power factor of the feeder. The costs of such capacitor installations would need to be reviewed to ensure that this is an economic solution.

5.9 Load balancing on the ELW14 feeder could be expected to provide a reduction, but the impacts of this would need to consider the back up feeder as well. Additional data would be required to review this aspect further.

5.10 Simulated reconductoring of portions of the UN04 feeder were found to have a minimal impact on the calculated losses.

7. Recommendations

6.1 Any power factor correction efforts should include more detailed analysis to determine the optimum size of shunt capacitors and a detailed review of the loads and load locations to determine the best location for such installations.

6.2 Load balancing to a 10% target should be an on-going effort to minimize the feeder losses. These efforts can be planned and implemented in stages, with a monitoring period to gauge the effects before moving more loads.

6.3 When considering reconductoring as an option, the amount of conductor and the location of the undersized portions will greatly impact the effectiveness of the mitigation measure.

6.4 Voltage conversion for the sole purpose of reducing losses is not likely to be economic. However, voltage conversion for any feeders nearing end-of-life replacement is strongly recommended.

A

Appendix A

Client Supplied Data

2020 Peak Loading

Criteria	Feeder Name	Station	Voltage_kV	R_amp	W_amp	B_amp	Power factor
LV feeders (4kV) and unbalanced	SK16	King Edward SK	4.16	53.77	39.29	163.79	0.90
Rural Feeder (8kV)	4F5/BLKF5	Blackburn MS	8.32	13.82	6.44	9.5	0.96
Unbalanced Feeder (13kV)	ELW14	Ellwood MTS	13.2	176.99	207.09	127.07	0.93
Balanced Feeder (13kV)	TO35/TO1AP	Overbrook TO	13.2	282.1	281.12	276.06	0.97
Long Feeder (28kV)	LTM02 (Original)	Leitrim MS	27.6	111.91	104.22	124.6	0.90
Long Feeder (28kV)	LTM02 (Revised)	Leitrim MS	27.6	363	363	363	0.90
Long Feeder (8KV)	RHN F3	Richmond North DS	8.32	113	133	84	0.90
Highly Loaded (28kV)	FAL02	Fallowfield MTS	27.6	445.93	466.6	430.29	0.90
Highly Loaded (28kV)	FAL04	Fallowfield MTS	27.6	390	390	390	0.97
Highly Loaded (28kV)	MWDF3	Marchwood MS	27.6	274.2	321.51	298.18	0.97
Highly Loaded (4kV)	UN04	Henderson UN	4.16	375.1	280.75	291.46	0.90
Under consideration for voltage conversion	28F2	Richmond South DS	8.32	118	268	229	0.94

B

Appendix B1

Analysis Results – Base Case

Load Flow - Summary Report (SK16)

Study Parameters	
Study Name	HOModel20211125_GR2 - Copy.sxst
Date	Mon Dec 06 2021
Time	09h09m33s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	0.00	0.00	0.00	0.00
Generators	0.00	0.00	0.00	0.00
Total Generation	**0.00**	**0.00**	**0.00**	**0.00**
Load read (Non-adjusted)	539.03	254.58	596.12	90.42
Load used (Adjusted)	538.99	254.53	596.07	90.42
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**538.99**	**254.53**	**596.07**	**90.42**
Cable Capacitance	0.00	-0.01	0.01	0.00
Line Capacitance	0.00	-0.10	0.10	0.00
Total Shunt Capacitance	**0.00**	**-0.12**	**0.12**	**0.00**
Line Losses	1.31	3.51	3.74	35.12
Cable Losses	9.11	2.66	9.49	96.01
Transformer Load Losses	1.71	6.87	7.08	24.15
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**12.14**	**13.03**	**17.80**	**68.16**

Load Flow - Summary Report (BLKF5)

Study Parameters	
Study Name	HOModel20211125_GR1 - Copy.sxst
Date	Tue Dec 14 2021
Time	12h56m25s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	0.00	0.00	0.00	0.00
Generators	0.00	0.00	0.00	0.00
Total Generation	**0.00**	**0.00**	**0.00**	**0.00**
Load read (Non-adjusted)	138.17	41.56	144.28	95.76
Load used (Adjusted)	138.17	41.56	144.28	95.76
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**138.17**	**41.56**	**144.28**	**95.76**
Cable Capacitance	0.00	0.00	0.00	0.00
Line Capacitance	0.00	-2.64	2.64	0.00
Total Shunt Capacitance	**0.00**	**-2.64**	**2.64**	**0.00**
Line Losses	0.26	0.57	0.62	41.12
Cable Losses	0.00	0.00	0.00	85.30
Transformer Load Losses	0.25	1.02	1.05	23.30
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**0.51**	**1.60**	**1.67**	**30.24**

Load Flow - Summary Report (ELW14)

Study Parameters	
Study Name	HOModel20211125_GR2 - Copy.sxst
Date	Mon Dec 06 2021
Time	09h30m19s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	3621.92	1422.84	3891.37	93.08
Generators	0.00	0.00	0.00	0.00
Total Generation	**3621.92**	**1422.84**	**3891.37**	**93.08**
Load read (Non-adjusted)	3570.33	1298.20	3799.02	93.98
Load used (Adjusted)	3570.37	1298.27	3799.09	93.98
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**3570.37**	**1298.27**	**3799.09**	**93.98**
Cable Capacitance	0.00	-0.04	0.04	0.00
Line Capacitance	0.00	-5.44	5.44	0.00
Total Shunt Capacitance	**0.00**	**-5.48**	**5.48**	**0.00**
Line Losses	15.40	52.91	55.11	27.95
Cable Losses	14.29	8.05	16.40	87.14
Transformer Load Losses	21.90	69.13	72.52	30.20
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**51.60**	**130.09**	**139.95**	**36.87**

Load Flow - Summary Report (LTM02)

Study Parameters	
Study Name	HOModel20211125_GR2 - Copy.sxst
Date	Mon Dec 13 2021
Time	08h06m16s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	15613.44	7571.47	17352.42	89.98
Generators	0.00	0.00	0.00	0.00
Total Generation	**15613.44**	**7571.47**	**17352.42**	**89.98**
Load read (Non-adjusted)	15313.34	6488.76	16631.37	92.08
Load used (Adjusted)	15313.34	6488.76	16631.37	92.08
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**15313.34**	**6488.76**	**16631.37**	**92.08**
Cable Capacitance	0.00	0.00	0.00	0.00
Line Capacitance	0.00	-95.70	95.70	0.00
Total Shunt Capacitance	**0.00**	**-95.71**	**95.71**	**0.00**
Line Losses	191.40	684.63	710.88	26.92
Cable Losses	14.54	8.97	17.09	85.11
Transformer Load Losses	94.15	484.81	493.87	19.06
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**300.10**	**1178.41**	**1216.03**	**24.68**

Load Flow - Summary Report (RHNF3)

Study Parameters	
Study Name	HOModel20211125_GR1 - Copy.sxst
Date	Thu Dec 16 2021
Time	11h01m40s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	1425.80	692.48	1585.07	89.95
Generators	0.00	0.00	0.00	0.00
Total Generation	**1425.80**	**692.48**	**1585.07**	**89.95**
Load read (Non-adjusted)	1351.79	605.09	1481.04	91.27
Load used (Adjusted)	1351.82	605.11	1481.07	91.27
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**1351.82**	**605.11**	**1481.07**	**91.27**
Cable Capacitance	0.00	0.00	0.00	0.00
Line Capacitance	0.00	-4.62	4.62	0.00
Total Shunt Capacitance	**0.00**	**-4.62**	**4.62**	**0.00**
Line Losses	68.93	73.64	100.87	68.34
Cable Losses	0.67	0.50	0.84	79.98
Transformer Load Losses	4.40	17.88	18.42	23.92
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**74.01**	**92.02**	**118.09**	**62.67**

Load Flow - Summary Report (FAL04)

Study Parameters	
Study Name	HOModel20211125_GR2 - Copy.sxst
Date	Mon Dec 13 2021
Time	09h23m01s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	18081.43	4542.99	18643.42	96.99
Generators	0.00	0.00	0.00	0.00
Total Generation	**18081.43**	**4542.99**	**18643.42**	**96.99**
Load read (Non-adjusted)	17624.62	2854.96	17854.36	98.71
Load used (Adjusted)	17624.59	2854.91	17854.31	98.71
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**17624.59**	**2854.91**	**17854.31**	**98.71**
Cable Capacitance	0.00	0.00	0.00	0.00
Line Capacitance	0.00	-62.98	62.98	0.00
Total Shunt Capacitance	**0.00**	**-62.98**	**62.98**	**0.00**
Line Losses	345.73	1312.64	1357.41	25.47
Cable Losses	23.58	19.45	30.57	77.14
Transformer Load Losses	87.59	419.04	428.10	20.46
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**456.90**	**1751.14**	**1809.77**	**25.25**

Load Flow - Summary Report (MWDF3)

Study Parameters	
Study Name	HOModel20211125_GR2 - Copy.sxst
Date	Mon Dec 06 2021
Time	09h33m15s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	13805.84	3469.09	14235.02	96.99
Generators	0.00	0.00	0.00	0.00
Total Generation	**13805.84**	**3469.09**	**14235.02**	**96.99**
Load read (Non-adjusted)	13700.26	3110.40	14048.91	97.52
Load used (Adjusted)	13700.26	3110.40	14048.91	97.52
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**13700.26**	**3110.40**	**14048.91**	**97.52**
Cable Capacitance	0.00	0.00	0.00	0.00
Line Capacitance	0.00	-98.83	98.83	0.00
Total Shunt Capacitance	**0.00**	**-98.83**	**98.83**	**0.00**
Line Losses	52.85	179.81	187.42	28.20
Cable Losses	13.07	11.02	17.09	76.44
Transformer Load Losses	39.65	266.69	269.62	14.71
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**105.57**	**457.52**	**469.55**	**22.48**

Load Flow - Summary Report (UN04)

Study Parameters	
Study Name	HOModel20211125_GR2 - Copy.sxst
Date	Mon Dec 06 2021
Time	09h36m00s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	2048.07	991.21	2275.32	90.01
Generators	0.00	0.00	0.00	0.00
Total Generation	**2048.07**	**991.21**	**2275.32**	**90.01**
Load read (Non-adjusted)	1999.37	903.23	2193.93	91.13
Load used (Adjusted)	1999.38	903.24	2193.94	91.13
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**1999.38**	**903.24**	**2193.94**	**91.13**
Cable Capacitance	0.00	0.00	0.00	0.00
Line Capacitance	0.00	-0.21	0.21	0.00
Total Shunt Capacitance	**0.00**	**-0.21**	**0.21**	**0.00**
Line Losses	28.70	37.90	47.54	60.36
Cable Losses	9.27	6.74	11.46	80.88
Transformer Load Losses	10.71	43.53	44.83	23.90
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**48.68**	**88.18**	**100.73**	**48.33**

Load Flow - Summary Report (28F2)

Study Parameters	
Study Name	HOModel20211125_GR1 - Copy.sxst
Date	Tue Dec 14 2021
Time	13h28m23s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	2776.56	1008.59	2954.07	93.99
Generators	0.00	0.00	0.00	0.00
Total Generation	**2776.56**	**1008.59**	**2954.07**	**93.99**
Load read (Non-adjusted)	2701.35	840.46	2829.07	95.49
Load used (Adjusted)	2701.35	840.46	2829.07	95.49
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**2701.35**	**840.46**	**2829.07**	**95.49**
Cable Capacitance	0.00	0.00	0.00	0.00
Line Capacitance	0.00	-2.51	2.51	0.00
Total Shunt Capacitance	**0.00**	**-2.51**	**2.51**	**0.00**
Line Losses	64.31	138.64	152.83	42.08
Cable Losses	3.73	1.94	4.20	88.67
Transformer Load Losses	7.18	30.05	30.90	23.23
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**75.22**	**170.63**	**186.48**	**40.34**

B

Appendix B2

Analysis Results- Mitigation Cases

Load Flow - Summary Report (SK16 - Loss Reduction)

Study Parameters	
Study Name	HOModel20211125_GR2 - Copy.sxst
Date	Tue Jan 04 2022
Time	09h11m41s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	0.00	0.00	0.00	0.00
Generators	0.00	0.00	0.00	0.00
Total Generation	**0.00**	**0.00**	**0.00**	**0.00**
Load read (Non-adjusted)	539.03	254.58	596.12	90.42
Load used (Adjusted)	539.02	254.55	596.10	90.42
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**539.02**	**254.55**	**596.10**	**90.42**
Cable Capacitance	0.00	-0.01	0.01	0.00
Line Capacitance	0.00	-0.10	0.10	0.00
Total Shunt Capacitance	**0.00**	**-0.12**	**0.12**	**0.00**
Line Losses	1.08	2.70	2.91	37.02
Cable Losses	4.81	2.12	5.26	91.50
Transformer Load Losses	1.69	6.78	6.99	24.14
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**7.58**	**11.61**	**13.86**	**54.68**

Load Flow - Summary Report (LTM02 - Loss Reduction)

Study Parameters	
Study Name	HOModel20211125_GR2 - Copy.sxst
Date	Tue Jan 04 2022
Time	13h21m09s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	15613.28	5142.14	16438.25	94.98
Generators	0.00	0.00	0.00	0.00
Total Generation	**15613.28**	**5142.14**	**16438.25**	**94.98**
Load read (Non-adjusted)	15344.26	4182.18	15903.99	96.48
Load used (Adjusted)	15344.26	4182.18	15903.99	96.48
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**15344.26**	**4182.18**	**15903.99**	**96.48**
Cable Capacitance	0.00	0.00	0.00	0.00
Line Capacitance	0.00	-96.57	96.57	0.00
Total Shunt Capacitance	**0.00**	**-96.57**	**96.57**	**0.00**
Line Losses	171.63	613.97	637.51	26.92
Cable Losses	13.02	8.04	15.30	85.10
Transformer Load Losses	84.38	434.53	442.65	19.06
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**269.02**	**1056.54**	**1090.25**	**24.68**

Load Flow - Summary Report (RHNF3 - Loss Reduction by Power Factor Correction)

Study Parameters	
Study Name	HOModel20211125_GR1 - Copy.sxst
Date	Tue Jan 04 2022
Time	13h49m49s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	1426.53	469.27	1501.73	94.99
Generators	0.00	0.00	0.00	0.00
Total Generation	**1426.53**	**469.27**	**1501.73**	**94.99**
Load read (Non-adjusted)	1360.00	390.93	1415.08	96.11
Load used (Adjusted)	1360.03	390.95	1415.10	96.11
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**1360.03**	**390.95**	**1415.10**	**96.11**
Cable Capacitance	0.00	0.00	0.00	0.00
Line Capacitance	0.00	-4.67	4.67	0.00
Total Shunt Capacitance	**0.00**	**-4.67**	**4.67**	**0.00**
Line Losses	61.84	66.00	90.44	68.37
Cable Losses	0.60	0.45	0.75	79.95
Transformer Load Losses	4.08	16.57	17.07	23.91
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**66.52**	**83.02**	**106.38**	**62.53**

Load Flow - Summary Report (RHNF3 - Loss Reduction by Load Balancing)

Study Parameters	
Study Name	HOModel20211125_GR1 - Copy.sxst
Date	Tue Jan 04 2022
Time	13h59m30s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	1420.71	684.50	1577.01	90.09
Generators	0.00	0.00	0.00	0.00
Total Generation	**1420.71**	**684.50**	**1577.01**	**90.09**
Load read (Non-adjusted)	1351.79	605.09	1481.04	91.27
Load used (Adjusted)	1351.84	605.13	1481.10	91.27
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**1351.84**	**605.13**	**1481.10**	**91.27**
Cable Capacitance	0.00	0.00	0.00	0.00
Line Capacitance	0.00	-4.58	4.58	0.00
Total Shunt Capacitance	**0.00**	**-4.58**	**4.58**	**0.00**
Line Losses	63.92	65.88	91.80	69.64
Cable Losses	0.64	0.49	0.80	79.56
Transformer Load Losses	4.35	17.64	18.17	23.92
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**68.91**	**84.01**	**108.65**	**63.42**

Load Flow - Summary Report (UN04 - Loss Reduction)

Study Parameters	
Study Name	HOModel20211125_GR2 - Copy.sxst
Date	Tue Jan 04 2022
Time	11h30m29s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	2047.77	991.16	2275.03	90.01
Generators	0.00	0.00	0.00	0.00
Total Generation	**2047.77**	**991.16**	**2275.03**	**90.01**
Load read (Non-adjusted)	1999.37	903.23	2193.93	91.13
Load used (Adjusted)	1999.38	903.24	2193.94	91.13
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**1999.38**	**903.24**	**2193.94**	**91.13**
Cable Capacitance	0.00	0.00	0.00	0.00
Line Capacitance	0.00	-0.22	0.22	0.00
Total Shunt Capacitance	**0.00**	**-0.22**	**0.22**	**0.00**
Line Losses	28.41	37.86	47.33	60.01
Cable Losses	9.27	6.74	11.46	80.88
Transformer Load Losses	10.71	43.53	44.83	23.90
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**48.39**	**88.13**	**100.54**	**48.13**

Load Flow - Summary Report (28F2 - Loss Reduction)

Study Parameters	
Study Name	HOModel20211125_GR1 - Copy.sxst
Date	Tue Jan 04 2022
Time	14h25m12s
Project Name	New
Calculation Method	**Voltage Drop - Unbalanced**
Tolerance	0.1 %
Load Factors	Global (P=100.00%, Q=100.00%)
Motor Factors	As defined
Generator Factors	As defined
Shunt Capacitors	On
Sensitivity Load Model	From Library

Total Summary	kW	kvar	kVA	PF(%)
Sources (Swing)	2768.24	982.08	2937.28	94.24
Generators	0.00	0.00	0.00	0.00
Total Generation	**2768.24**	**982.08**	**2937.28**	**94.24**
Load read (Non-adjusted)	2701.35	840.46	2829.07	95.49
Load used (Adjusted)	2701.35	840.46	2829.07	95.49
Shunt capacitors (Adjusted)	0.00	0.00	0.00	0.00
Shunt reactors (Adjusted)	0.00	0.00	0.00	0.00
Motors	0.00	0.00	0.00	0.00
Total Loads	**2701.35**	**840.46**	**2829.07**	**95.49**
Cable Capacitance	0.00	0.00	0.00	0.00
Line Capacitance	0.00	-2.51	2.51	0.00
Total Shunt Capacitance	**0.00**	**-2.51**	**2.51**	**0.00**
Line Losses	56.19	112.72	125.95	44.61
Cable Losses	3.66	1.91	4.13	88.67
Transformer Load Losses	7.04	29.50	30.33	23.23
Transformer No-Load Losses	0.00	0.00	0.00	0.00
Total Losses	**66.89**	**144.13**	**158.89**	**42.10**

B

Appendix B3

As Found Detailed Loading

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
SK16	GR233819	7000707	DEFAULT	Cable	0.1	100.0000		128.5	93.9	390.2	53.6	39.1	163.7	53.6	39.1	163.7	99.76	99.84	99.25
SK16	GR233820	7000711	DEFAULT	Cable	0.1	100.0000		128.5	93.9	390.2	53.6	39.1	163.7	53.6	39.1	163.7	99.76	99.84	99.25
SK16	GR233821	7000712	DEFAULT	Cable	0.1	100.0000		128.5	93.9	390.2	53.6	39.1	163.7	53.6	39.1	163.7	99.76	99.84	99.25
SK16	GR233822	7028098	4.16KV_3P_350_CU_PILC	Cable	0.7	340.0000		128.5	93.9	390.2	53.6	39.1	163.7	15.8	11.5	48.1	99.76	99.84	99.25
SK16	GR233823	7031235	4.16KV_3P_500_CU_PILC	Cable	45.1	425.0000		128.5	93.9	390.2	53.6	39.1	163.7	12.6	9.2	38.5	99.74	99.94	99.11
SK16	GR233824	11377657	4.16KV_3P_500_CU_PILC	Cable	51.8	425.0000		128.5	94.0	389.7	53.6	39.1	163.7	12.6	9.2	38.5	99.73	100.05	98.95
SK16	GR233825	11377659	4.16KV_3P_500_CU_PILC	Cable	44.3	425.0000		128.5	94.1	389.0	53.6	39.1	163.7	12.6	9.2	38.5	99.72	100.14	98.81
SK16	GR233826	11377738	4.16KV_3P_500_CU_PILC	Cable	66.2	425.0000		128.5	94.2	388.5	53.6	39.1	163.7	12.6	9.2	38.5	99.70	100.29	98.61
SK16	GR233827	11377739	4.16KV_3P_500_CU_PILC	Cable	68.4	425.0000		128.4	94.3	387.7	53.6	39.1	163.7	12.6	9.2	38.5	99.68	100.44	98.40
SK16	GR233828	11377740	4.16KV_3P_500_CU_PILC	Cable	30.1	425.0000		128.4	94.4	386.9	53.6	39.1	163.7	12.6	9.2	38.5	99.68	100.50	98.30
SK16	GR233829	11377741	4.16KV_3P_500_CU_PILC	Cable	54.0	425.0000		128.4	94.5	386.5	53.6	39.1	163.7	12.6	9.2	38.5	99.66	100.62	98.14
SK16	GR233830	11377761	4.16KV_3P_500_CU_PILC	Cable	40.6	425.0000		128.4	94.6	385.8	53.6	39.1	163.7	12.6	9.2	38.5	99.65	100.71	98.01
SK16	GR233831	11377769	4.16KV_3P_500_CU_PILC	Cable	68.5	425.0000		128.4	94.7	385.3	53.6	39.1	163.7	12.6	9.2	38.5	99.63	100.86	97.80
SK16	GR233832	11378097	4.16KV_3P_500_CU_PILC	Cable	66.6	425.0000		128.4	94.8	384.5	53.6	39.1	163.7	12.6	9.2	38.5	99.62	101.01	97.60
SK16	GR233833	11378115	4.16KV_3P_500_CU_PILC	Cable	83.7	425.0000		128.3	95.0	383.7	53.6	39.1	163.7	12.6	9.2	38.5	99.60	101.19	97.34
SK16	GR233834	11378134	4.16KV_3P_500_CU_PILC	Cable	87.1	425.0000		128.3	95.1	382.7	53.6	39.1	163.7	12.6	9.2	38.5	99.58	101.38	97.07
SK16	GR233835	11378136	4.16KV_3P_500_CU_PILC	Cable	101.2	425.0000		128.3	95.3	381.6	53.6	39.1	163.7	12.6	9.2	38.5	99.56	101.60	96.76
SK16	GR233836	11572623	4.16KV_3P_500_CU_XLPE	Cable	29.0	455.0000		128.3	95.5	380.4	53.6	39.1	163.7	11.8	8.6	36.0	99.54	101.60	96.71
SK16	GR233841	11433933	4.16KV_3P_1/0_CU_XLPE	Cable	18.3	220.0000		9.2	17.4	12.8	3.8	7.1	5.5	1.7	3.2	2.5	99.61	101.53	96.45
SK16	GR233852	12546719	4.16KV_1P_1/0_CU_TRXLPE	Cable	131.6	220.0000				77.2			33.4			15.2			95.95
SK16	GR233853	12546737	4.16KV_1P_1/0_CU_TRXLPE	Cable	13.1	220.0000				77.1			33.4			15.2			95.94
SK16	GR233854	12546738	4.16KV_1P_1/0_CU_TRXLPE	Cable	69.9	220.0000				77.1			33.4			15.2			95.87
SK16	GR233859	11371339	4.16KV_1P_1/0_CU_XLPE	Cable	16.6	220.0000				64.2			27.9			12.7			95.85
SK16	GR233860	7031003	4.16KV_1P_1/0_AL_XLPE	Cable	55.2	220.0000				64.2			27.9			12.7			95.80
SK16	GR233861	7031004	4.16KV_1P_1/0_AL_XLPE	Cable	89.9	220.0000				64.2			27.9			12.7			95.72
SK16	GR233866	7027758	4.16KV_1P_1/0_AL_XLPE	Cable	16.3	220.0000				51.4			22.3			10.2			95.71
SK16	GR233867	7031005	4.16KV_1P_1/0_CU_XLPE	Cable	116.7	220.0000				51.4			22.3			10.2			95.63
SK16	GR233868	7031007	4.16KV_1P_1/0_AL_XLPE	Cable	50.3	220.0000				51.3			22.3			10.2			95.60
SK16	GR233869	7031218	4.16KV_1P_1/0_AL_XLPE	Cable	55.7	220.0000				51.3			22.3			10.2			95.56
SK16	GR233870	15473472	4.16KV_1P_1/0_CU_TRXLPE	Cable	64.8	220.0000				51.3			22.3			10.2			95.51
SK16	GR233871	15473477	4.16KV_1P_1/0_CU_TRXLPE	Cable	1.9	220.0000				51.3			22.3			10.2			95.51
SK16	GR233874	15473461	4.16KV_1P_1/0_CU_TRXLPE	Cable	1.9	220.0000				38.5			16.8			7.6			95.51
SK16	GR233875	15473455	4.16KV_1P_1/0_CU_TRXLPE	Cable	59.9	220.0000				38.5			16.8			7.6			95.48
SK16	GR233876	7031219	4.16KV_1P_1/0_AL_XLPE	Cable	55.0	220.0000				38.5			16.8			7.6			95.45
SK16	GR233877	7031217	4.16KV_1P_1/0_AL_XLPE	Cable	50.0	220.0000				38.5			16.8			7.6			95.42
SK16	GR233878	7031006	4.16KV_1P_1/0_CU_XLPE	Cable	116.5	220.0000				38.4			16.8			7.6			95.36
SK16	GR233879	7028383	4.16KV_1P_1/0_AL_XLPE	Cable	69.4	220.0000				38.4			16.8			7.6			95.32
SK16	GR233880	7032430	4.16KV_1P_1/0_CU_TRXLPE	Cable	123.9	220.0000				38.4			16.8			7.6			95.26
SK16	GR233885	7032429	4.16KV_1P_1/0_AL_XLPE	Cable	120.5	220.0000				25.6			11.2			5.1			95.21
SK16	GR233886	18051902	4.16KV_1P_1/0_AL_XLPE	Cable	2.7	220.0000				25.6			11.2			5.1			95.21
SK16	GR233887	7028384	4.16KV_1P_1/0_AL_XLPE	Cable	65.9	220.0000				25.6			11.2			5.1			95.19
SK16	GR233888	7028385	4.16KV_1P_1/0_AL_XLPE	Cable	62.7	220.0000				25.6			11.2			5.1			95.17
SK16	GR233889	7028386	4.16KV_1P_1/0_AL_XLPE	Cable	81.2	220.0000				25.6			11.2			5.1			95.14
SK16	GR233890	7028395	4.16KV_1P_1/0_AL_XLPE	Cable	46.9	220.0000				25.6			11.2			5.1			95.12
SK16	GR233891	7032528	4.16KV_1P_1/0_AL_XLPE	Cable	9.3	220.0000				25.6			11.2			5.1			95.12
SK16	GR233894	7032550	4.16KV_1P_1/0_AL_XLPE	Cable	10.8	220.0000				12.8			5.6			2.5			95.12
SK16	GR233895	7032549	4.16KV_1P_1/0_AL_XLPE	Cable	46.3	220.0000				12.8			5.6			2.5			95.11
SK16	GR233896	7028389	4.16KV_1P_1/0_AL_XLPE	Cable	73.0	220.0000				12.8			5.6			2.5			95.10
SK16	GR233897	7028392	4.16KV_1P_1/0_AL_XLPE	Cable	106.5	220.0000				12.8			5.6			2.5			95.08
SK16	GR233898	7030750	4.16KV_1P_350_AL_XLPE	Cable	51.1	390.0000				12.8			5.6			1.4			95.07
SK16	GR233899	11300628	4.16KV_1P_350_AL_XLPE	Cable	60.3	390.0000				12.8			5.6			1.4			95.07
SK16	GR233900	7030749	4.16KV_1P_350_AL_XLPE	Cable	19.9	390.0000				12.8			5.6			1.4			95.07
SK16	GR233905	12973600	4.16KV_1P_1/0_CU_XLPE	Cable	19.8	220.0000				0.0			0.0			0.0			95.07
SK16	GR233906	11271520	4.16KV_1P_1/0_CU_XLPE	Cable	70.7	220.0000				0.0			0.0			0.0			95.07
SK16	GR233907	11271635	4.16KV_1P_1/0_CU_XLPE	Cable	144.6	220.0000				0.0			0.0			0.0			95.07
SK16	GR233908	11371350	4.16KV_1P_1/0_CU_XLPE	Cable	88.5	220.0000				0.0			0.0			0.0			95.07
SK16	GR233909	11371351	4.16KV_1P_1/0_CU_XLPE	Cable	99.9	220.0000				0.0			0.0			0.0			95.07
SK16	GR233910	11371352	4.16KV_1P_1/0_CU_XLPE	Cable	88.4	220.0000				0.0			0.0			0.0			95.07
SK16	GR233911	11371353	4.16KV_1P_1/0_CU_XLPE	Cable	83.7	220.0000				0.0			0.0			0.0			95.07
SK16	GR233912	11371354	4.16KV_1P_1/0_CU_XLPE	Cable	66.7	220.0000				0.0			0.0			0.0			95.07
SK16	GR233913	11372077	4.16KV_1P_1/0_CU_PILC	Cable	4.7	210.0000				0.0			0.0			0.0			95.07
SK16	GR233924	11372060	4.16KV_1P_1/0_CU_XLPE	Cable	14.7	220.0000				64.1			27.7			12.6			96.11
SK16	GR233925	11372178	4.16KV_1P_1/0_CU_XLPE	Cable	83.4	220.0000				64.0			27.7			12.6			96.04
SK16	GR233926	11372061	4.16KV_1P_1/0_CU_XLPE	Cable	3.8	220.0000				64.0			27.7			12.6			96.03
SK16	GR233931	11372069	4.16KV_1P_1/0_CU_XLPE	Cable	3.3	220.0000				51.2			22.2			10.1			96.03
SK16	GR233932	11372170	4.16KV_1P_1/0_CU_XLPE	Cable	99.5	220.0000				51.2			22.2			10.1			95.96
SK16	GR233933	11371401	4.16KV_1P_1/0_CU_XLPE	Cable	88.2	220.0000				51.2			22.2			10.1			95.90
SK16	GR233934	11371400	4.16KV_1P_1/0_CU_XLPE	Cable	30.9	220.0000				51.1			22.2			10.1			95.88
SK16	GR233939	11371395	4.16KV_1P_1/0_CU_XLPE	Cable	31.0	220.0000				38.4			16.7			7.6			95.86
SK16	GR233940	11371393	4.16KV_1P_1/0_CU_XLPE	Cable	60.5	220.0000				38.4			16.7			7.6			95.83
SK16	GR233945	11371392	4.16KV_1P_1/0_CU_XLPE	Cable	32.6	220.0000				25.6			11.1			5.0			95.82
SK16	GR233946	11372117	4.16KV_1P_1/0_CU_XLPE	Cable	65.5	220.0000				25.6			11.1			5.0			95.79
SK16	GR233947	11371381	4.16KV_1P_1/0_CU_PILC	Cable	4.5	210.0000				25.6			11.1			5.3			95.79
SK16	GR233957	7033687	4.16KV_1P_350_AL_XLPE	Cable	5.4	390.0000				25.6			11.1			2.8			96.18
SK16	GR233962	7033694	4.16KV_1P_350_AL_XLPE	Cable	5.0	390.0000				0.0			0.0			0.0			96.18
SK16	GR233975	7032678	4.16KV_1P_1/0_AL_XLPE	Cable	11.0	220.0000		18.3			7.7			3.5			99.60		
SK16	GR233993	7028122	4.16KV_1P_1/0_AL_XLPE	Cable	4.3	220.0000				12.8			5.6			2.5			95.69
SK16	GR234002	7033379	DEFAULT	Cable	21.7	100.0000				19.2			8.3			8.3			95.63
SK16	GR234003	7028214	4.16KV_1P_1/0_AL_XLPE	Cable	15.7	220.0000				19.2			8.3			3.8			95.63
SK16	GR234004	7028216	4.16KV_1P_1/0_AL_XLPE	Cable	3.4	220.0000				19.2			8.3			3.8			95.63
SK16	GR234010	11288149	4.16KV_3P_350_CU_PILC	Cable	29.3	340.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.56	101.51	95.63
SK16	GR234011	11284458	4.16KV_3P_350_CU_XLPE	Cable	1.0	390.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.56	101.51	95.63
SK16	GR234030	7030498	4.16KV_1P_1/0_AL_XLPE	Cable	11.1	220.0000				19.2			8.3			3.8			95.73

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
SK16	GR234035	7032953	4.16KV_1P_1/0_CU_XLPE	Cable	2.6	220.0000		9.2			3.8			1.7			99.58		
SK16	GR234076	7000713	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.76	99.84	99.25
SK16	GR233837	11573391	4.16KV_3P_N4/0_CU	Overhead Line	5.5	480.0000		128.2	95.5	380.2	53.6	39.1	163.7	11.2	8.2	34.1	99.54	101.59	96.69
SK16	GR233838	11572768	4.16KV_3P_Y4/0_CU	Overhead Line	40.9	480.0000		128.2	69.5	380.2	53.6	28.5	163.7	11.2	5.9	34.1	99.58	101.56	96.55
SK16	GR233839	7032944	4.16KV_3P_Y4/0_CU	Overhead Line	29.8	480.0000		114.5	69.4	379.6	47.9	28.5	163.7	10.0	5.9	34.1	99.62	101.53	96.45
SK16	GR233840	11433893	4.16KV_3P_N4/0_CU	Overhead Line	3.1	480.0000		9.2	17.4	12.8	3.8	7.1	5.5	0.8	1.5	1.1	99.62	101.53	96.45
SK16	GR233845	7033574	4.16KV_3P_Y4/0_CU	Overhead Line	31.4	480.0000		105.4	52.0	366.4	44.1	21.3	158.2	9.2	4.4	33.0	99.65	101.51	96.35
SK16	GR233846	7033281	4.16KV_1P_Y4/0_CU	Overhead Line	34.9	480.0000				218.4			94.4			19.7			96.27
SK16	GR233847	7033492	4.16KV_1P_Y4/0_CU	Overhead Line	34.3	480.0000				199.1			86.1			17.9			96.21
SK16	GR233848	7033247	4.16KV_1P_Y1/0_CU	Overhead Line	28.5	310.0000				90.1			39.0			12.6			96.18
SK16	GR233849	7033248	4.16KV_1P_Y1/0_CU	Overhead Line	44.2	310.0000				90.1			39.0			12.6			96.13
SK16	GR233850	7033249	4.16KV_1P_Y1/0_CU	Overhead Line	28.7	310.0000				90.0			39.0			12.6			96.09
SK16	GR233851	7031810	4.16KV_1P_Y1/0_CU	Overhead Line	1.0	310.0000				77.2			33.4			10.8			96.09
SK16	GR233918	7033676	4.16KV_1P_Y1/0_CU	Overhead Line	29.8	310.0000				12.8			5.5			1.8			96.09
SK16	GR233921	7033457	4.16KV_1P_Y1/0_CU	Overhead Line	19.6	310.0000				108.8			47.1			15.2			96.18
SK16	GR233922	7031221	4.16KV_1P_Y1/0_CU	Overhead Line	25.0	310.0000				83.3			36.0			11.6			96.16
SK16	GR233923	7033493	4.16KV_1P_Y1/0_CU	Overhead Line	43.2	310.0000				64.1			27.7			8.9			96.12
SK16	GR233954	7033250	4.16KV_1P_Y1/0_CU	Overhead Line	2.2	310.0000				25.6			11.1			3.6			96.18
SK16	GR233955	7033166	4.16KV_1P_Y1/0_CU	Overhead Line	1.2	310.0000				25.6			11.1			3.6			96.18
SK16	GR233956	7033251	4.16KV_1P_Y1/0_CU	Overhead Line	2.0	310.0000				25.6			11.1			3.6			96.18
SK16	GR233961	7033252	4.16KV_1P_Y1/0_CU	Overhead Line	0.9	310.0000				0.0			0.0			0.0			96.18
SK16	GR233966	9020414	4.16KV_3P_Y4/0_CU	Overhead Line	2.5	480.0000		105.4	52.0	147.6	44.1	21.3	63.8	9.2	4.4	13.3	99.65	101.51	96.34
SK16	GR233967	7033594	4.16KV_3P_Y4/0_CU	Overhead Line	28.5	480.0000		105.4	52.0	147.6	44.1	21.3	63.8	9.2	4.4	13.3	99.65	101.50	96.30
SK16	GR233968	7033575	4.16KV_3P_Y4/0_CU	Overhead Line	44.2	480.0000		105.4	52.0	147.6	44.1	21.3	63.8	9.2	4.4	13.3	99.64	101.50	96.25
SK16	GR233969	7033576	4.16KV_3P_Y4/0_CU	Overhead Line	38.0	480.0000		105.4	52.0	134.7	44.1	21.3	58.3	9.2	4.4	12.1	99.63	101.49	96.20
SK16	GR233970	7031871	4.16KV_3P_Y4/0_CU	Overhead Line	38.8	480.0000		105.4	34.7	134.6	44.1	14.2	58.3	9.2	3.0	12.1	99.62	101.49	96.15
SK16	GR233971	7033577	4.16KV_3P_Y4/0_CU	Overhead Line	39.9	480.0000		105.4	34.7	115.4	44.1	14.2	50.0	9.2	3.0	10.4	99.61	101.49	96.10
SK16	GR233972	7033578	4.16KV_3P_Y4/0_CU	Overhead Line	39.5	480.0000		91.7	34.7	115.4	38.3	14.2	50.0	8.0	3.0	10.4	99.60	101.49	96.06
SK16	GR233973	7032057	4.16KV_1P_Y4/0_CU	Overhead Line	1.3	480.0000		18.3			7.7			1.6			99.60		
SK16	GR233974	7032058	4.16KV_1P_Y1/0_CU	Overhead Line	1.8	310.0000		18.3			7.7			2.5			99.60		
SK16	GR233979	7032690	4.16KV_3P_Y4/0_CU	Overhead Line	22.6	480.0000		73.3	34.7	115.3	30.6	14.2	50.0	6.4	3.0	10.4	99.60	101.48	96.03
SK16	GR233980	7032689	4.16KV_3P_Y4/0_CU	Overhead Line	37.8	480.0000		73.3	34.7	115.3	30.6	14.2	50.0	6.4	3.0	10.4	99.60	101.48	95.99
SK16	GR233981	7032688	4.16KV_3P_Y4/0_CU	Overhead Line	41.3	480.0000		73.3	34.7	115.2	30.6	14.2	50.0	6.4	3.0	10.4	99.60	101.47	95.95
SK16	GR233982	7032687	4.16KV_3P_Y4/0_CU	Overhead Line	32.9	480.0000		73.3	34.7	115.2	30.7	14.2	50.0	6.4	3.0	10.4	99.60	101.46	95.92
SK16	GR233983	11291292	4.16KV_3P_N4/0_CU	Overhead Line	18.2	480.0000		68.8	26.0	108.8	28.7	10.7	47.2	6.0	2.2	9.8	99.60	101.46	95.90
SK16	GR233984	11274730	4.16KV_3P_Y4/0_CU	Overhead Line	32.0	480.0000		68.8	26.0	76.8	28.7	10.7	33.4	6.0	2.2	6.9	99.59	101.46	95.87
SK16	GR233985	7032684	4.16KV_3P_Y4/0_CU	Overhead Line	33.0	480.0000		68.8	17.4	76.8	28.7	7.1	33.4	6.0	1.5	6.9	99.59	101.46	95.85
SK16	GR233986	7032691	4.16KV_3P_Y3/0_ACSR	Overhead Line	37.7	480.0000		59.6	0.0	76.8	24.9	0.0	33.4	5.2	0.0	6.9	99.59	101.47	95.81
SK16	GR233987	7032692	4.16KV_3P_Y3/0_ACSR	Overhead Line	34.4	480.0000		59.6	0.0	76.8	24.9	0.0	33.4	5.2	0.0	6.9	99.58	101.48	95.78
SK16	GR233988	7032693	4.16KV_3P_Y3/0_ACSR	Overhead Line	36.9	480.0000		55.0	0.0	76.7	23.0	0.0	33.4	4.8	0.0	6.9	99.58	101.48	95.75
SK16	GR233989	7027781	4.16KV_3P_Y3/0_ACSR	Overhead Line	26.8	480.0000		45.8	0.0	76.7	19.2	0.0	33.4	4.0	0.0	6.9	99.59	101.48	95.73
SK16	GR233990	11265933	4.16KV_3P_N3/0_ACSR	Overhead Line	57.4	480.0000		45.8	0.0	57.5	19.2	0.0	25.0	4.0	0.0	5.2	99.58	101.49	95.69
SK16	GR233991	11265961	4.16KV_3P_Y4/0_CU	Overhead Line	2.2	480.0000		0.0	0.0	12.8	0.0	0.0	5.6	0.0	0.0	1.2	99.58	101.49	95.69
SK16	GR233992	7029708	4.16KV_1P_Y1/0_CU	Overhead Line	2.0	310.0000				12.8			5.6			1.8			95.69
SK16	GR233997	7033579	4.16KV_3P_Y3/0_ACSR	Overhead Line	32.6	480.0000		45.8	0.0	44.7	19.2	0.0	19.5	4.0	0.0	4.1	99.58	101.50	95.68
SK16	GR233998	7033580	4.16KV_3P_Y3/0_ACSR	Overhead Line	32.9	480.0000		32.1	0.0	44.7	13.4	0.0	19.5	2.8	0.0	4.1	99.58	101.50	95.66
SK16	GR233999	7033581	4.16KV_3P_Y3/0_ACSR	Overhead Line	35.3	480.0000		32.1	0.0	31.9	13.4	0.0	13.9	2.8	0.0	2.9	99.57	101.50	95.65
SK16	GR234000	7033582	4.16KV_3P_Y3/0_ACSR	Overhead Line	34.0	480.0000		32.1	0.0	19.2	13.4	0.0	8.3	2.8	0.0	1.7	99.57	101.51	95.64
SK16	GR234001	7030018	DEFAULT	Overhead Line	2.3	1000.0000				19.2			8.3			0.8			95.64
SK16	GR234008	7033583	4.16KV_3P_Y3/0_ACSR	Overhead Line	42.7	480.0000		32.1	0.0	0.0	13.4	0.0	0.0	2.8	0.0	0.0	99.56	101.51	95.63
SK16	GR234009	11284094	4.16KV_3P_N4/0_CU	Overhead Line	2.3	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.56	101.51	95.63
SK16	GR234012	7033584	4.16KV_3P_Y3/0_ACSR	Overhead Line	35.2	480.0000		32.1	0.0	0.0	13.4	0.0	0.0	2.8	0.0	0.0	99.55	101.52	95.63
SK16	GR234013	7033585	4.16KV_3P_Y3/0_ACSR	Overhead Line	35.1	480.0000		22.9	0.0	0.0	9.6	0.0	0.0	2.0	0.0	0.0	99.54	101.53	95.63
SK16	GR234014	7031184	4.16KV_3P_Y3/0_ACSR	Overhead Line	22.0	480.0000		13.7	0.0	0.0	5.8	0.0	0.0	1.2	0.0	0.0	99.54	101.53	95.63
SK16	GR234015	7031182	4.16KV_3P_Y3/0_ACSR	Overhead Line	25.9	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.54	101.53	95.63
SK16	GR234028	7029793	4.16KV_1P_Y1/0_CU	Overhead Line	3.3	310.0000				19.2			8.3			2.7			95.73
SK16	GR234029	7029832	4.16KV_1P_Y1/0_CU	Overhead Line	2.0	310.0000				19.2			8.3			2.7			95.73
SK16	GR234034	7032952	4.16KV_1P_Y1/0_CU	Overhead Line	2.0	310.0000		9.2			3.8			1.2			99.58		
SK16	GR234041	7033591	4.16KV_3P_Y4/0_CU	Overhead Line	39.6	480.0000		9.2	17.4	0.0	3.8	7.1	0.0	0.8	1.5	0.0	99.58	101.46	95.85
SK16	GR234042	7032967	4.16KV_3P_Y4/0_CU	Overhead Line	34.7	480.0000		9.2	17.4	0.0	3.8	7.1	0.0	0.8	1.5	0.0	99.58	101.46	95.85
SK16	GR234043	7032968	4.16KV_3P_Y4/0_CU	Overhead Line	7.2	480.0000		0.0	17.4	0.0	0.0	7.1	0.0	0.0	1.5	0.0	99.58	101.46	95.85
SK16	GR234044	11286569	4.16KV_3P_Y4/0_CU	Overhead Line	33.2	480.0000		0.0	17.4	0.0	0.0	7.1	0.0	0.0	1.5	0.0	99.58	101.45	95.86
SK16	GR234045	7032969	4.16KV_3P_Y4/0_CU	Overhead Line	33.2	480.0000		0.0	17.4	0.0	0.0	7.1	0.0	0.0	1.5	0.0	99.57	101.45	95.86
SK16	GR234046	7032970	4.16KV_3P_Y4/0_CU	Overhead Line	15.5	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.57	101.45	95.86
SK16	GR234053	7031466	4.16KV_3P_Y1/0_CU	Overhead Line	48.4	310.0000		0.0	0.0	31.9	0.0	0.0	13.9	0.0	0.0	4.5	99.61	101.46	95.88
SK16	GR234054	7032971	4.16KV_3P_Y1/0_CU	Overhead Line	38.0	310.0000		0.0	0.0	12.8	0.0	0.0	5.5	0.0	0.0	1.8	99.61	101.46	95.87
SK16	GR234055	7032972	4.16KV_3P_Y1/0_CU	Overhead Line	40.9	310.0000		0.0	0.0	12.8	0.0	0.0	5.5	0.0	0.0	1.8	99.62	101.46	95.86
SK16	GR234060	7032682	4.16KV_3P_Y4/0_CU	Overhead Line	31.4	480.0000		4.6	8.6	6.3	1.9	3.5	2.8	0.4	0.7	0.6	99.60	101.46	95.92
SK16	GR234073	7033706	4.16KV_3P_Y4/0_CU	Overhead Line	2.9	480.0000		0.0	26.0	0.0	0.0	10.7	0.0	0.0	2.2	0.0	99.54	101.59	96.70
SK16	GR233843	TP6090-11405134	4.16KV_120V/208V_150_3P	Two-Winding Transformer	0.0		150.00	9.2	17.4	12.8	3.8	7.1	5.5	18.2	34.4	25.3	99.04	100.42	95.60
SK16	GR233856	M1452-1660176	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.5			25.3			95.10
SK16	GR233863	M01453-1660177	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.6			25.3			94.95
SK16	GR233882	K682-1660067	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.6			25.3			94.48
SK16	GR233902	M01451-1660175	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.6			25.3			94.29
SK16	GR233914	M1891-1677682	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.6			25.3			94.35
SK16	GR233916	K00949-1659142	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.6			25.3			94.74
SK16	GR233919	X27981-1669852	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.5			25.3			95.32
SK16	GR233928	TP3838-11372166	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.5			25.3			95.27
SK16	GR233936	TP3840-11372145	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.5			25.3			95.11
SK16	GR233942	TP3841-11372133	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.6			25.3			95.06
SK16	GR233949	TP3842-11372085	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			25.6			11.1			25.3			95.02
SK16	GR233952	X21657-1669874	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			19.2			8.3			25.3			95.39
SK16	GR233959	K00996-1659173	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			25.6			11.1			25.3			95.42

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
SK16	GR233964	X21658-1669545	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			19.2			8.3			25.3			95.51
SK16	GR233977	K01255-1659358	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	18.3			7.7			18.2			99.09		
SK16	GR233995	M00027-1660155	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.6			25.3			94.92
SK16	GR234006	K01256-1659359	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			19.2			8.3			25.3			94.86
SK16	GR234016	X30903-1652562	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	13.7			5.8			18.2			99.02		
SK16	GR234018	X30921-1665560	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	9.2			3.8			18.2			99.03		
SK16	GR234020	X30922-1665556	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	9.2			3.8			18.2			99.03		
SK16	GR234022	X30902-1665554	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.6			25.3			94.88
SK16	GR234024	X30923-1665553	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.6			25.3			94.89
SK16	GR234026	X27984-1665552	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	13.7			5.7			18.2			99.06		
SK16	GR234032	K01254-1659357	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			19.2			8.3			25.3			94.96
SK16	GR234037	K00697-1658956	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	9.2			3.8			18.2			99.07		
SK16	GR234039	X30901-1665551	4.16KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	4.6			1.9			18.2			99.07		
SK16	GR234047	X30924-1665557	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		17.4			7.1			34.4			100.45	
SK16	GR234049	X30900-1665558	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	9.2			3.8			18.2			99.06		
SK16	GR234051	X27985-1669466	4.16KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		8.7			3.6			34.4			100.47	
SK16	GR234056	X27995-1677245	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.5			25.3			95.10
SK16	GR234058	X27982-15507840	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			19.2			8.3			25.3			95.11
SK16	GR234061	X27987-1669885	4.16KV_600V_75_3P	Two-Winding Transformer	0.0		75.00	4.6	8.6	6.3	1.9	3.5	2.8	6.1	11.5	8.4	99.55	101.36	95.83
SK16	GR234063	X27994-1669513	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	13.7			5.7			18.2			99.10		
SK16	GR234065	X27993-1669524	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			19.2			8.3			25.3			95.38
SK16	GR234067	X27989-1669534	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		17.4			7.1			34.4			100.49	
SK16	GR234069	X27992-1669610	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.5			25.3			95.48
SK16	GR234071	X37579-1669577	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	13.7			5.7			18.2			99.07		
SK16	GR234074	X37578-1669566	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		26.0			10.7			34.4			100.60	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
BLKF5	GR133413	14646614	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		67.1	31.3	46.1	13.8	6.4	9.5	2.3	1.1	1.6	99.77	99.98	99.76
BLKF5	GR133414	14646618	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		67.1	31.3	46.1	13.8	6.4	9.5	2.3	1.1	1.6	99.77	99.98	99.76
BLKF5	GR133415	14645905	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.77	99.98	99.76
BLKF5	GR133416	14645956	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		67.1	31.3	46.1	13.8	6.4	9.5	2.3	1.1	1.6	99.77	99.98	99.76
BLKF5	GR133417	14646623	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		67.1	31.3	46.1	13.8	6.4	9.5	2.3	1.1	1.6	99.77	99.98	99.76
BLKF5	GR133418	14645959	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		67.1	31.3	46.1	13.8	6.4	9.5	2.3	1.1	1.6	99.77	99.98	99.76
BLKF5	GR133419	14646931	8.32KV_3P_500_CU_XLPE	Cable	0.0	455.0000		67.1	31.3	46.1	13.8	6.4	9.5	3.0	1.4	2.1	99.77	99.98	99.76
BLKF5	GR133420	3554996	8.32KV_3P_500_AL_XLPE	Cable	24.8	455.0000		67.1	31.3	46.1	13.8	6.4	9.5	3.0	1.4	2.1	99.77	99.98	99.76
BLKF5	GR133428	3552666	8.32KV_1P_1/0_AL_XLPE	Cable	745.6	220.0000				9.0			1.9			0.8			99.72
BLKF5	GR133433	3554726	8.32KV_1P_1/0_AL_XLPE	Cable	747.0	220.0000				0.0			0.0			0.0			99.72
BLKF5	GR133571	12983637	8.32KV_3P_1/0_AL_XLPE	Cable	81.6	220.0000		7.8	0.0	0.0	1.6	0.0	0.0	0.7	0.0	0.0	99.49	100.14	99.58
BLKF5	GR133572	13073404	8.32KV_3P_1/0_AL_XLPE	Cable	117.1	220.0000		7.8	0.0	0.0	1.6	0.0	0.0	0.7	0.0	0.0	99.49	100.14	99.58
BLKF5	GR133573	13073402	8.32KV_3P_1/0_AL_XLPE	Cable	48.1	220.0000		7.8	0.0	0.0	1.6	0.0	0.0	0.7	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133574	11574988	8.32KV_3P_1/0_AL_XLPE	Cable	0.0	220.0000		7.8	0.0	0.0	1.6	0.0	0.0	0.7	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133575	11574869	8.32KV_3P_1/0_AL_XLPE	Cable	0.0	220.0000		7.8	0.0	0.0	1.6	0.0	0.0	0.7	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133576	11575462	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		7.8	0.0	0.0	1.6	0.0	0.0	0.3	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133577	11574890	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		7.8	0.0	0.0	1.6	0.0	0.0	0.3	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133578	11574909	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		7.8	0.0	0.0	1.6	0.0	0.0	0.3	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133579	16434722	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		7.8	0.0	0.0	1.6	0.0	0.0	0.3	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133580	11574902	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133581	11574918	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133582	11579276	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133583	11575036	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		7.8	0.0	0.0	1.6	0.0	0.0	0.3	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133584	11575018	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		7.8	0.0	0.0	1.6	0.0	0.0	0.3	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133585	11575146	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		7.8	0.0	0.0	1.6	0.0	0.0	0.3	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133586	11575106	DEFAULT	Cable	0.1	100.0000			0.0	0.0		0.0	0.0		0.0	0.0		100.14	99.58
BLKF5	GR133587	11575096	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000			0.0			0.0			0.0			100.14	
BLKF5	GR133588	11579283	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000			0.0			0.0			0.0			100.14	
BLKF5	GR133591	11575159	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000				0.0			0.0			0.0			99.58
BLKF5	GR133592	11579293	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000				0.0			0.0			0.0			99.58
BLKF5	GR133593	11575102	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000				0.0			0.0			0.0			99.58
BLKF5	GR133596	11579271	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		7.8			1.6			0.3			99.48		
BLKF5	GR133597	11575025	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		7.8			1.6			0.3			99.48		
BLKF5	GR133814	14673106	8.32KV_1P_1/0_AL_XLPE	Cable	212.8	220.0000		7.8			1.6			0.7			99.01		
BLKF5	GR133421	3554557	8.32KV_3P_Y336_AL	Overhead Line	2.8	530.0000		67.1	31.3	46.1	13.8	6.4	9.5	2.6	1.2	1.8	99.77	99.98	99.76
BLKF5	GR133422	3553308	8.32KV_3P_Y336_AL	Overhead Line	20.4	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.77	99.98	99.76
BLKF5	GR133423	3554558	8.32KV_3P_Y336_AL	Overhead Line	25.6	530.0000		67.1	31.3	46.1	13.8	6.4	9.5	2.6	1.2	1.8	99.77	99.98	99.76
BLKF5	GR133424	3554920	8.32KV_3P_Y336_AL	Overhead Line	54.1	530.0000		67.1	31.3	46.1	13.8	6.4	9.5	2.6	1.2	1.8	99.76	99.98	99.76
BLKF5	GR133425	3554921	8.32KV_3P_Y336_AL	Overhead Line	53.6	530.0000		67.1	31.3	46.1	13.8	6.4	9.5	2.6	1.2	1.8	99.76	99.98	99.75
BLKF5	GR133426	3554922	8.32KV_3P_Y336_AL	Overhead Line	54.9	530.0000		67.1	31.3	46.1	13.8	6.4	9.5	2.6	1.2	1.8	99.75	99.98	99.75
BLKF5	GR133427	3554923	8.32KV_1P_Y1/0_AL	Overhead Line	2.0	230.0000				9.0			1.9			0.8			99.75
BLKF5	GR133434	3554924	8.32KV_3P_Y336_AL	Overhead Line	2.0	530.0000		67.1	31.3	37.0	13.8	6.4	7.6	2.6	1.2	1.4	99.75	99.98	99.75
BLKF5	GR133435	3553944	8.32KV_3P_Y336_AL	Overhead Line	11.3	530.0000		67.1	31.3	37.0	13.8	6.4	7.6	2.6	1.2	1.4	99.75	99.98	99.75
BLKF5	GR133436	15562320	8.32KV_3P_Y336_AL	Overhead Line	59.9	530.0000		67.1	31.3	37.0	13.8	6.4	7.6	2.6	1.2	1.4	99.75	99.98	99.74
BLKF5	GR133437	3554927	8.32KV_3P_Y336_AL	Overhead Line	25.4	530.0000		67.1	31.3	37.0	13.8	6.4	7.6	2.6	1.2	1.4	99.74	99.98	99.74
BLKF5	GR133438	14666271	8.32KV_3P_Y336_AL	Overhead Line	65.7	530.0000		67.1	31.3	37.0	13.8	6.4	7.6	2.6	1.2	1.4	99.74	99.98	99.73
BLKF5	GR133439	14666281	8.32KV_3P_Y336_AL	Overhead Line	60.2	530.0000		67.1	31.3	37.0	13.8	6.4	7.6	2.6	1.2	1.4	99.73	99.98	99.73
BLKF5	GR133440	14666423	8.32KV_3P_Y336_AL	Overhead Line	52.1	530.0000		67.1	31.3	37.0	13.8	6.4	7.6	2.6	1.2	1.4	99.73	99.98	99.73
BLKF5	GR133441	14666422	8.32KV_3P_Y336_AL	Overhead Line	88.7	530.0000		67.1	31.3	37.0	13.8	6.4	7.6	2.6	1.2	1.4	99.72	99.98	99.72
BLKF5	GR133442	10256423	8.32KV_3P_Y336_AL	Overhead Line	89.0	530.0000		67.1	31.3	37.0	13.8	6.4	7.6	2.6	1.2	1.4	99.71	99.98	99.71
BLKF5	GR133443	3551500	8.32KV_3P_Y336_AL	Overhead Line	54.3	530.0000		67.1	31.3	37.0	13.8	6.4	7.6	2.6	1.2	1.4	99.71	99.98	99.71
BLKF5	GR133444	3551501	8.32KV_3P_Y336_AL	Overhead Line	83.3	530.0000		67.1	31.3	37.0	13.8	6.4	7.6	2.6	1.2	1.4	99.70	99.99	99.70
BLKF5	GR133445	3551502	8.32KV_3P_Y336_AL	Overhead Line	50.3	530.0000		67.0	31.3	37.0	13.8	6.4	7.6	2.6	1.2	1.4	99.70	99.99	99.70
BLKF5	GR133446	3551503	8.32KV_3P_Y336_AL	Overhead Line	55.9	530.0000		67.0	31.3	37.0	13.8	6.4	7.6	2.6	1.2	1.4	99.69	99.99	99.69
BLKF5	GR133449	3549160	8.32KV_1P_Y1/0_AL	Overhead Line	71.3	230.0000			24.1			4.9			2.1			99.98	
BLKF5	GR133450	3587011	8.32KV_1P_Y1/0_AL	Overhead Line	4.9	230.0000			24.1			4.9			2.1			99.98	
BLKF5	GR133451	3549624	8.32KV_1P_Y1/0_AL	Overhead Line	73.8	230.0000			17.0			3.5			1.5			99.98	
BLKF5	GR133452	3519173	JUMPER	Overhead Line	0.0	600.0000			14.2			2.9			0.5			99.98	
BLKF5	GR133453	3549161	8.32KV_1P_Y1/0_AL	Overhead Line	2.0	230.0000			0.0			0.0			0.0			99.98	
BLKF5	GR133454	3550540	8.32KV_1P_Y1/0_AL	Overhead Line	4.0	230.0000			14.2			2.9			1.3			99.98	
BLKF5	GR133455	14661039	8.32KV_1P_Y1/0_AL	Overhead Line	28.4	230.0000			14.2			2.9			1.3			99.98	
BLKF5	GR133456	3550541	8.32KV_1P_Y1/0_AL	Overhead Line	48.2	230.0000			14.2			2.9			1.3			99.98	
BLKF5	GR133457	3550542	8.32KV_1P_Y1/0_AL	Overhead Line	43.4	230.0000			14.2			2.9			1.3			99.97	
BLKF5	GR133460	3549625	8.32KV_1P_Y1/0_AL	Overhead Line	77.1	230.0000			2.8			0.6			0.3			99.98	
BLKF5	GR133461	3549626	8.32KV_1P_Y1/0_AL	Overhead Line	71.9	230.0000			2.8			0.6			0.3			99.98	
BLKF5	GR133462	3585009	8.32KV_1P_Y1/0_AL	Overhead Line	68.6	230.0000			2.8			0.6			0.3			99.98	
BLKF5	GR133463	3549627	8.32KV_1P_Y1/0_AL	Overhead Line	43.5	230.0000			2.8			0.6			0.3			99.98	
BLKF5	GR133464	3549628	8.32KV_1P_Y1/0_AL	Overhead Line	40.3	230.0000			0.0			0.0			0.0			99.98	
BLKF5	GR133465	3549629	8.32KV_1P_Y1/0_AL	Overhead Line	34.1	230.0000			0.0			0.0			0.0			99.98	
BLKF5	GR133470	3549802	8.32KV_1P_Y1/0_AL	Overhead Line	53.6	230.0000				18.9			3.9			1.7			99.69
BLKF5	GR133471	3551504	8.32KV_1P_Y1/0_AL	Overhead Line	65.4	230.0000				18.9			3.9			1.7			99.69
BLKF5	GR133472	3586626	8.32KV_1P_Y1/0_AL	Overhead Line	41.4	230.0000				18.9			3.9			1.7			99.68
BLKF5	GR133473	3551505	8.32KV_1P_Y1/0_AL	Overhead Line	69.7	230.0000				17.1			3.5			1.5			99.68
BLKF5	GR133474	3551658	8.32KV_1P_Y1/0_AL	Overhead Line	18.9	230.0000				15.3			3.2			1.4			99.68
BLKF5	GR133475	3551659	8.32KV_1P_Y1/0_AL	Overhead Line	42.9	230.0000				15.3			3.2			1.4			99.68
BLKF5	GR133476	3551660	8.32KV_1P_Y1/0_AL	Overhead Line	57.8	230.0000				15.3			3.2			1.4			99.68
BLKF5	GR133477	3551661	8.32KV_1P_Y1/0_AL	Overhead Line	60.1	230.0000				13.5			2.8			1.2			99.67
BLKF5	GR133478	3551662	8.32KV_1P_Y1/0_AL	Overhead Line	71.1	230.0000				13.5			2.8			1.2			99.67

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
BLKF5	GR133479	3585390	8.32KV_1P_Y1/0_AL	Overhead Line	40.2	230.0000				13.5			2.8			1.2			99.67
BLKF5	GR133480	3551663	8.32KV_1P_Y1/0_AL	Overhead Line	39.1	230.0000				13.5			2.8			1.2			99.67
BLKF5	GR133481	3551664	8.32KV_1P_Y1/0_AL	Overhead Line	37.9	230.0000				13.5			2.8			1.2			99.67
BLKF5	GR133482	3551665	8.32KV_1P_Y1/0_AL	Overhead Line	41.0	230.0000				13.5			2.8			1.2			99.67
BLKF5	GR133483	3551612	8.32KV_1P_Y1/0_AL	Overhead Line	40.2	230.0000				13.5			2.8			1.2			99.67
BLKF5	GR133484	3551623	8.32KV_1P_Y1/0_AL	Overhead Line	42.0	230.0000				9.0			1.9			0.8			99.66
BLKF5	GR133485	3551624	8.32KV_1P_Y1/0_AL	Overhead Line	37.2	230.0000				9.0			1.9			0.8			99.66
BLKF5	GR133486	3551625	8.32KV_1P_Y1/0_AL	Overhead Line	36.3	230.0000				9.0			1.9			0.8			99.66
BLKF5	GR133487	3551626	8.32KV_1P_Y1/0_AL	Overhead Line	71.6	230.0000				9.0			1.9			0.8			99.66
BLKF5	GR133488	3551627	8.32KV_1P_Y1/0_AL	Overhead Line	51.0	230.0000				9.0			1.9			0.8			99.66
BLKF5	GR133489	3551628	8.32KV_1P_Y1/0_AL	Overhead Line	21.7	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133490	3551543	8.32KV_1P_Y1/0_AL	Overhead Line	34.0	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133491	3549819	8.32KV_1P_Y1/0_AL	Overhead Line	34.2	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133492	3549820	8.32KV_1P_Y1/0_AL	Overhead Line	41.8	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133493	3549821	8.32KV_1P_Y1/0_AL	Overhead Line	38.1	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133494	3549822	8.32KV_1P_Y1/0_AL	Overhead Line	41.1	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133495	3549823	8.32KV_1P_Y1/0_AL	Overhead Line	37.6	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133496	14694658	8.32KV_1P_Y1/0_AL	Overhead Line	36.6	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133497	3549825	8.32KV_1P_Y1/0_AL	Overhead Line	36.8	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133498	3549824	8.32KV_1P_Y1/0_AL	Overhead Line	39.7	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133499	3549826	8.32KV_1P_Y1/0_AL	Overhead Line	38.8	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133500	3549827	8.32KV_1P_Y1/0_AL	Overhead Line	48.1	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133501	3549829	8.32KV_1P_Y1/0_AL	Overhead Line	60.2	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133502	3549830	8.32KV_1P_Y1/0_AL	Overhead Line	42.5	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133503	3586182	8.32KV_1P_Y1/0_AL	Overhead Line	33.7	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133504	3549831	8.32KV_1P_Y1/0_AL	Overhead Line	43.3	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133505	3549832	8.32KV_1P_Y1/0_AL	Overhead Line	40.7	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133506	3549833	8.32KV_1P_Y1/0_AL	Overhead Line	40.0	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133507	3550217	8.32KV_1P_Y1/0_AL	Overhead Line	40.6	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133508	14694664	8.32KV_1P_Y1/0_AL	Overhead Line	41.4	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133509	3550218	8.32KV_1P_Y1/0_AL	Overhead Line	37.6	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133510	3549439	8.32KV_1P_Y1/0_AL	Overhead Line	40.2	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133511	3586174	8.32KV_1P_Y1/0_AL	Overhead Line	39.5	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133512	3549440	8.32KV_1P_Y1/0_AL	Overhead Line	39.4	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133513	3549441	8.32KV_1P_Y1/0_AL	Overhead Line	38.7	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133514	3549442	8.32KV_1P_Y1/0_AL	Overhead Line	42.6	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133515	14694668	8.32KV_1P_Y1/0_AL	Overhead Line	42.3	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133516	3549443	8.32KV_1P_Y1/0_AL	Overhead Line	38.7	230.0000				4.5			0.9			0.4			99.65
BLKF5	GR133517	3549444	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000				0.0			0.0			0.0			99.65
BLKF5	GR133520	3551629	8.32KV_1P_Y1/0_AL	Overhead Line	4.3	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133521	16356658	8.32KV_1P_Y1/0_AL	Overhead Line	42.6	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133524	3551630	8.32KV_1P_Y1/0_AL	Overhead Line	17.3	230.0000				4.5			0.9			0.4			99.67
BLKF5	GR133525	3550835	8.32KV_1P_Y1/0_AL	Overhead Line	26.3	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133526	3551222	8.32KV_1P_Y1/0_AL	Overhead Line	36.7	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133527	3550054	8.32KV_1P_Y1/0_AL	Overhead Line	38.5	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133528	3550055	8.32KV_1P_Y1/0_AL	Overhead Line	31.4	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133529	3549619	8.32KV_1P_Y1/0_AL	Overhead Line	32.3	230.0000				4.5			0.9			0.4			99.66
BLKF5	GR133530	3549621	8.32KV_1P_Y1/0_AL	Overhead Line	34.0	230.0000				0.0			0.0			0.0			99.66
BLKF5	GR133531	3549622	8.32KV_1P_Y1/0_AL	Overhead Line	35.5	230.0000				0.0			0.0			0.0			99.66
BLKF5	GR133532	3549623	8.32KV_1P_Y1/0_AL	Overhead Line	35.6	230.0000				0.0			0.0			0.0			99.66
BLKF5	GR133541	3552734	8.32KV_3P_Y336_AL	Overhead Line	67.6	530.0000		67.0	7.2	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.68	99.99	99.69
BLKF5	GR133542	3551015	8.32KV_3P_Y336_AL	Overhead Line	36.7	530.0000		67.0	7.2	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.68	100.00	99.69
BLKF5	GR133543	3551016	8.32KV_3P_Y336_AL	Overhead Line	31.8	530.0000		67.0	7.2	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.68	100.00	99.68
BLKF5	GR133544	3549850	8.32KV_3P_Y336_AL	Overhead Line	62.4	530.0000		67.0	7.2	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.67	100.00	99.68
BLKF5	GR133545	3549851	8.32KV_3P_Y336_AL	Overhead Line	56.4	530.0000		67.0	7.2	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.66	100.01	99.68
BLKF5	GR133546	3549852	8.32KV_3P_Y336_AL	Overhead Line	64.1	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.66	100.01	99.67
BLKF5	GR133547	3549853	8.32KV_3P_Y336_AL	Overhead Line	53.8	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.65	100.02	99.67
BLKF5	GR133548	3549854	8.32KV_3P_Y336_AL	Overhead Line	69.2	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.64	100.02	99.66
BLKF5	GR133549	3551489	8.32KV_3P_Y336_AL	Overhead Line	69.1	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.64	100.03	99.66
BLKF5	GR133550	3551490	8.32KV_3P_Y336_AL	Overhead Line	76.3	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.63	100.03	99.66
BLKF5	GR133551	3551491	8.32KV_3P_Y336_AL	Overhead Line	76.7	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.62	100.04	99.65
BLKF5	GR133552	3551492	8.32KV_3P_Y336_AL	Overhead Line	72.4	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.61	100.05	99.65
BLKF5	GR133553	3551493	8.32KV_3P_Y336_AL	Overhead Line	73.9	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.60	100.05	99.64
BLKF5	GR133554	3551494	8.32KV_3P_Y336_AL	Overhead Line	73.3	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.59	100.06	99.64
BLKF5	GR133555	3551495	8.32KV_3P_Y336_AL	Overhead Line	72.8	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.59	100.06	99.63
BLKF5	GR133556	3587406	8.32KV_3P_Y336_AL	Overhead Line	70.3	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.58	100.07	99.63
BLKF5	GR133557	3551496	8.32KV_3P_Y336_AL	Overhead Line	70.1	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.57	100.08	99.62
BLKF5	GR133558	3551497	8.32KV_3P_Y336_AL	Overhead Line	58.9	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.56	100.08	99.62
BLKF5	GR133559	3551498	8.32KV_3P_Y336_AL	Overhead Line	39.1	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.56	100.08	99.62
BLKF5	GR133560	3551499	8.32KV_3P_Y336_AL	Overhead Line	52.7	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.55	100.09	99.61
BLKF5	GR133561	3553016	8.32KV_3P_Y336_AL	Overhead Line	50.0	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.55	100.09	99.61
BLKF5	GR133562	3553015	8.32KV_3P_Y336_AL	Overhead Line	66.1	530.0000		67.0	7.3	9.1	13.8	1.5	1.9	2.6	0.3	0.4	99.54	100.10	99.61
BLKF5	GR133563	3550370	8.32KV_3P_Y336_AL	Overhead Line	73.6	530.0000		63.0	0.1	0.1	13.0	0.0	0.0	2.4	0.0	0.0	99.53	100.10	99.60
BLKF5	GR133564	3550371	8.32KV_3P_Y336_AL	Overhead Line	70.8	530.0000		63.0	0.1	0.1	13.0	0.0	0.0	2.4	0.0	0.0	99.53	100.11	99.60
BLKF5	GR133565	3550372	8.32KV_3P_Y336_AL	Overhead Line	71.3	530.0000		63.0	0.0	0.0	13.0	0.0	0.0	2.4	0.0	0.0	99.52	100.12	99.59
BLKF5	GR133566	3550373	8.32KV_3P_Y336_AL	Overhead Line	71.2	530.0000		63.0	0.0	0.0	13.0	0.0	0.0	2.4	0.0	0.0	99.51	100.12	99.59
BLKF5	GR133567	3550374	8.32KV_3P_Y336_AL	Overhead Line	73.3	530.0000		63.0	0.0	0.0	13.0	0.0	0.0	2.4	0.0	0.0	99.50	100.13	99.59
BLKF5	GR133568	3550375	8.32KV_3P_Y336_AL	Overhead Line	48.6	530.0000		63.0	0.0	0.0	13.0	0.0	0.0	2.4	0.0	0.0	99.50	100.14	99.58

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
BLKF5	GR133569	3587322	8.32KV_3P_Y336_AL	Overhead Line	48.7	530.0000		63.0	0.0	0.0	13.0	0.0	0.0	2.4	0.0	0.0	99.49	100.14	99.58
BLKF5	GR133570	12983523	8.32KV_3P_N3/0_ACSR	Overhead Line	48.2	270.0000		7.8	0.0	0.0	1.6	0.0	0.0	0.6	0.0	0.0	99.49	100.14	99.58
BLKF5	GR133600	3550795	8.32KV_3P_Y336_AL	Overhead Line	42.1	530.0000		55.2	0.0	0.0	11.4	0.0	0.0	2.1	0.0	0.0	99.49	100.14	99.58
BLKF5	GR133601	10256628	JUMPER	Overhead Line	0.0	600.0000		55.2			11.4			1.9			99.49		
BLKF5	GR133602	3550796	8.32KV_1P_Y1/0_AL	Overhead Line	72.0	230.0000		55.2			11.4			4.9			99.48		
BLKF5	GR133603	3584646	8.32KV_1P_Y1/0_AL	Overhead Line	64.7	230.0000		55.2			11.4			4.9			99.47		
BLKF5	GR133604	3550997	8.32KV_1P_Y1/0_AL	Overhead Line	71.8	230.0000		55.2			11.4			4.9			99.46		
BLKF5	GR133605	3551153	8.32KV_1P_Y1/0_AL	Overhead Line	72.5	230.0000		55.2			11.4			4.9			99.45		
BLKF5	GR133606	3586749	8.32KV_1P_Y1/0_AL	Overhead Line	72.0	230.0000		55.2			11.4			4.9			99.44		
BLKF5	GR133607	3551154	8.32KV_1P_Y1/0_AL	Overhead Line	75.5	230.0000		55.2			11.4			4.9			99.43		
BLKF5	GR133608	3551155	8.32KV_1P_Y1/0_AL	Overhead Line	76.6	230.0000		55.2			11.4			4.9			99.41		
BLKF5	GR133609	3551156	8.32KV_1P_Y1/0_AL	Overhead Line	70.1	230.0000		55.2			11.4			4.9			99.40		
BLKF5	GR133610	3551157	8.32KV_1P_Y1/0_AL	Overhead Line	76.6	230.0000		55.2			11.4			4.9			99.39		
BLKF5	GR133611	3551158	8.32KV_1P_Y1/0_AL	Overhead Line	75.7	230.0000		55.2			11.4			4.9			99.38		
BLKF5	GR133612	3551159	8.32KV_1P_Y1/0_AL	Overhead Line	76.5	230.0000		55.2			11.4			4.9			99.37		
BLKF5	GR133613	3551160	8.32KV_1P_Y1/0_AL	Overhead Line	74.5	230.0000		55.2			11.4			4.9			99.36		
BLKF5	GR133614	3551170	8.32KV_1P_Y1/0_AL	Overhead Line	78.1	230.0000		55.2			11.4			4.9			99.35		
BLKF5	GR133615	3551250	8.32KV_1P_Y1/0_AL	Overhead Line	70.8	230.0000		55.2			11.4			4.9			99.34		
BLKF5	GR133616	3551011	8.32KV_1P_Y1/0_AL	Overhead Line	71.2	230.0000		55.2			11.4			4.9			99.33		
BLKF5	GR133617	3551252	8.32KV_1P_Y1/0_AL	Overhead Line	69.2	230.0000		55.2			11.4			4.9			99.32		
BLKF5	GR133618	3551253	8.32KV_1P_Y1/0_AL	Overhead Line	70.6	230.0000		55.2			11.4			4.9			99.31		
BLKF5	GR133619	3551407	8.32KV_1P_Y1/0_AL	Overhead Line	68.0	230.0000		55.1			11.4			5.0			99.30		
BLKF5	GR133620	3551408	8.32KV_1P_Y1/0_AL	Overhead Line	54.5	230.0000		55.1			11.4			5.0			99.29		
BLKF5	GR133621	3551410	8.32KV_1P_Y1/0_AL	Overhead Line	53.8	230.0000		55.1			11.4			5.0			99.28		
BLKF5	GR133622	3551411	8.32KV_1P_Y1/0_AL	Overhead Line	19.2	230.0000		55.1			11.4			5.0			99.28		
BLKF5	GR133623	3551412	8.32KV_1P_Y1/0_AL	Overhead Line	28.7	230.0000		46.6			9.6			4.2			99.28		
BLKF5	GR133624	3551413	8.32KV_1P_Y1/0_AL	Overhead Line	78.5	230.0000		12.8			2.6			1.1			99.27		
BLKF5	GR133625	3551415	8.32KV_1P_Y1/0_AL	Overhead Line	74.6	230.0000		12.8			2.6			1.1			99.27		
BLKF5	GR133626	3585593	8.32KV_1P_Y1/0_AL	Overhead Line	76.6	230.0000		12.8			2.6			1.1			99.27		
BLKF5	GR133627	3551416	8.32KV_1P_Y1/0_AL	Overhead Line	78.1	230.0000		12.8			2.6			1.2			99.27		
BLKF5	GR133628	3551417	8.32KV_1P_Y1/0_AL	Overhead Line	54.5	230.0000		12.8			2.6			1.2			99.27		
BLKF5	GR133629	3584563	8.32KV_1P_Y1/0_AL	Overhead Line	55.7	230.0000		12.8			2.6			1.2			99.26		
BLKF5	GR133630	3586832	8.32KV_1P_Y1/0_AL	Overhead Line	51.3	230.0000		12.8			2.6			1.2			99.26		
BLKF5	GR133631	3551418	8.32KV_1P_Y1/0_AL	Overhead Line	78.5	230.0000		12.8			2.6			1.2			99.26		
BLKF5	GR133632	3551419	8.32KV_1P_Y1/0_AL	Overhead Line	75.2	230.0000		12.8			2.6			1.2			99.26		
BLKF5	GR133633	3551420	8.32KV_1P_Y1/0_AL	Overhead Line	70.6	230.0000		12.8			2.6			1.2			99.25		
BLKF5	GR133634	3551421	8.32KV_1P_Y1/0_AL	Overhead Line	72.6	230.0000		12.8			2.6			1.2			99.25		
BLKF5	GR133635	3551422	8.32KV_1P_Y1/0_AL	Overhead Line	71.3	230.0000		12.8			2.6			1.2			99.25		
BLKF5	GR133636	4047965	8.32KV_1P_Y1/0_AL	Overhead Line	69.4	230.0000		12.8			2.6			1.2			99.25		
BLKF5	GR133637	4045458	8.32KV_1P_Y1/0_AL	Overhead Line	72.1	230.0000		12.8			2.6			1.2			99.24		
BLKF5	GR133638	4045457	8.32KV_1P_Y1/0_AL	Overhead Line	69.8	230.0000		12.8			2.6			1.2			99.24		
BLKF5	GR133639	4045456	8.32KV_1P_Y1/0_AL	Overhead Line	56.5	230.0000		12.8			2.6			1.2			99.24		
BLKF5	GR133640	4045449	8.32KV_1P_Y1/0_AL	Overhead Line	40.9	230.0000		12.8			2.6			1.2			99.24		
BLKF5	GR133641	4046214	8.32KV_1P_Y1/0_AL	Overhead Line	79.5	230.0000		12.4			2.6			1.1			99.24		
BLKF5	GR133642	4046197	8.32KV_1P_Y1/0_AL	Overhead Line	55.2	230.0000		12.4			2.6			1.1			99.23		
BLKF5	GR133643	4046799	8.32KV_1P_Y1/0_AL	Overhead Line	73.7	230.0000		12.4			2.6			1.1			99.23		
BLKF5	GR133644	4046797	8.32KV_1P_Y1/0_AL	Overhead Line	71.9	230.0000		12.4			2.6			1.1			99.23		
BLKF5	GR133645	4046795	8.32KV_1P_Y1/0_AL	Overhead Line	74.1	230.0000		12.4			2.6			1.1			99.23		
BLKF5	GR133646	4046793	8.32KV_1P_Y1/0_AL	Overhead Line	77.6	230.0000		12.4			2.6			1.1			99.23		
BLKF5	GR133647	4046792	8.32KV_1P_Y1/0_AL	Overhead Line	68.8	230.0000		12.4			2.6			1.1			99.22		
BLKF5	GR133648	4045370	8.32KV_1P_Y1/0_AL	Overhead Line	74.1	230.0000		12.4			2.6			1.1			99.22		
BLKF5	GR133649	4042475	8.32KV_1P_Y1/0_AL	Overhead Line	75.8	230.0000		12.4			2.6			1.1			99.22		
BLKF5	GR133650	4032381	8.32KV_1P_Y1/0_AL	Overhead Line	71.0	230.0000		12.4			2.6			1.1			99.22		
BLKF5	GR133651	4045738	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000		12.4			2.6			1.1			99.22		
BLKF5	GR133652	13172594	8.32KV_1P_Y1/0_AL	Overhead Line	19.1	230.0000		12.4			2.6			1.1			99.21		
BLKF5	GR133653	13120160	8.32KV_1P_Y3/0_ACSR	Overhead Line	30.0	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133654	13120190	8.32KV_1P_Y3/0_ACSR	Overhead Line	45.9	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133655	13120501	8.32KV_1P_Y3/0_ACSR	Overhead Line	59.7	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133656	13120503	8.32KV_1P_Y3/0_ACSR	Overhead Line	58.6	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133657	13120504	8.32KV_1P_Y3/0_ACSR	Overhead Line	56.6	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133658	13120506	8.32KV_1P_Y3/0_ACSR	Overhead Line	60.0	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133659	13120507	8.32KV_1P_Y3/0_ACSR	Overhead Line	62.2	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133660	13120509	8.32KV_1P_Y3/0_ACSR	Overhead Line	60.9	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133661	13120511	8.32KV_1P_Y3/0_ACSR	Overhead Line	55.9	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133662	13120513	8.32KV_1P_Y3/0_ACSR	Overhead Line	54.1	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133663	13120514	8.32KV_1P_Y3/0_ACSR	Overhead Line	60.3	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133664	13120515	8.32KV_1P_Y3/0_ACSR	Overhead Line	49.7	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133665	13120516	8.32KV_1P_Y3/0_ACSR	Overhead Line	51.1	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133666	13120517	8.32KV_1P_Y3/0_ACSR	Overhead Line	40.6	270.0000		3.9			0.8			0.3			99.21		
BLKF5	GR133669	4045464	8.32KV_1P_Y1/0_AL	Overhead Line	34.9	230.0000		6.9			1.4			0.6			99.21		
BLKF5	GR133670	4046944	8.32KV_1P_Y1/0_AL	Overhead Line	62.0	230.0000		6.9			1.4			0.6			99.21		
BLKF5	GR133671	4045380	8.32KV_1P_Y1/0_AL	Overhead Line	82.9	230.0000		6.9			1.4			0.6			99.21		
BLKF5	GR133672	4045396	8.32KV_1P_Y1/0_AL	Overhead Line	46.2	230.0000		6.9			1.4			0.6			99.21		
BLKF5	GR133673	4046980	8.32KV_1P_Y1/0_AL	Overhead Line	61.6	230.0000		7.0			1.4			0.6			99.21		
BLKF5	GR133674	4045101	8.32KV_1P_Y1/0_AL	Overhead Line	72.1	230.0000		6.2			1.3			0.6			99.21		
BLKF5	GR133675	4048091	8.32KV_1P_Y1/0_AL	Overhead Line	71.3	230.0000		4.6			1.0			0.4			99.21		
BLKF5	GR133676	4045553	8.32KV_1P_Y1/0_AL	Overhead Line	67.9	230.0000		4.6			1.0			0.4			99.21		
BLKF5	GR133677	4047790	8.32KV_1P_Y1/0_AL	Overhead Line	59.0	230.0000		4.6			1.0			0.4			99.21		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
BLKF5	GR133678	4045643	8.32KV_1P_Y1/0_AL	Overhead Line	51.2	230.0000		4.6			1.0			0.4			99.21		
BLKF5	GR133679	4047800	8.32KV_1P_Y1/0_AL	Overhead Line	76.2	230.0000		4.6			1.0			0.4			99.20		
BLKF5	GR133680	4045741	8.32KV_1P_Y1/0_AL	Overhead Line	60.2	230.0000		4.6			1.0			0.4			99.20		
BLKF5	GR133681	4046046	8.32KV_1P_Y1/0_AL	Overhead Line	62.2	230.0000		4.6			1.0			0.4			99.20		
BLKF5	GR133682	4046443	8.32KV_1P_Y1/0_AL	Overhead Line	62.2	230.0000		4.6			1.0			0.4			99.20		
BLKF5	GR133683	4046444	8.32KV_1P_Y1/0_AL	Overhead Line	72.9	230.0000		4.6			1.0			0.4			99.20		
BLKF5	GR133684	4045641	8.32KV_1P_Y1/0_AL	Overhead Line	78.1	230.0000		4.6			1.0			0.4			99.20		
BLKF5	GR133685	4046768	8.32KV_1P_Y1/0_AL	Overhead Line	67.3	230.0000		4.6			1.0			0.4			99.20		
BLKF5	GR133686	4045377	8.32KV_1P_Y1/0_AL	Overhead Line	66.0	230.0000		4.6			1.0			0.4			99.20		
BLKF5	GR133687	4045378	8.32KV_1P_Y1/0_AL	Overhead Line	130.7	230.0000		4.6			1.0			0.4			99.20		
BLKF5	GR133688	4045642	8.32KV_1P_Y1/0_AL	Overhead Line	69.4	230.0000		4.6			1.0			0.4			99.20		
BLKF5	GR133689	4044568	8.32KV_1P_Y1/0_AL	Overhead Line	67.7	230.0000		4.6			1.0			0.4			99.20		
BLKF5	GR133690	4044188	8.32KV_1P_Y1/0_AL	Overhead Line	73.4	230.0000		4.6			1.0			0.4			99.19		
BLKF5	GR133691	4044190	8.32KV_1P_Y1/0_AL	Overhead Line	77.9	230.0000		4.6			1.0			0.4			99.19		
BLKF5	GR133692	4044191	8.32KV_1P_Y1/0_AL	Overhead Line	92.2	230.0000		4.6			1.0			0.4			99.19		
BLKF5	GR133693	4044192	8.32KV_1P_Y1/0_AL	Overhead Line	78.2	230.0000		4.6			1.0			0.4			99.19		
BLKF5	GR133694	4044193	8.32KV_1P_Y1/0_AL	Overhead Line	41.9	230.0000		4.6			1.0			0.4			99.19		
BLKF5	GR133695	4044194	8.32KV_1P_Y1/0_AL	Overhead Line	35.2	230.0000		4.7			1.0			0.4			99.19		
BLKF5	GR133696	4044195	8.32KV_1P_Y1/0_AL	Overhead Line	21.8	230.0000		4.7			1.0			0.4			99.19		
BLKF5	GR133697	4042593	8.32KV_1P_Y1/0_AL	Overhead Line	66.5	230.0000		4.7			1.0			0.4			99.19		
BLKF5	GR133698	4042594	8.32KV_1P_Y1/0_AL	Overhead Line	33.7	230.0000		4.7			1.0			0.4			99.19		
BLKF5	GR133699	4047429	8.32KV_1P_Y1/0_AL	Overhead Line	33.0	230.0000		4.7			1.0			0.4			99.19		
BLKF5	GR133700	4042595	8.32KV_1P_Y1/0_AL	Overhead Line	34.8	230.0000		4.7			1.0			0.4			99.19		
BLKF5	GR133701	4042596	8.32KV_1P_Y1/0_AL	Overhead Line	32.4	230.0000		4.7			1.0			0.4			99.19		
BLKF5	GR133702	4042597	8.32KV_1P_Y1/0_AL	Overhead Line	62.7	230.0000		4.7			1.0			0.4			99.19		
BLKF5	GR133703	4042598	8.32KV_1P_Y1/0_AL	Overhead Line	38.2	230.0000		1.6			0.3			0.1			99.19		
BLKF5	GR133704	4042599	8.32KV_1P_Y1/0_AL	Overhead Line	39.7	230.0000		1.6			0.3			0.1			99.19		
BLKF5	GR133705	4042600	8.32KV_1P_Y1/0_AL	Overhead Line	39.6	230.0000		1.6			0.3			0.1			99.19		
BLKF5	GR133708	4042601	8.32KV_1P_Y1/0_AL	Overhead Line	79.9	230.0000		3.1			0.6			0.3			99.19		
BLKF5	GR133709	4042602	8.32KV_1P_Y1/0_AL	Overhead Line	28.1	230.0000		3.1			0.6			0.3			99.19		
BLKF5	GR133710	4042603	8.32KV_1P_Y1/0_AL	Overhead Line	48.0	230.0000		1.6			0.3			0.1			99.19		
BLKF5	GR133719	4045614	8.32KV_1P_Y1/0_AL	Overhead Line	34.8	230.0000		1.6			0.3			0.1			99.21		
BLKF5	GR133724	3553034	8.32KV_1P_Y1/0_AL	Overhead Line	5.0	230.0000		33.8			7.0			3.0			99.28		
BLKF5	GR133725	3553033	DEFAULT	Overhead Line	46.0	1000.0000		33.8			7.0			0.7			99.27		
BLKF5	GR133726	3549555	DEFAULT	Overhead Line	146.2	1000.0000		33.8			7.0			0.7			99.24		
BLKF5	GR133727	3550174	DEFAULT	Overhead Line	80.8	1000.0000		33.8			7.0			0.7			99.23		
BLKF5	GR133728	14661051	DEFAULT	Overhead Line	57.7	1000.0000		29.9			6.2			0.6			99.22		
BLKF5	GR133729	3521527	DEFAULT	Overhead Line	53.5	1000.0000		29.9			6.2			0.6			99.21		
BLKF5	GR133730	3521528	DEFAULT	Overhead Line	39.4	1000.0000		26.1			5.4			0.5			99.21		
BLKF5	GR133731	3586533	DEFAULT	Overhead Line	42.7	1000.0000		26.1			5.4			0.5			99.20		
BLKF5	GR133732	3521529	DEFAULT	Overhead Line	38.1	1000.0000		26.1			5.4			0.5			99.20		
BLKF5	GR133733	3521530	DEFAULT	Overhead Line	59.0	1000.0000		26.1			5.4			0.5			99.19		
BLKF5	GR133734	3521531	DEFAULT	Overhead Line	26.8	1000.0000		22.2			4.6			0.5			99.19		
BLKF5	GR133735	3521532	DEFAULT	Overhead Line	29.6	1000.0000		22.2			4.6			0.5			99.18		
BLKF5	GR133736	3521533	DEFAULT	Overhead Line	57.3	1000.0000		21.4			4.4			0.4			99.18		
BLKF5	GR133737	3521534	DEFAULT	Overhead Line	48.4	1000.0000		21.4			4.4			0.4			99.17		
BLKF5	GR133738	3521535	DEFAULT	Overhead Line	73.0	1000.0000		21.4			4.4			0.4			99.16		
BLKF5	GR133739	3521536	DEFAULT	Overhead Line	65.6	1000.0000		21.4			4.4			0.4			99.15		
BLKF5	GR133740	3521537	DEFAULT	Overhead Line	57.0	1000.0000		19.1			3.9			0.4			99.15		
BLKF5	GR133741	3585189	DEFAULT	Overhead Line	56.1	1000.0000		19.1			3.9			0.4			99.14		
BLKF5	GR133742	3521538	DEFAULT	Overhead Line	55.6	1000.0000		19.1			3.9			0.4			99.14		
BLKF5	GR133743	3587109	DEFAULT	Overhead Line	63.3	1000.0000		19.1			3.9			0.4			99.13		
BLKF5	GR133744	3521539	DEFAULT	Overhead Line	78.2	1000.0000		19.1			3.9			0.4			99.12		
BLKF5	GR133745	3584561	DEFAULT	Overhead Line	52.1	1000.0000		18.3			3.8			0.4			99.12		
BLKF5	GR133746	3521540	DEFAULT	Overhead Line	92.7	1000.0000		17.5			3.6			0.4			99.11		
BLKF5	GR133747	3521541	DEFAULT	Overhead Line	32.5	1000.0000		17.5			3.6			0.4			99.11		
BLKF5	GR133748	3521542	DEFAULT	Overhead Line	44.9	1000.0000		17.5			3.6			0.4			99.10		
BLKF5	GR133749	3521543	DEFAULT	Overhead Line	68.8	1000.0000		17.5			3.6			0.4			99.10		
BLKF5	GR133750	3521544	DEFAULT	Overhead Line	64.4	1000.0000		17.5			3.6			0.4			99.09		
BLKF5	GR133751	3521545	DEFAULT	Overhead Line	57.5	1000.0000		17.5			3.6			0.4			99.09		
BLKF5	GR133752	3521546	DEFAULT	Overhead Line	63.2	1000.0000		13.6			2.8			0.3			99.08		
BLKF5	GR133753	3521547	DEFAULT	Overhead Line	58.3	1000.0000		13.6			2.8			0.3			99.08		
BLKF5	GR133754	3521548	DEFAULT	Overhead Line	74.0	1000.0000		13.6			2.8			0.3			99.07		
BLKF5	GR133755	3521549	DEFAULT	Overhead Line	53.4	1000.0000		13.6			2.8			0.3			99.07		
BLKF5	GR133756	3550786	DEFAULT	Overhead Line	89.0	1000.0000		13.6			2.8			0.3			99.06		
BLKF5	GR133757	3584951	DEFAULT	Overhead Line	43.4	1000.0000		13.6			2.8			0.3			99.06		
BLKF5	GR133758	3550787	DEFAULT	Overhead Line	57.6	1000.0000		12.1			2.5			0.2			99.06		
BLKF5	GR133759	3550788	DEFAULT	Overhead Line	66.6	1000.0000		12.1			2.5			0.2			99.05		
BLKF5	GR133760	3550789	DEFAULT	Overhead Line	62.6	1000.0000		12.1			2.5			0.2			99.05		
BLKF5	GR133761	3550790	DEFAULT	Overhead Line	61.1	1000.0000		12.1			2.5			0.2			99.05		
BLKF5	GR133762	3550791	DEFAULT	Overhead Line	63.5	1000.0000		12.1			2.5			0.2			99.04		
BLKF5	GR133763	3550792	DEFAULT	Overhead Line	29.3	1000.0000		12.1			2.5			0.3			99.04		
BLKF5	GR133764	3584955	DEFAULT	Overhead Line	32.3	1000.0000		12.1			2.5			0.3			99.04		
BLKF5	GR133765	3551591	8.32KV_1P_Y1/0_AL	Overhead Line	4.1	230.0000		3.6			0.7			0.3			99.04		
BLKF5	GR133766	14732067	8.32KV_1P_Y1/0_AL	Overhead Line	34.6	230.0000		3.6			0.7			0.3			99.04		
BLKF5	GR133767	3551592	8.32KV_1P_Y1/0_AL	Overhead Line	67.4	230.0000		3.6			0.7			0.3			99.04		
BLKF5	GR133768	3551593	8.32KV_1P_Y2_AL	Overhead Line	49.4	230.0000		3.6			0.7			0.3			99.04		
BLKF5	GR133769	3551594	8.32KV_1P_Y1/0_AL	Overhead Line	68.3	230.0000		3.6			0.7			0.3			99.04		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
BLKF5	GR133770	3551595	8.32KV_1P_Y1/0_AL	Overhead Line	56.3	230.0000		3.6			0.7			0.3			99.03		
BLKF5	GR133771	3551596	8.32KV_1P_Y1/0_AL	Overhead Line	64.2	230.0000		3.6			0.7			0.3			99.03		
BLKF5	GR133772	3551597	8.32KV_1P_Y1/0_AL	Overhead Line	62.9	230.0000		3.6			0.7			0.3			99.03		
BLKF5	GR133773	3586747	8.32KV_1P_Y1/0_AL	Overhead Line	63.2	230.0000		3.6			0.7			0.3			99.03		
BLKF5	GR133774	3551598	8.32KV_1P_Y1/0_AL	Overhead Line	57.8	230.0000		3.6			0.7			0.3			99.03		
BLKF5	GR133775	3585198	8.32KV_1P_Y1/0_AL	Overhead Line	52.3	230.0000		3.6			0.7			0.3			99.03		
BLKF5	GR133776	3551599	8.32KV_1P_Y1/0_AL	Overhead Line	34.8	230.0000		3.6			0.7			0.3			99.03		
BLKF5	GR133777	3551601	8.32KV_1P_Y1/0_AL	Overhead Line	34.8	230.0000		3.6			0.7			0.3			99.03		
BLKF5	GR133778	3586344	8.32KV_1P_Y1/0_AL	Overhead Line	80.5	230.0000		2.8			0.6			0.3			99.03		
BLKF5	GR133779	3551603	8.32KV_1P_Y1/0_AL	Overhead Line	47.1	230.0000		2.8			0.6			0.3			99.03		
BLKF5	GR133780	3551604	8.32KV_1P_Y1/0_AL	Overhead Line	52.8	230.0000		0.5			0.1			0.0			99.03		
BLKF5	GR133781	3551356	8.32KV_1P_Y1/0_AL	Overhead Line	67.5	230.0000		0.5			0.1			0.0			99.03		
BLKF5	GR133782	3584562	8.32KV_1P_Y1/0_AL	Overhead Line	68.4	230.0000		0.5			0.1			0.0			99.03		
BLKF5	GR133789	3585608	DEFAULT	Overhead Line	44.3	1000.0000		8.5			1.8			0.2			99.04		
BLKF5	GR133790	3550487	8.32KV_1P_Y1/0_AL	Overhead Line	51.3	230.0000		0.0			0.0			0.0			99.04		
BLKF5	GR133791	3550488	8.32KV_1P_Y1/0_AL	Overhead Line	56.8	230.0000		0.0			0.0			0.0			99.04		
BLKF5	GR133792	3551357	8.32KV_1P_Y1/0_AL	Overhead Line	2.1	230.0000		8.5			1.8			0.8			99.04		
BLKF5	GR133793	11302638	8.32KV_1P_Y1/0_AL	Overhead Line	12.4	230.0000		8.5			1.8			0.8			99.03		
BLKF5	GR133794	3551358	8.32KV_1P_Y1/0_AL	Overhead Line	75.3	230.0000		8.5			1.8			0.8			99.03		
BLKF5	GR133795	3551359	8.32KV_1P_Y1/0_AL	Overhead Line	75.7	230.0000		8.5			1.8			0.8			99.03		
BLKF5	GR133796	3551360	8.32KV_1P_Y1/0_AL	Overhead Line	74.7	230.0000		8.5			1.8			0.8			99.03		
BLKF5	GR133797	3585105	8.32KV_1P_Y1/0_AL	Overhead Line	78.7	230.0000		8.5			1.8			0.8			99.03		
BLKF5	GR133798	3551363	8.32KV_1P_Y1/0_AL	Overhead Line	72.5	230.0000		8.5			1.8			0.8			99.03		
BLKF5	GR133799	3551364	8.32KV_1P_Y1/0_AL	Overhead Line	76.5	230.0000		8.5			1.8			0.8			99.02		
BLKF5	GR133800	3551366	8.32KV_1P_Y1/0_AL	Overhead Line	74.8	230.0000		8.5			1.8			0.8			99.02		
BLKF5	GR133801	3551367	8.32KV_1P_Y1/0_AL	Overhead Line	73.7	230.0000		8.5			1.8			0.8			99.02		
BLKF5	GR133802	3586979	8.32KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000		8.5			1.8			0.8			99.02		
BLKF5	GR133803	3553958	8.32KV_1P_Y1/0_AL	Overhead Line	35.1	230.0000		8.5			1.8			0.8			99.02		
BLKF5	GR133804	3586327	8.32KV_1P_Y1/0_AL	Overhead Line	44.0	230.0000		8.5			1.8			0.8			99.02		
BLKF5	GR133805	3549753	8.32KV_1P_Y1/0_AL	Overhead Line	44.0	230.0000		8.5			1.8			0.8			99.02		
BLKF5	GR133806	3549754	8.32KV_1P_Y1/0_AL	Overhead Line	44.2	230.0000		8.5			1.8			0.8			99.02		
BLKF5	GR133807	3549755	8.32KV_1P_Y1/0_AL	Overhead Line	43.5	230.0000		8.5			1.8			0.8			99.02		
BLKF5	GR133808	3549756	8.32KV_1P_Y1/0_AL	Overhead Line	42.2	230.0000		8.5			1.8			0.8			99.02		
BLKF5	GR133809	3549757	8.32KV_1P_Y1/0_AL	Overhead Line	45.4	230.0000		7.8			1.6			0.7			99.01		
BLKF5	GR133810	3549758	8.32KV_1P_Y1/0_AL	Overhead Line	44.6	230.0000		7.8			1.6			0.7			99.01		
BLKF5	GR133811	3549759	8.32KV_1P_Y1/0_AL	Overhead Line	43.5	230.0000		7.8			1.6			0.7			99.01		
BLKF5	GR133812	3549760	8.32KV_1P_Y1/0_AL	Overhead Line	35.1	230.0000		7.8			1.6			0.7			99.01		
BLKF5	GR133813	14672686	8.32KV_1P_N1/0_AL	Overhead Line	9.0	230.0000		7.8			1.6			0.7			99.01		
BLKF5	GR133822	3552745	8.32KV_1P_Y2_AL	Overhead Line	66.6	230.0000		3.9			0.8			0.3			99.09		
BLKF5	GR133823	3553094	8.32KV_1P_Y2_AL	Overhead Line	41.3	230.0000		3.9			0.8			0.3			99.09		
BLKF5	GR133838	14661052	8.32KV_1P_N1/0_AL	Overhead Line	78.5	230.0000		3.9			0.8			0.3			99.23		
BLKF5	GR133839	14661054	8.32KV_1P_N1/0_AL	Overhead Line	75.8	230.0000		3.9			0.8			0.3			99.23		
BLKF5	GR133840	14661055	8.32KV_1P_N1/0_AL	Overhead Line	76.8	230.0000		3.9			0.8			0.3			99.23		
BLKF5	GR133841	14661056	8.32KV_1P_N1/0_AL	Overhead Line	49.1	230.0000		3.9			0.8			0.3			99.23		
BLKF5	GR133844	3584606	8.32KV_1P_Y1/0_AL	Overhead Line	78.9	230.0000		8.5			1.8			0.8			99.28		
BLKF5	GR133845	3550647	8.32KV_1P_Y1/0_AL	Overhead Line	42.3	230.0000		6.9			1.4			0.6			99.28		
BLKF5	GR133846	3585384	8.32KV_1P_Y1/0_AL	Overhead Line	68.5	230.0000		6.9			1.4			0.6			99.28		
BLKF5	GR133847	3550648	8.32KV_1P_Y1/0_AL	Overhead Line	55.0	230.0000		7.0			1.4			0.6			99.28		
BLKF5	GR133848	3550649	8.32KV_1P_Y1/0_AL	Overhead Line	37.9	230.0000		7.0			1.4			0.6			99.28		
BLKF5	GR133849	3550650	8.32KV_1P_Y1/0_AL	Overhead Line	38.4	230.0000		7.0			1.4			0.6			99.27		
BLKF5	GR133850	3586993	8.32KV_1P_Y1/0_AL	Overhead Line	69.7	230.0000		7.0			1.4			0.6			99.27		
BLKF5	GR133851	3584564	8.32KV_1P_Y1/0_AL	Overhead Line	47.6	230.0000		7.0			1.4			0.6			99.27		
BLKF5	GR133852	3550652	8.32KV_1P_Y1/0_AL	Overhead Line	23.1	230.0000		7.0			1.4			0.6			99.27		
BLKF5	GR133853	3550651	8.32KV_1P_Y1/0_AL	Overhead Line	71.5	230.0000		4.6			1.0			0.4			99.27		
BLKF5	GR133854	3550653	8.32KV_1P_Y1/0_AL	Overhead Line	72.6	230.0000		4.6			1.0			0.4			99.27		
BLKF5	GR133855	3550654	8.32KV_1P_Y1/0_AL	Overhead Line	75.7	230.0000		4.6			1.0			0.4			99.27		
BLKF5	GR133856	3550655	8.32KV_1P_Y1/0_AL	Overhead Line	67.1	230.0000		4.6			1.0			0.4			99.27		
BLKF5	GR133857	3550656	8.32KV_1P_Y1/0_AL	Overhead Line	53.9	230.0000		4.6			1.0			0.4			99.27		
BLKF5	GR133858	3550657	8.32KV_1P_Y1/0_AL	Overhead Line	67.9	230.0000		3.9			0.8			0.3			99.27		
BLKF5	GR133859	3550658	8.32KV_1P_Y1/0_AL	Overhead Line	62.1	230.0000		3.9			0.8			0.3			99.27		
BLKF5	GR133860	3550659	8.32KV_1P_Y1/0_AL	Overhead Line	72.5	230.0000		3.9			0.8			0.3			99.27		
BLKF5	GR133861	3584797	8.32KV_1P_Y1/0_AL	Overhead Line	72.3	230.0000		3.9			0.8			0.3			99.27		
BLKF5	GR133862	3550660	8.32KV_1P_Y1/0_AL	Overhead Line	73.0	230.0000		3.9			0.8			0.3			99.26		
BLKF5	GR133863	3551458	8.32KV_1P_Y1/0_AL	Overhead Line	72.9	230.0000		3.9			0.8			0.3			99.26		
BLKF5	GR133864	3551459	8.32KV_1P_Y1/0_AL	Overhead Line	55.4	230.0000		3.9			0.8			0.3			99.26		
BLKF5	GR133865	3551460	8.32KV_1P_Y1/0_AL	Overhead Line	71.7	230.0000		3.9			0.8			0.3			99.26		
BLKF5	GR133866	3551461	8.32KV_1P_Y1/0_AL	Overhead Line	60.0	230.0000		3.9			0.8			0.3			99.26		
BLKF5	GR133867	3551462	8.32KV_1P_Y1/0_AL	Overhead Line	67.0	230.0000		3.9			0.8			0.3			99.26		
BLKF5	GR133868	3584565	8.32KV_1P_Y1/0_AL	Overhead Line	88.3	230.0000		2.3			0.5			0.2			99.26		
BLKF5	GR133869	3551463	8.32KV_1P_Y1/0_AL	Overhead Line	61.2	230.0000		2.3			0.5			0.2			99.26		
BLKF5	GR133870	3553963	8.32KV_1P_Y1/0_AL	Overhead Line	68.9	230.0000		2.3			0.5			0.2			99.26		
BLKF5	GR133871	3585385	8.32KV_1P_Y1/0_AL	Overhead Line	69.3	230.0000		2.3			0.5			0.2			99.26		
BLKF5	GR133872	3551464	8.32KV_1P_Y1/0_AL	Overhead Line	58.6	230.0000		2.3			0.5			0.2			99.26		
BLKF5	GR133873	3551465	8.32KV_1P_Y1/0_AL	Overhead Line	79.2	230.0000		2.3			0.5			0.2			99.26		
BLKF5	GR133874	3584808	8.32KV_1P_Y1/0_AL	Overhead Line	64.6	230.0000		2.3			0.5			0.2			99.26		
BLKF5	GR133875	3551466	8.32KV_1P_Y1/0_AL	Overhead Line	71.0	230.0000		2.3			0.5			0.2			99.26		
BLKF5	GR133876	3551467	8.32KV_1P_Y1/0_AL	Overhead Line	73.6	230.0000		2.3			0.5			0.2			99.26		
BLKF5	GR133877	3551470	8.32KV_1P_Y1/0_AL	Overhead Line	65.8	230.0000		2.3			0.5			0.2			99.26		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
BLKF5	GR133878	3551471	8.32KV_1P_Y1/0_AL	Overhead Line	71.6	230.0000		2.3			0.5			0.2			99.26		
BLKF5	GR133879	3551472	8.32KV_1P_Y1/0_AL	Overhead Line	73.8	230.0000		2.3			0.5			0.2			99.26		
BLKF5	GR133890	3550956	8.32KV_3P_Y336_AL	Overhead Line	21.6	530.0000		4.0	7.3	9.1	0.8	1.5	1.9	0.2	0.3	0.4	99.54	100.10	99.61
BLKF5	GR133891	3550170	8.32KV_3P_Y336_AL	Overhead Line	39.6	530.0000		4.0	7.3	9.1	0.8	1.5	1.9	0.2	0.3	0.4	99.54	100.10	99.61
BLKF5	GR133892	3550171	8.32KV_3P_Y1/0_AL	Overhead Line	79.7	230.0000		4.0	7.3	9.1	0.8	1.5	1.9	0.4	0.7	0.8	99.54	100.09	99.60
BLKF5	GR133893	3550172	8.32KV_3P_Y1/0_AL	Overhead Line	72.7	230.0000		4.0	7.3	9.1	0.8	1.5	1.9	0.4	0.7	0.8	99.54	100.09	99.60
BLKF5	GR133894	3550173	8.32KV_3P_Y1/0_AL	Overhead Line	39.5	230.0000		3.8	7.0	8.9	0.8	1.4	1.8	0.3	0.6	0.8	99.54	100.09	99.60
BLKF5	GR133895	3554196	8.32KV_3P_Y1/0_AL	Overhead Line	36.4	230.0000		3.8	7.0	9.0	0.8	1.4	1.8	0.3	0.6	0.8	99.54	100.09	99.60
BLKF5	GR133896	3554197	8.32KV_3P_Y1/0_AL	Overhead Line	36.9	230.0000		3.9	7.0	9.0	0.8	1.4	1.8	0.3	0.6	0.8	99.54	100.09	99.60
BLKF5	GR133897	3554198	8.32KV_3P_Y1/0_AL	Overhead Line	39.1	230.0000		3.9	7.0	9.0	0.8	1.4	1.8	0.3	0.6	0.8	99.54	100.09	99.60
BLKF5	GR133898	3554200	8.32KV_3P_Y1/0_AL	Overhead Line	36.2	230.0000		3.9	7.0	9.0	0.8	1.4	1.8	0.3	0.6	0.8	99.54	100.09	99.60
BLKF5	GR133899	3554354	8.32KV_3P_Y1/0_AL	Overhead Line	36.2	230.0000		3.9	7.0	9.0	0.8	1.4	1.8	0.3	0.6	0.8	99.54	100.09	99.60
BLKF5	GR133900	3554355	8.32KV_3P_Y1/0_AL	Overhead Line	73.9	230.0000		3.9	7.0	9.0	0.8	1.4	1.8	0.3	0.6	0.8	99.54	100.09	99.60
BLKF5	GR133901	3585785	8.32KV_3P_Y1/0_AL	Overhead Line	31.4	230.0000		3.9	7.0	9.0	0.8	1.4	1.8	0.3	0.6	0.8	99.54	100.09	99.60
BLKF5	GR133902	3554356	8.32KV_3P_Y1/0_AL	Overhead Line	39.3	230.0000		3.9	7.0	9.0	0.8	1.4	1.8	0.3	0.6	0.8	99.54	100.09	99.60
BLKF5	GR133903	3554357	8.32KV_3P_Y1/0_AL	Overhead Line	27.2	230.0000		3.9	7.0	9.0	0.8	1.4	1.8	0.3	0.6	0.8	99.54	100.09	99.60
BLKF5	GR133904	3554358	8.32KV_3P_Y1/0_AL	Overhead Line	38.1	230.0000		3.9	7.0	9.0	0.8	1.4	1.8	0.3	0.6	0.8	99.54	100.08	99.60
BLKF5	GR133905	3584771	8.32KV_3P_Y1/0_AL	Overhead Line	39.1	230.0000		3.9	7.0	4.5	0.8	1.4	0.9	0.3	0.6	0.4	99.54	100.08	99.60
BLKF5	GR133906	3586518	8.32KV_3P_Y1/0_AL	Overhead Line	42.5	230.0000		3.9	7.0	4.5	0.8	1.4	0.9	0.3	0.6	0.4	99.54	100.08	99.60
BLKF5	GR133909	3585130	8.32KV_3P_Y1/0_AL	Overhead Line	4.4	230.0000		0.0	0.0	4.5	0.0	0.0	0.9	0.0	0.0	0.4	99.54	100.08	99.60
BLKF5	GR133910	3554359	8.32KV_3P_Y1/0_AL	Overhead Line	44.3	230.0000		0.0	0.0	4.5	0.0	0.0	0.9	0.0	0.0	0.4	99.54	100.08	99.60
BLKF5	GR133911	3554360	8.32KV_3P_Y1/0_AL	Overhead Line	33.8	230.0000		0.0	0.0	4.5	0.0	0.0	0.9	0.0	0.0	0.4	99.54	100.08	99.60
BLKF5	GR133912	3554361	8.32KV_3P_Y1/0_AL	Overhead Line	31.1	230.0000		0.0	0.0	4.5	0.0	0.0	0.9	0.0	0.0	0.4	99.54	100.08	99.60
BLKF5	GR133913	3554362	8.32KV_3P_Y1/0_AL	Overhead Line	30.0	230.0000		0.0	0.0	4.5	0.0	0.0	0.9	0.0	0.0	0.4	99.54	100.08	99.60
BLKF5	GR133914	3554363	8.32KV_3P_Y1/0_AL	Overhead Line	31.2	230.0000		0.0	0.0	4.5	0.0	0.0	0.9	0.0	0.0	0.4	99.54	100.08	99.59
BLKF5	GR133915	3554364	8.32KV_3P_Y1/0_AL	Overhead Line	36.1	230.0000		0.0	0.0	4.5	0.0	0.0	0.9	0.0	0.0	0.4	99.54	100.08	99.59
BLKF5	GR133916	3554365	8.32KV_3P_Y1/0_AL	Overhead Line	31.8	230.0000		0.0	0.0	4.5	0.0	0.0	0.9	0.0	0.0	0.4	99.54	100.08	99.59
BLKF5	GR133917	3586781	8.32KV_3P_Y1/0_AL	Overhead Line	25.9	230.0000		0.0	0.0	4.5	0.0	0.0	0.9	0.0	0.0	0.4	99.54	100.08	99.59
BLKF5	GR133918	3554366	8.32KV_3P_Y1/0_AL	Overhead Line	44.5	230.0000		0.0	0.0	4.5	0.0	0.0	0.9	0.0	0.0	0.4	99.54	100.08	99.59
BLKF5	GR133919	3554367	8.32KV_3P_Y1/0_AL	Overhead Line	84.1	230.0000		0.0	0.0	4.5	0.0	0.0	0.9	0.0	0.0	0.4	99.54	100.08	99.59
BLKF5	GR133920	3553483	8.32KV_1P_Y1/0_AL	Overhead Line	88.6	230.0000				4.5			0.9			0.4			99.59
BLKF5	GR133921	3553484	8.32KV_1P_Y1/0_AL	Overhead Line	79.5	230.0000				4.5			0.9			0.4			99.59
BLKF5	GR133922	3553485	8.32KV_1P_Y1/0_AL	Overhead Line	82.8	230.0000				4.5			0.9			0.4			99.59
BLKF5	GR133923	3553486	8.32KV_1P_Y1/0_AL	Overhead Line	57.0	230.0000				4.5			0.9			0.4			99.59
BLKF5	GR133924	3553640	8.32KV_1P_Y1/0_AL	Overhead Line	59.2	230.0000				4.5			0.9			0.4			99.59
BLKF5	GR133925	3553641	8.32KV_1P_Y1/0_AL	Overhead Line	73.6	230.0000				4.5			0.9			0.4			99.59
BLKF5	GR133926	3587420	8.32KV_1P_Y1/0_AL	Overhead Line	77.0	230.0000				4.5			0.9			0.4			99.59
BLKF5	GR133927	3553642	8.32KV_1P_Y1/0_AL	Overhead Line	77.1	230.0000				4.5			0.9			0.4			99.59
BLKF5	GR133928	3553643	8.32KV_1P_Y1/0_AL	Overhead Line	36.4	230.0000				4.5			0.9			0.4			99.59
BLKF5	GR133929	3553644	8.32KV_1P_Y1/0_AL	Overhead Line	52.9	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133930	3553645	8.32KV_1P_Y1/0_AL	Overhead Line	51.0	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133931	3553646	8.32KV_1P_Y1/0_AL	Overhead Line	53.3	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133932	3585181	8.32KV_1P_Y1/0_AL	Overhead Line	53.3	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133933	3553647	8.32KV_1P_Y1/0_AL	Overhead Line	42.4	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133934	3553648	8.32KV_1P_Y1/0_AL	Overhead Line	41.9	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133935	3553649	8.32KV_1P_Y1/0_AL	Overhead Line	78.7	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133936	3553650	8.32KV_1P_Y1/0_AL	Overhead Line	83.6	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133937	3553887	8.32KV_1P_Y1/0_AL	Overhead Line	49.4	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133938	3553888	8.32KV_1P_Y1/0_AL	Overhead Line	49.2	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133939	3585131	8.32KV_1P_Y1/0_AL	Overhead Line	83.0	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133940	3585132	8.32KV_1P_Y1/0_AL	Overhead Line	71.3	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133941	3586595	8.32KV_1P_Y1/0_AL	Overhead Line	72.6	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133942	3585133	8.32KV_1P_Y1/0_AL	Overhead Line	73.7	230.0000				4.5			0.9			0.4			99.58
BLKF5	GR133943	3585134	8.32KV_1P_Y1/0_AL	Overhead Line	39.8	230.0000				4.5			0.9			0.4			99.57
BLKF5	GR133944	3585135	8.32KV_1P_Y1/0_AL	Overhead Line	38.2	230.0000				4.5			0.9			0.4			99.57
BLKF5	GR133945	3585136	8.32KV_1P_Y1/0_AL	Overhead Line	62.9	230.0000				4.5			0.9			0.4			99.57
BLKF5	GR133946	3584778	8.32KV_1P_Y1/0_AL	Overhead Line	70.0	230.0000				4.5			0.9			0.4			99.57
BLKF5	GR133947	3584542	8.32KV_1P_Y1/0_AL	Overhead Line	78.3	230.0000				4.5			0.9			0.4			99.57
BLKF5	GR133948	3584543	8.32KV_1P_Y1/0_AL	Overhead Line	78.4	230.0000				4.5			0.9			0.4			99.57
BLKF5	GR133949	3584544	8.32KV_1P_Y1/0_AL	Overhead Line	66.9	230.0000				4.5			0.9			0.4			99.57
BLKF5	GR133950	3584545	8.32KV_1P_Y1/0_AL	Overhead Line	67.0	230.0000				4.5			0.9			0.4			99.57
BLKF5	GR133951	3584546	8.32KV_1P_Y1/0_AL	Overhead Line	80.1	230.0000				4.5			0.9			0.4			99.57
BLKF5	GR133952	3584547	8.32KV_1P_Y1/0_AL	Overhead Line	73.3	230.0000				4.5			0.9			0.4			99.57
BLKF5	GR133953	3584700	8.32KV_1P_Y1/0_AL	Overhead Line	77.2	230.0000				4.5			0.9			0.4			99.57
BLKF5	GR133954	3584701	8.32KV_1P_Y1/0_AL	Overhead Line	78.9	230.0000				4.5			0.9			0.4			99.57
BLKF5	GR133955	3584702	8.32KV_1P_Y1/0_AL	Overhead Line	50.1	230.0000				4.5			0.9			0.4			99.56
BLKF5	GR133956	3584703	8.32KV_1P_Y1/0_AL	Overhead Line	42.0	230.0000				4.5			0.9			0.4			99.56
BLKF5	GR133957	3584704	8.32KV_1P_Y1/0_AL	Overhead Line	36.8	230.0000				4.5			0.9			0.4			99.56
BLKF5	GR133958	3584705	8.32KV_1P_Y1/0_AL	Overhead Line	45.9	230.0000				4.5			0.9			0.4			99.56
BLKF5	GR133959	3586216	8.32KV_1P_Y1/0_AL	Overhead Line	47.1	230.0000				4.5			0.9			0.4			99.56
BLKF5	GR133964	3554926	8.32KV_1P_Y1/0_AL	Overhead Line	2.0	230.0000				0.0			0.0			0.0			99.75
BLKF5	GR133430	GLTE2410-1657605	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			9.0			1.9			18.0			99.32
BLKF5	GR133447	X24549_-15449811	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			9.0			1.9			18.0			99.28
BLKF5	GR133458	X18845-1654613	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.2			2.9			28.2			99.34	
BLKF5	GR133466	X18839-1654520	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		2.8			0.6			28.2			99.34	
BLKF5	GR133468	X18834-1654553	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.1			1.5			28.2			99.35	
BLKF5	GR133518	X18859-14694688	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			4.5			0.9			18.0			99.24
BLKF5	GR133522	X24550-1653763	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			4.5			0.9			18.0			99.25

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
BLKF5	GR133533	X18853-1654390	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			4.5			0.9			18.0			99.25
BLKF5	GR133535	X18896-1654441	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.8			0.4			18.0			99.27
BLKF5	GR133537	X18899-1654643	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.8			0.4			18.0			99.27
BLKF5	GR133539	X18900-14732366	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.8			0.4			18.0			99.28
BLKF5	GR133582	TV6927-D1-16434745	8.32KV_UNKNOWN_-1_3P	Two-Winding Transformer	0.0		50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.48	100.14	99.58
BLKF5	GR133589	TBD-11575154	8.32KV_120V/240V_-1_1P	Two-Winding Transformer	0.0		50.00		0.0			0.0			0.0			100.14	
BLKF5	GR133594	TBD-11575155	8.32KV_120V/240V_-1_1P	Two-Winding Transformer	0.0		50.00			0.0			0.0			0.0			99.58
BLKF5	GR133598	TBD-11575153	8.32KV_120V/240V_-1_1P	Two-Winding Transformer	0.0		50.00	7.8			1.6			15.5			99.39		
BLKF5	GR133667	X45047-13120485	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	3.9			0.8			15.5			98.85		
BLKF5	GR133706	X19857-1654251	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	1.6			0.3			15.5			98.83		
BLKF5	GR133711	X24304-1654631	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	1.6			0.3			15.5			98.83		
BLKF5	GR133713	X24303-1654998	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	1.6			0.3			15.5			98.83		
BLKF5	GR133715	X19882-1654639	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	1.6			0.3			15.5			98.86		
BLKF5	GR133717	X19883-1654629	8.32KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00	0.8			0.2			15.5			98.86		
BLKF5	GR133720	X19845-1653989	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	1.6			0.3			15.5			98.86		
BLKF5	GR133722	X19824-1654056	8.32KV_120V/240V_3_1P	Two-Winding Transformer	0.0		3.00	0.5			0.1			15.5			99.14		
BLKF5	GR133783	X19730-1655203	8.32KV_120V/240V_3_1P	Two-Winding Transformer	0.0		3.00	0.5			0.1			15.5			98.93		
BLKF5	GR133785	X19727-1654627	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00	2.3			0.5			15.5			98.68		
BLKF5	GR133787	X19725-1654628	8.32KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00	0.8			0.2			15.5			98.68		
BLKF5	GR133816	TP10366-14672685	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	7.8			1.6			15.5			98.65		
BLKF5	GR133818	X19745-1653639	8.32KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00	0.8			0.2			15.5			98.66		
BLKF5	GR133820	X19696-1653782	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	1.6			0.3			15.5			98.71		
BLKF5	GR133824	X24074-1654252	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	3.9			0.8			15.5			98.73		
BLKF5	GR133826	X19680-3629640	8.32KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00	0.8			0.2			15.5			98.77		
BLKF5	GR133828	X19679-1653785	8.32KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00	0.8			0.2			15.5			98.77		
BLKF5	GR133830	X19674-1654558	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00	2.3			0.5			15.5			98.80		
BLKF5	GR133832	X19670-11321053	8.32KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00	0.8			0.2			15.5			98.83		
BLKF5	GR133834	X19668-1653844	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	3.9			0.8			15.5			98.84		
BLKF5	GR133836	X19664-11552473	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	3.9			0.8			15.5			98.86		
BLKF5	GR133842	X47564-13245801	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	3.9			0.8			15.5			98.87		
BLKF5	GR133880	X19767-1654587	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00	2.3			0.5			15.5			98.90		
BLKF5	GR133882	X19781-1654550	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	1.6			0.3			15.5			98.91		
BLKF5	GR133884	X19792-1654433	8.32KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00	0.8			0.2			15.5			98.92		
BLKF5	GR133886	X19797-1654571	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00	2.3			0.5			15.5			98.92		
BLKF5	GR133888	X19805-1654414	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	1.6			0.3			15.5			98.93		
BLKF5	GR133907	X24075-1655287	8.32KV_UNKNOWN_75_3P	Two-Winding Transformer	0.0		75.00	3.9	7.1	4.5	0.8	1.4	0.9	5.2	9.4	6.0	99.51	100.03	99.56
BLKF5	GR133960	X24122-1653672	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			4.5			0.9			18.0			99.15
BLKF5	GR133962	X19633-1653593	8.32KV_UNKNOWN_3_3P	Two-Winding Transformer	0.0		3.00	0.2	0.3	0.2	0.0	0.1	0.0	5.2	9.4	6.0	99.51	100.04	99.57

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
ELW14	GR282416	11576655	BUS13.2KV_3P_0A__AIR	Cable	0.1	600.0000		1352.8	1638.2	903.4	177.5	215.0	118.5	29.6	35.8	19.8	100.00	100.00	100.00
ELW14	GR282417	11576654	BUS13.2KV_3P_0A__AIR	Cable	0.1	600.0000		1352.8	1638.2	903.4	177.5	215.0	118.5	29.6	35.8	19.8	100.00	100.00	100.00
ELW14	GR282418	11576653	BUS13.2KV_3P_0A__AIR	Cable	0.1	600.0000		1352.8	1638.2	903.4	177.5	215.0	118.5	29.6	35.8	19.8	100.00	100.00	100.00
ELW14	GR282419	11577487	13.2KV_3P_500_CU_TRXLPE	Cable	0.0	455.0000		1352.8	1638.2	903.4	177.5	215.0	118.5	39.0	47.2	26.1	100.00	100.00	100.00
ELW14	GR282420	13177926	13.2KV_3P_500_CU_XLPE	Cable	70.6	455.0000		671.6	814.1	450.2	88.1	106.8	59.1	19.4	23.5	13.0	99.98	99.98	99.99
ELW14	GR282421	6182139	13.2KV_3P_500_CU_XLPE	Cable	36.5	455.0000		671.5	813.9	450.2	88.1	106.8	59.1	19.4	23.5	13.0	99.97	99.96	99.98
ELW14	GR282422	11369979	13.2KV_3P_500_CU_XLPE	Cable	51.1	455.0000		671.4	813.8	450.2	88.1	106.8	59.1	19.4	23.5	13.0	99.96	99.95	99.97
ELW14	GR282423	11369977	13.2KV_3P_500_CU_XLPE	Cable	123.0	455.0000		671.4	813.6	450.1	88.1	106.8	59.1	19.4	23.5	13.0	99.93	99.90	99.95
ELW14	GR282424	6180593	13.2KV_3P_500_CU_XLPE	Cable	113.3	455.0000		671.2	813.3	450.0	88.1	106.8	59.1	19.4	23.5	13.0	99.90	99.86	99.93
ELW14	GR282425	6182285	13.2KV_3P_500_CU_XLPE	Cable	125.8	455.0000		671.0	812.9	449.9	88.1	106.8	59.1	19.4	23.5	13.0	99.87	99.82	99.91
ELW14	GR282426	6042516	13.2KV_3P_500_CU_XLPE	Cable	84.4	455.0000		670.8	812.6	449.8	88.1	106.8	59.1	19.4	23.5	13.0	99.85	99.79	99.89
ELW14	GR282510	6179886	13.2KV_3P_1/0_CU_XLPE	Cable	41.0	220.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.86	100.17
ELW14	GR282511	6181604	13.2KV_3P_500_CU_XLPE	Cable	7.0	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.86	100.17
ELW14	GR282512	6129563	13.2KV_3P_500_CU_PILC	Cable	1.3	425.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.86	100.17
ELW14	GR282513	6129564	13.2KV_3P_500_CU_PILC	Cable	1.0	425.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.86	100.17
ELW14	GR282514	6041023	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.86	100.17
ELW14	GR282569	17977700	13.2KV_3P_500_CU_EPR	Cable	123.1	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282570	18010596	13.2KV_3P_500_CU_EPR	Cable	96.2	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282571	18010684	13.2KV_3P_500_CU_EPR	Cable	115.8	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282572	18010725	13.2KV_3P_500_CU_EPR	Cable	136.2	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282573	18010343	13.2KV_3P_500_CU_EPR	Cable	117.0	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282574	16382509	13.2KV_3P_500_CU_XLPE	Cable	0.0	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282578	6044023	13.2KV_3P_500_CU_XLPE	Cable	10.1	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282579	6182668	13.2KV_3P_500_CU_XLPE	Cable	2.8	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282580	18030779	13.2KV_3P_500_CU_XLPE	Cable	0.0	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282581	18030775	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282583	6042737	13.2KV_3P_500_CU_XLPE	Cable	8.4	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.10	98.85	100.16
ELW14	GR282584	6043169	13.2KV_3P_500_CU_XLPE	Cable	3.8	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.10	98.85	100.16
ELW14	GR282585	6176966	13.2KV_3P_500_CU_XLPE	Cable	1.5	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.10	98.85	100.16
ELW14	GR282586	6176967	13.2KV_3P_500_CU_XLPE	Cable	0.8	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.10	98.85	100.16
ELW14	GR282587	6039739	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.10	98.85	100.16
ELW14	GR282589	6180575	13.2KV_3P_500_CU_XLPE	Cable	95.1	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282590	6180923	13.2KV_3P_500_CU_XLPE	Cable	1.0	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282591	6181847	13.2KV_3P_500_CU_XLPE	Cable	1.0	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282592	6083191	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282605	6042708	13.2KV_3P_500_CU_XLPE	Cable	75.1	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282606	15596853	13.2KV_3P_500_CU_XLPE	Cable	26.4	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282607	6041858	13.2KV_3P_500_CU_XLPE	Cable	1.3	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282608	6040459	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282610	6182227	13.2KV_3P_500_CU_XLPE	Cable	0.9	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.87	100.17
ELW14	GR282611	15597944	13.2KV_3P_500_CU_XLPE	Cable	5.3	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.87	100.17
ELW14	GR282612	6131563	13.2KV_3P_500_CU_PILC	Cable	1.3	425.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.87	100.17
ELW14	GR282613	6038219	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.87	100.17
ELW14	GR282616	16455756	13.2KV_3P_500_CU_PILC	Cable	34.1	425.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.87	100.18
ELW14	GR282617	15597375	13.2KV_3P_500_CU_PILC	Cable	23.9	425.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.87	100.18
ELW14	GR282618	6131496	13.2KV_3P_500_CU_PILC	Cable	1.3	425.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.87	100.18
ELW14	GR282619	6040122	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.87	100.18
ELW14	GR282622	6128780	13.2KV_3P_500_CU_XLPE	Cable	53.0	455.0000		388.5	704.9	33.7	52.0	93.5	4.4	11.4	20.6	1.0	98.06	98.86	100.18
ELW14	GR282623	6126319	13.2KV_3P_500_CU_XLPE	Cable	4.2	455.0000		388.5	704.7	33.7	52.0	93.5	4.4	11.4	20.6	1.0	98.05	98.85	100.18
ELW14	GR282624	6126303	13.2KV_3P_500_CU_PILC	Cable	1.5	425.0000		388.5	704.7	33.7	52.0	93.5	4.4	12.2	22.0	1.0	98.06	98.85	100.18
ELW14	GR282625	6131713	13.2KV_3P_500_CU_PILC	Cable	0.8	425.0000		388.5	704.7	33.7	52.0	93.5	4.4	12.2	22.0	1.0	98.06	98.85	100.18
ELW14	GR282626	6039636	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		388.5	704.7	33.7	52.0	93.5	4.4	8.7	15.6	0.7	98.06	98.85	100.18
ELW14	GR282627	6040506	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		388.5	704.7	33.7	52.0	93.5	4.4	8.7	15.6	0.7	98.06	98.85	100.18
ELW14	GR282628	6039637	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.06	98.85	100.18
ELW14	GR282629	6039881	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		388.5	704.7	33.7	52.0	93.5	4.4	8.7	15.6	0.7	98.06	98.85	100.18
ELW14	GR282630	6039882	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		388.5	704.7	33.7	52.0	93.5	4.4	8.7	15.6	0.7	98.06	98.85	100.18
ELW14	GR282631	6040052	BUS13.2KV_1P_600A_CU_AIR	Cable	0.1	600.0000			704.7			93.5			15.6			98.85	
ELW14	GR282632	6040056	BUS13.2KV_1P_600A_CU_AIR	Cable	0.1	600.0000			704.7			93.5			15.6			98.85	
ELW14	GR282633	6130847	13.2KV_1P_1/0_CU_PILC	Cable	0.8	210.0000			704.7			93.5			44.5			98.85	
ELW14	GR282634	6126305	13.2KV_1P_1/0_CU_PILC	Cable	1.5	210.0000			704.7			93.5			44.5			98.85	
ELW14	GR282635	6128169	13.2KV_1P_1/0_CU_XLPE	Cable	2.1	220.0000			704.7			93.5			42.5			98.85	
ELW14	GR282636	6127967	13.2KV_1P_1/0_CU_XLPE	Cable	40.7	220.0000			704.7			93.5			42.5			98.81	
ELW14	GR282639	6129765	13.2KV_1P_1/0_CU_PILC	Cable	195.7	210.0000			655.6			87.1			41.5			98.58	
ELW14	GR282644	6043762	13.2KV_1P_1/0_CU_PILC	Cable	12.8	210.0000			605.3			80.6			38.4			98.57	
ELW14	GR282649	6129766	13.2KV_1P_1/0_CU_PILC	Cable	42.0	210.0000			556.4			74.1			35.3			98.53	
ELW14	GR282654	6178799	13.2KV_1P_1/0_CU_PILC	Cable	172.5	210.0000			523.6			69.7			33.2			98.37	
ELW14	GR282659	6130771	13.2KV_1P_1/0_CU_PILC	Cable	43.5	210.0000			490.2			65.4			31.1			98.33	
ELW14	GR282660	6132713	13.2KV_1P_1/0_CU_PILC	Cable	132.1	210.0000			490.1			65.4			31.1			98.22	
ELW14	GR282665	6132712	13.2KV_1P_1/0_CU_PILC	Cable	68.5	210.0000			440.7			58.9			28.0			98.16	
ELW14	GR282670	6130439	13.2KV_1P_1/0_CU_PILC	Cable	91.5	210.0000			391.6			52.3			24.9			98.10	
ELW14	GR282673	6130438	13.2KV_1P_1/0_CU_PILC	Cable	55.5	210.0000			342.6			45.8			21.8			98.07	
ELW14	GR282678	6130437	13.2KV_1P_1/0_CU_PILC	Cable	138.1	210.0000			293.7			39.3			18.7			97.99	
ELW14	GR282681	6128151	13.2KV_1P_1/0_CU_XLPE	Cable	139.2	220.0000			244.6			32.8			14.9			97.95	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
ELW14	GR282686	6128963	13.2KV_1P_1/0_CU_XLPE	Cable	200.3	220.0000			195.7			26.2			11.9			97.90	
ELW14	GR282687	6127332	13.2KV_1P_1/0_CU_XLPE	Cable	3.0	220.0000			195.6			26.2			11.9			97.90	
ELW14	GR282688	6127334	13.2KV_1P_1/0_CU_XLPE	Cable	4.0	220.0000			195.6			26.2			11.9			97.90	
ELW14	GR282689	6127539	13.2KV_1P_1/0_CU_XLPE	Cable	181.6	220.0000			195.6			26.2			11.9			97.85	
ELW14	GR282690	6128633	13.2KV_1P_1/0_CU_PILC	Cable	146.6	210.0000			195.5			26.2			12.5			97.80	
ELW14	GR282693	6128627	13.2KV_1P_1/0_CU_PILC	Cable	42.1	210.0000			162.8			21.8			10.4			97.79	
ELW14	GR282696	6128626	13.2KV_1P_1/0_CU_PILC	Cable	71.1	210.0000			130.3			17.5			8.3			97.77	
ELW14	GR282699	6042139	13.2KV_1P_1/0_CU_PILC	Cable	79.6	210.0000			97.7			13.1			6.2			97.76	
ELW14	GR282700	6043208	13.2KV_1P_1/0_CU_PILC	Cable	209.5	210.0000			97.7			13.1			6.2			97.72	
ELW14	GR282705	6127502	13.2KV_1P_1/0_CU_PILC	Cable	70.4	210.0000			48.8			6.6			3.1			97.72	
ELW14	GR282722	6040053	BUS13.2KV_1P_600A_CU_AIR	Cable	0.1	600.0000				33.7			4.4			0.7			100.18
ELW14	GR282723	6040059	BUS13.2KV_1P_600A_CU_AIR	Cable	0.1	600.0000				33.7			4.4			0.7			100.18
ELW14	GR282724	6130848	13.2KV_1P_1/0_CU_PILC	Cable	0.8	210.0000				33.7			4.4			2.1			100.18
ELW14	GR282725	6126306	13.2KV_1P_1/0_CU_PILC	Cable	1.5	210.0000				33.7			4.4			2.1			100.18
ELW14	GR282726	6128170	13.2KV_1P_1/0_CU_XLPE	Cable	3.5	220.0000				33.7			4.4			2.0			100.18
ELW14	GR282727	6127127	13.2KV_1P_1/0_CU_XLPE	Cable	181.6	220.0000				33.7			4.4			2.0			100.17
ELW14	GR282728	6128835	13.2KV_1P_1/0_CU_PILC	Cable	50.0	210.0000				33.6			4.4			2.1			100.17
ELW14	GR282733	6083214	BUS13.2KV_1P_600A_CU_AIR	Cable	0.1	600.0000		388.5			52.0			8.7			98.06		
ELW14	GR282734	6040054	BUS13.2KV_1P_600A_CU_AIR	Cable	0.1	600.0000		388.5			52.0			8.7			98.06		
ELW14	GR282735	6130039	13.2KV_1P_1/0_CU_PILC	Cable	0.8	210.0000		388.5			52.0			24.8			98.05		
ELW14	GR282736	6126304	13.2KV_1P_1/0_CU_PILC	Cable	1.5	210.0000		388.5			52.0			24.8			98.05		
ELW14	GR282737	6128168	13.2KV_1P_1/0_CU_XLPE	Cable	12.8	220.0000		388.5			52.0			23.6			98.05		
ELW14	GR282738	11330679	13.2KV_1P_1/0_CU_XLPE	Cable	132.4	220.0000		388.5			52.0			23.6			97.98		
ELW14	GR282743	11330675	13.2KV_1P_1/0_CU_XLPE	Cable	107.4	220.0000		354.5			47.5			21.6			97.93		
ELW14	GR282748	11330673	13.2KV_1P_1/0_CU_XLPE	Cable	234.5	220.0000		320.6			43.0			19.5			97.83		
ELW14	GR282753	11330631	13.2KV_1P_1/0_CU_XLPE	Cable	101.0	220.0000		286.6			38.4			17.5			97.79		
ELW14	GR282758	11330630	13.2KV_1P_1/0_CU_XLPE	Cable	94.2	220.0000		252.8			33.9			15.4			97.76		
ELW14	GR282763	11330629	13.2KV_1P_1/0_CU_XLPE	Cable	89.0	220.0000		219.0			29.4			13.4			97.73		
ELW14	GR282768	11330627	13.2KV_1P_1/0_CU_XLPE	Cable	103.8	220.0000		168.5			22.6			10.3			97.71		
ELW14	GR282773	11330624	13.2KV_1P_1/0_CU_XLPE	Cable	16.2	220.0000		134.8			18.1			8.2			97.70		
ELW14	GR282778	11330623	13.2KV_1P_1/0_CU_XLPE	Cable	101.2	220.0000		101.1			13.6			6.2			97.69		
ELW14	GR282783	11330618	13.2KV_1P_1/0_CU_XLPE	Cable	73.3	220.0000		67.4			9.1			4.1			97.68		
ELW14	GR282788	11330614	13.2KV_1P_1/0_CU_XLPE	Cable	53.5	220.0000		33.7			4.5			2.1			97.68		
ELW14	GR282789	11330613	13.2KV_1P_1/0_CU_XLPE	Cable	35.6	220.0000		33.7			4.5			2.1			97.68		
ELW14	GR282790	6084639	13.2KV_1P_1/0_CU_PILC	Cable	70.5	210.0000		33.7			4.5			2.2			97.68		
ELW14	GR282795	6039883	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.06	98.85	100.18
ELW14	GR282796	6040057	BUS13.2KV_1P_600A_CU_AIR	Cable	0.1	600.0000			0.0			0.0			0.0			98.85	
ELW14	GR282797	6040060	BUS13.2KV_1P_600A_CU_AIR	Cable	0.1	600.0000				0.0			0.0			0.0			100.18
ELW14	GR282798	6083857	BUS13.2KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			98.06		
ELW14	GR282800	6131818	13.2KV_3P_500_CU_XLPE	Cable	24.0	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.39	98.99	100.00
ELW14	GR282801	15596346	13.2KV_3P_500_CU_XLPE	Cable	1.5	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.39	98.99	100.00
ELW14	GR282802	6132620	13.2KV_3P_500_CU_PILC	Cable	1.3	425.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.39	98.99	100.00
ELW14	GR282803	6038201	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.39	98.99	100.00
ELW14	GR282805	6177102	13.2KV_3P_500_CU_XLPE	Cable	15.3	455.0000		321.8	310.0	217.1	42.9	41.1	28.5	9.4	9.0	6.3	98.43	99.00	99.98
ELW14	GR282806	6132256	13.2KV_3P_500_CU_XLPE	Cable	160.7	455.0000		321.8	310.0	217.1	42.9	41.1	28.5	9.4	9.0	6.3	98.41	98.98	99.96
ELW14	GR282807	6176518	13.2KV_3P_500_CU_XLPE	Cable	125.5	455.0000		321.7	309.9	217.0	42.9	41.1	28.5	9.4	9.0	6.3	98.40	98.97	99.96
ELW14	GR282808	18103125	13.2KV_3P_500_CU_XLPE	Cable	43.4	455.0000		321.7	309.9	217.0	42.9	41.1	28.5	9.4	9.0	6.3	98.39	98.96	99.95
ELW14	GR282809	6176520	13.2KV_3P_500_CU_XLPE	Cable	16.7	455.0000		321.6	309.9	217.0	42.9	41.1	28.5	9.4	9.0	6.3	98.39	98.96	99.95
ELW14	GR282815	6129572	13.2KV_3P_500_CU_XLPE	Cable	42.6	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.35	98.95	99.95
ELW14	GR282816	6181010	13.2KV_3P_500_CU_PILC	Cable	1.3	425.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.35	98.95	99.95
ELW14	GR282817	6039568	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.35	98.95	99.95
ELW14	GR282822	11606519	13.2KV_3P_1/0_CU_XLPE	Cable	11.5	220.0000		321.5	309.8	217.0	42.9	41.1	28.5	19.5	18.7	12.9	98.31	98.93	99.95
ELW14	GR282823	11606528	13.2KV_3P_1/0_CU_XLPE	Cable	19.7	220.0000		321.4	309.8	217.0	42.9	41.1	28.5	19.5	18.7	12.9	98.31	98.92	99.95
ELW14	GR282824	15580308	13.2KV_3P_1/0_CU_XLPE	Cable	11.6	220.0000		321.4	309.8	217.0	42.9	41.1	28.5	19.5	18.7	12.9	98.30	98.92	99.95
ELW14	GR282825	15580347	13.2KV_3P_1/0_CU_XLPE	Cable	0.0	220.0000		321.4	309.8	217.0	42.9	41.1	28.5	19.5	18.7	12.9	98.30	98.92	99.95
ELW14	GR282826	15580331	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		321.4	309.8	217.0	42.9	41.1	28.5	7.2	6.8	4.7	98.30	98.92	99.95
ELW14	GR282827	15580332	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		321.4	309.8	217.0	42.9	41.1	28.5	7.2	6.8	4.7	98.30	98.92	99.95
ELW14	GR282828	15580333	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.30	98.92	99.95
ELW14	GR282829	15580337	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.30	98.92	99.95
ELW14	GR282830	15580348	13.2KV_3P_1/0_CU_XLPE	Cable	0.0	220.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.30	98.92	99.95
ELW14	GR282831	15580305	13.2KV_3P_1/0_CU_XLPE	Cable	10.3	220.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.30	98.92	99.95
ELW14	GR282832	15580307	13.2KV_3P_1/0_CU_XLPE	Cable	97.6	220.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.30	98.92	99.95
ELW14	GR282833	15525053	13.2KV_3P_1/0_CU_XLPE	Cable	0.0	220.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.30	98.92	99.95
ELW14	GR282834	11607541	13.2KV_3P_1/0_CU_XLPE	Cable	0.0	220.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.30	98.92	99.95
ELW14	GR282835	15580334	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		321.4	309.8	217.0	42.9	41.1	28.5	7.2	6.8	4.7	98.30	98.92	99.95
ELW14	GR282836	15580335	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.30	98.92	99.95
ELW14	GR282837	15580338	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.30	98.92	99.95
ELW14	GR282838	15580336	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		321.4	309.8	217.0	42.9	41.1	28.5	7.2	6.8	4.7	98.30	98.92	99.95
ELW14	GR282839	15580339	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		321.4	309.8	217.0	42.9	41.1	28.5	7.2	6.8	4.7	98.30	98.92	99.95
ELW14	GR282840	15580349	13.2KV_3P_1/0_CU_XLPE	Cable	0.0	220.0000		321.4	309.8	217.0	42.9	41.1	28.5	19.5	18.7	12.9	98.30	98.92	99.95
ELW14	GR282841	15580300	13.2KV_3P_1/0_CU_XLPE	Cable	119.4	220.0000		321.4	309.8	217.0	42.9	41.1	28.5	19.5	18.7	12.9	98.27	98.88	99.94
ELW14	GR282854	6181768	13.2KV_3P_500_CU_XLPE	Cable	19.6	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282855	6182655	13.2KV_3P_500_CU_XLPE	Cable	36.1	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
ELW14	GR282856	6181804	13.2KV_3P_500_CU_XLPE	Cable	1.0	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282857	6181805	13.2KV_3P_500_CU_XLPE	Cable	1.0	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282858	6040460	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282861	6131330	13.2KV_3P_500_CU_XLPE	Cable	14.1	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282862	6132848	13.2KV_3P_500_CU_XLPE	Cable	32.7	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282863	6086093	13.2KV_3P_500_CU_PILC	Cable	0.8	425.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282864	6004336	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282865	6004793	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282866	6004792	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282867	6004795	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282868	6004796	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282869	6004797	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282870	6004794	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282871	6004337	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282872	6004800	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282873	6004801	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282874	6004802	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282875	6003701	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282876	6004803	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282877	6004804	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282878	6004805	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282879	6004806	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282880	6004807	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282881	6004828	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282882	6004814	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282883	6004815	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282886	6132664	13.2KV_3P_500_CU_XLPE	Cable	22.9	455.0000		622.1	615.8	643.3	82.7	81.5	84.5	18.2	17.9	18.6	98.68	99.09	99.87
ELW14	GR282887	6132663	13.2KV_3P_500_CU_XLPE	Cable	4.7	455.0000		622.1	615.8	643.2	82.7	81.5	84.5	18.2	17.9	18.6	98.68	99.09	99.87
ELW14	GR282888	6132610	13.2KV_3P_500_CU_XLPE	Cable	42.2	455.0000		622.1	615.8	643.2	82.7	81.5	84.5	18.2	17.9	18.6	98.67	99.08	99.86
ELW14	GR282889	6130168	13.2KV_3P_500_CU_XLPE	Cable	112.8	455.0000		622.0	615.7	643.2	82.7	81.5	84.5	18.2	17.9	18.6	98.64	99.05	99.83
ELW14	GR282890	6177134	13.2KV_3P_500_CU_XLPE	Cable	146.7	455.0000		621.9	615.6	643.0	82.7	81.5	84.5	18.2	17.9	18.6	98.60	99.02	99.79
ELW14	GR282891	6179017	13.2KV_3P_500_CU_XLPE	Cable	133.7	455.0000		621.6	615.3	642.7	82.7	81.5	84.5	18.2	17.9	18.6	98.57	98.98	99.75
ELW14	GR282892	6126605	13.2KV_3P_500_CU_XLPE	Cable	54.3	455.0000		621.4	615.1	642.5	82.7	81.5	84.5	18.2	17.9	18.6	98.56	98.97	99.74
ELW14	GR282893	6176507	13.2KV_3P_500_CU_XLPE	Cable	1.7	455.0000		621.3	615.0	642.4	82.7	81.5	84.5	18.2	17.9	18.6	98.55	98.97	99.74
ELW14	GR282894	6176506	13.2KV_3P_500_CU_XLPE	Cable	1.5	455.0000		621.3	615.0	642.4	82.7	81.5	84.5	18.2	17.9	18.6	98.55	98.97	99.74
ELW14	GR282895	6083990	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		621.3	615.0	642.4	82.7	81.5	84.5	13.8	13.6	14.1	98.55	98.97	99.74
ELW14	GR282896	6037848	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		621.3	615.0	642.4	82.7	81.5	84.5	13.8	13.6	14.1	98.55	98.97	99.74
ELW14	GR282897	6037847	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		234.0	225.7	249.8	31.2	29.9	32.9	5.2	5.0	5.5	98.55	98.97	99.74
ELW14	GR282898	6084186	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		234.0	225.7	249.8	31.2	29.9	32.9	5.2	5.0	5.5	98.55	98.97	99.74
ELW14	GR282899	6176505	13.2KV_3P_500_CU_XLPE	Cable	1.5	455.0000		234.0	225.7	249.8	31.2	29.9	32.9	6.8	6.6	7.2	98.55	98.97	99.74
ELW14	GR282900	6180403	13.2KV_3P_500_CU_XLPE	Cable	1.7	455.0000		234.0	225.7	249.8	31.2	29.9	32.9	6.8	6.6	7.2	98.55	98.97	99.74
ELW14	GR282901	6179516	13.2KV_3P_500_CU_XLPE	Cable	53.3	455.0000		234.0	225.7	249.8	31.2	29.9	32.9	6.8	6.6	7.2	98.55	98.96	99.73
ELW14	GR282902	6176490	13.2KV_3P_500_CU_XLPE	Cable	99.5	455.0000		234.0	225.7	249.8	31.2	29.9	32.9	6.8	6.6	7.2	98.54	98.96	99.72
ELW14	GR282903	6176495	13.2KV_3P_500_CU_XLPE	Cable	12.2	455.0000		234.0	225.6	249.8	31.2	29.9	32.9	6.8	6.6	7.2	98.54	98.95	99.72
ELW14	GR282904	6178305	13.2KV_3P_500_CU_XLPE	Cable	158.6	455.0000		234.0	225.6	249.8	31.2	29.9	32.9	6.8	6.6	7.2	98.52	98.94	99.70
ELW14	GR282905	11420050	13.2KV_3P_500_CU_PILC	Cable	42.7	425.0000		233.9	225.6	249.7	31.2	29.9	32.9	7.3	7.0	7.7	98.52	98.94	99.70
ELW14	GR282906	11420477	13.2KV_3P_500_CU_PILC	Cable	0.0	425.0000		233.9	225.6	249.7	31.2	29.9	32.9	7.3	7.0	7.7	98.52	98.94	99.70
ELW14	GR282907	11421092	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		233.9	225.6	249.7	31.2	29.9	32.9	5.2	5.0	5.5	98.52	98.94	99.70
ELW14	GR282908	11420384	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		233.9	225.6	249.7	31.2	29.9	32.9	5.2	5.0	5.5	98.52	98.94	99.70
ELW14	GR282909	11420381	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		112.8	108.3	149.4	15.0	14.4	19.7	2.5	2.4	3.3	98.52	98.94	99.70
ELW14	GR282910	11421096	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		112.8	108.3	149.4	15.0	14.4	19.7	2.5	2.4	3.3	98.52	98.94	99.70
ELW14	GR282911	11420480	13.2KV_3P_500_CU_PILC	Cable	0.0	425.0000		112.8	108.3	149.4	15.0	14.4	19.7	3.5	3.4	4.6	98.52	98.94	99.70
ELW14	GR282912	11420268	13.2KV_3P_500_CU_PILC	Cable	42.6	425.0000		112.8	108.3	149.4	15.0	14.4	19.7	3.5	3.4	4.6	98.52	98.94	99.70
ELW14	GR282913	6131772	13.2KV_3P_500_CU_XLPE	Cable	52.8	455.0000		112.8	108.3	149.3	15.0	14.4	19.7	3.3	3.2	4.3	98.52	98.94	99.69
ELW14	GR282914	6043939	13.2KV_3P_500_CU_XLPE	Cable	1.0	455.0000		112.8	108.3	149.3	15.0	14.4	19.7	3.3	3.2	4.3	98.52	98.94	99.69
ELW14	GR282915	6040884	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		112.8	108.3	149.3	15.0	14.4	19.7	2.5	2.4	3.3	98.52	98.94	99.69
ELW14	GR282916	6040883	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		112.8	108.3	149.3	15.0	14.4	19.7	2.5	2.4	3.3	98.52	98.94	99.69
ELW14	GR282917	6040885	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		112.8	108.3	149.3	15.0	14.4	19.7	2.5	2.4	3.3	98.52	98.94	99.69
ELW14	GR282918	6040886	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		112.8	108.3	149.3	15.0	14.4	19.7	2.5	2.4	3.3	98.52	98.94	99.69
ELW14	GR282919	6040887	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		112.8	108.3	149.3	15.0	14.4	19.7	2.5	2.4	3.3	98.52	98.94	99.69
ELW14	GR282922	6083987	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.69
ELW14	GR282923	6083321	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.69
ELW14	GR282924	6132827	13.2KV_3P_500_CU_XLPE	Cable	1.0	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.69
ELW14	GR282925	6131773	13.2KV_3P_500_CU_XLPE	Cable	53.3	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.69
ELW14	GR282926	6179079	13.2KV_3P_500_CU_XLPE	Cable	159.5	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.69
ELW14	GR282927	6176496	13.2KV_3P_500_CU_XLPE	Cable	10.5	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.69
ELW14	GR282928	6176491	13.2KV_3P_500_CU_XLPE	Cable	101.1	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.69
ELW14	GR282929	6179018	13.2KV_3P_500_CU_XLPE	Cable	133.7	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.69
ELW14	GR282930	6179013	13.2KV_3P_500_CU_XLPE	Cable	146.7	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.69
ELW14	GR282931	6132196	13.2KV_3P_500_CU_XLPE	Cable	111.8	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.69
ELW14	GR282932	6132611	13.2KV_3P_500_CU_XLPE	Cable	4.9	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.69
ELW14	GR282933	6086941	13.2KV_3P_500_CU_PILC	Cable	0.8	425.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.69
ELW14	GR282934	6003435	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.69

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
ELW14	GR282935	11420385	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		122.3	119.6	101.3	16.3	15.9	13.3	2.7	2.6	2.2	98.52	98.94	99.70
ELW14	GR282936	11420382	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.70
ELW14	GR282937	11421100	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.52	98.94	99.70
ELW14	GR282938	11421091	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		122.3	119.6	101.3	16.3	15.9	13.3	2.7	2.6	2.2	98.52	98.94	99.70
ELW14	GR282939	11421112	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		122.3	119.6	101.3	16.3	15.9	13.3	2.7	2.6	2.2	98.52	98.94	99.70
ELW14	GR282940	11420482	13.2KV_3P_1/0_CU_XLPE	Cable	0.0	220.0000		122.3	119.6	101.3	16.3	15.9	13.3	7.4	7.2	6.1	98.52	98.94	99.70
ELW14	GR282941	11419939	13.2KV_3P_1/0_CU_XLPE	Cable	52.6	220.0000		122.3	119.6	101.3	16.3	15.9	13.3	7.4	7.2	6.1	98.51	98.93	99.70
ELW14	GR282946	6037849	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		388.0	389.7	392.7	51.7	51.7	51.7	8.6	8.6	8.6	98.55	98.97	99.74
ELW14	GR282947	6037850	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		388.0	389.7	392.7	51.7	51.7	51.7	8.6	8.6	8.6	98.55	98.97	99.74
ELW14	GR282948	6037851	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		388.0	389.7	392.7	51.7	51.7	51.7	8.6	8.6	8.6	98.55	98.97	99.74
ELW14	GR282949	6037852	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		388.0	389.7	392.7	51.7	51.7	51.7	8.6	8.6	8.6	98.55	98.97	99.74
ELW14	GR282950	6037853	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		388.0	389.7	392.7	51.7	51.7	51.7	8.6	8.6	8.6	98.55	98.97	99.74
ELW14	GR282953	6037854	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.55	98.97	99.74
ELW14	GR282954	6037855	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.55	98.97	99.74
ELW14	GR282956	6132665	13.2KV_3P_500_CU_XLPE	Cable	56.1	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.72	99.12	99.88
ELW14	GR282957	6043307	13.2KV_3P_500_CU_XLPE	Cable	146.9	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.72	99.12	99.88
ELW14	GR282958	6127647	13.2KV_3P_500_CU_XLPE	Cable	6.3	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.72	99.12	99.88
ELW14	GR282959	6130940	13.2KV_3P_500_CU_PILC	Cable	1.5	425.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.72	99.12	99.88
ELW14	GR282960	6131241	13.2KV_3P_500_CU_PILC	Cable	0.8	425.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.72	99.12	99.88
ELW14	GR282961	6040507	BUS13.2KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.72	99.12	99.88
ELW14	GR282963	6181919	13.2KV_3P_500_CU_XLPE	Cable	14.5	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.29	99.46	99.89
ELW14	GR282967	13177927	13.2KV_3P_500_CU_XLPE	Cable	70.6	455.0000		681.2	824.1	453.1	89.4	108.1	59.5	19.6	23.8	13.1	99.98	99.98	99.99
ELW14	GR282968	6182144	13.2KV_3P_500_CU_XLPE	Cable	35.7	455.0000		681.0	823.9	453.1	89.4	108.1	59.5	19.6	23.8	13.1	99.97	99.96	99.98
ELW14	GR282969	11370166	13.2KV_3P_500_CU_XLPE	Cable	53.5	455.0000		681.0	823.8	453.0	89.4	108.1	59.5	19.6	23.8	13.1	99.96	99.94	99.97
ELW14	GR282970	13465705	13.2KV_3P_500_CU_XLPE	Cable	5.8	455.0000		680.9	823.6	453.0	89.4	108.1	59.5	19.6	23.8	13.1	99.96	99.94	99.97
ELW14	GR282971	11369905	13.2KV_3P_500_CU_XLPE	Cable	122.5	455.0000		680.9	823.6	453.0	89.4	108.1	59.5	19.6	23.8	13.1	99.93	99.90	99.95
ELW14	GR282972	6180429	13.2KV_3P_500_CU_XLPE	Cable	113.5	455.0000		680.7	823.3	452.9	89.4	108.1	59.5	19.6	23.8	13.1	99.90	99.86	99.93
ELW14	GR282973	6182282	13.2KV_3P_500_CU_XLPE	Cable	127.0	455.0000		680.5	822.9	452.8	89.4	108.1	59.5	19.6	23.8	13.1	99.87	99.82	99.91
ELW14	GR282974	6042513	13.2KV_3P_500_CU_XLPE	Cable	81.6	455.0000		680.3	822.6	452.7	89.4	108.1	59.5	19.6	23.8	13.1	99.85	99.79	99.89
ELW14	GR282975	11576658	BUS13.2KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	100.00	100.00
ELW14	GR282427	6180133	13.2KV_3P_Y477_AL	Overhead Line	4.8	670.0000		670.6	812.4	449.8	88.1	106.8	59.1	13.2	15.9	8.8	99.85	99.79	99.89
ELW14	GR282428	6042270	13.2KV_3P_Y477_AL	Overhead Line	3.4	670.0000		680.1	822.4	452.6	89.4	108.1	59.5	13.3	16.1	8.9	99.85	99.79	99.89
ELW14	GR282429	6042271	13.2KV_3P_Y477_AL	Overhead Line	8.0	670.0000		1350.7	1634.7	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.84	99.78	99.89
ELW14	GR282430	6042044	13.2KV_3P_Y477_AL	Overhead Line	3.0	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.84	99.78	99.89
ELW14	GR282431	6042045	13.2KV_3P_Y477_AL	Overhead Line	2.6	670.0000		1350.6	1634.6	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.84	99.78	99.89
ELW14	GR282432	6042043	13.2KV_3P_Y477_AL	Overhead Line	40.0	670.0000		1350.6	1634.6	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.80	99.76	99.89
ELW14	GR282433	6179482	13.2KV_3P_Y477_AL	Overhead Line	48.5	670.0000		1350.1	1634.2	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.75	99.73	99.89
ELW14	GR282434	6179479	13.2KV_3P_Y477_AL	Overhead Line	48.1	670.0000		1349.4	1633.7	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.70	99.70	99.89
ELW14	GR282435	6179477	13.2KV_3P_Y477_AL	Overhead Line	31.3	670.0000		1348.8	1633.3	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.67	99.68	99.89
ELW14	GR282436	6178002	13.2KV_3P_Y477_AL	Overhead Line	38.6	670.0000		1348.3	1633.0	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.63	99.66	99.89
ELW14	GR282437	6177999	13.2KV_3P_Y477_AL	Overhead Line	40.8	670.0000		1347.8	1632.6	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.59	99.63	99.89
ELW14	GR282438	6177996	13.2KV_3P_Y477_AL	Overhead Line	57.3	670.0000		1347.3	1632.2	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.53	99.60	99.89
ELW14	GR282439	6177993	13.2KV_3P_Y477_AL	Overhead Line	32.8	670.0000		1346.5	1631.6	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.50	99.58	99.89
ELW14	GR282440	6177831	13.2KV_3P_Y477_AL	Overhead Line	56.4	670.0000		1346.1	1631.3	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.44	99.55	99.89
ELW14	GR282441	6181050	13.2KV_3P_Y477_AL	Overhead Line	45.1	670.0000		1345.3	1630.8	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.40	99.52	99.89
ELW14	GR282442	6181047	13.2KV_3P_Y477_AL	Overhead Line	50.9	670.0000		1344.7	1630.3	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.35	99.49	99.89
ELW14	GR282443	6181309	13.2KV_3P_Y477_AL	Overhead Line	39.2	670.0000		1344.0	1629.8	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.31	99.47	99.89
ELW14	GR282444	6181307	13.2KV_3P_Y477_AL	Overhead Line	18.0	670.0000		1343.5	1629.5	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.29	99.46	99.89
ELW14	GR282445	6181305	13.2KV_3P_Y477_AL	Overhead Line	36.5	670.0000		1343.2	1629.3	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.25	99.43	99.88
ELW14	GR282446	6181303	13.2KV_3P_Y477_AL	Overhead Line	35.7	670.0000		1342.7	1628.9	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.22	99.41	99.88
ELW14	GR282447	6181301	13.2KV_3P_Y477_AL	Overhead Line	37.6	670.0000		1342.3	1628.6	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.18	99.39	99.88
ELW14	GR282448	6181299	13.2KV_3P_Y477_AL	Overhead Line	30.5	670.0000		1341.8	1628.2	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.15	99.37	99.88
ELW14	GR282449	6181297	13.2KV_3P_Y477_AL	Overhead Line	31.2	670.0000		1341.3	1627.9	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.12	99.35	99.88
ELW14	GR282450	6181295	13.2KV_3P_Y477_AL	Overhead Line	41.8	670.0000		1340.9	1627.6	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.08	99.33	99.88
ELW14	GR282451	6180874	13.2KV_3P_Y477_AL	Overhead Line	48.0	670.0000		1340.4	1627.2	902.4	177.5	215.0	118.5	26.5	32.1	17.7	99.03	99.30	99.88
ELW14	GR282452	6042979	13.2KV_3P_Y477_AL	Overhead Line	45.2	670.0000		1339.7	1626.8	902.4	177.5	215.0	118.5	26.5	32.1	17.7	98.98	99.27	99.88
ELW14	GR282453	6179342	13.2KV_3P_Y477_AL	Overhead Line	41.2	670.0000		1339.1	1626.3	902.4	177.5	215.0	118.5	26.5	32.1	17.7	98.94	99.25	99.88
ELW14	GR282454	6041916	13.2KV_3P_Y477_AL	Overhead Line	53.2	670.0000		1338.6	1625.9	902.4	177.5	215.0	118.5	26.5	32.1	17.7	98.89	99.22	99.88
ELW14	GR282455	6179337	13.2KV_3P_Y477_AL	Overhead Line	49.4	670.0000		1337.8	1625.4	902.4	177.5	215.0	118.5	26.5	32.1	17.7	98.84	99.19	99.88
ELW14	GR282456	6179334	13.2KV_3P_Y477_AL	Overhead Line	40.0	670.0000		1337.2	1625.0	902.4	177.5	215.0	118.5	26.5	32.1	17.7	98.80	99.17	99.88
ELW14	GR282457	6179331	13.2KV_3P_Y477_AL	Overhead Line	44.8	670.0000		1336.6	1624.6	902.4	177.5	215.0	118.5	26.5	32.1	17.7	98.75	99.14	99.88
ELW14	GR282458	6178917	13.2KV_3P_Y477_AL	Overhead Line	32.6	670.0000		1336.0	1624.2	902.4	177.5	215.0	118.5	26.5	32.1	17.7	98.72	99.12	99.88
ELW14	GR282459	6132512	13.2KV_3P_Y477_AL	Overhead Line	30.4	670.0000		1335.6	1623.8	902.4	177.5	215.0	118.5	26.5	32.1	17.7	98.69	99.10	99.88
ELW14	GR282460	6132300	13.2KV_3P_Y477_AL	Overhead Line	47.6	670.0000		713.0	1016.4	272.6	94.8	134.6	35.8	14.1	20.1	5.3	98.65	99.09	99.89
ELW14	GR282461	6131905	13.2KV_3P_Y477_AL	Overhead Line	14.6	670.0000		712.8	1016.2	272.7	94.8	134.6	35.8	14.1	20.1	5.3	98.64	99.09	99.90
ELW14	GR282462	6132515	13.2KV_3P_Y477_AL	Overhead Line	7.8	670.0000		712.7	1016.2	272.7	94.8	134.6	35.8	14.1	20.1	5.3	98.64	99.08	99.90
ELW14	GR282463	6129993	13.2KV_3P_Y477_AL	Overhead Line	40.7	670.0000		712.7	1016.2	272.7	94.8	134.6	35.8	14.1	20.1	5.3	98.61	99.07	99.91
ELW14	GR282464	6129996	13.2KV_3P_Y477_AL	Overhead Line	50.0	670.0000		712.4	1016.1	272.7	94.8	134.6	35.8	14.1	20.1	5.3	98.57	99.06	99.93
ELW14	GR282465	6178361	13.2KV_3P_Y477_AL	Overhead Line	52.6	670.0000		712.2	1015.9	272.8	94.8	134.6	35.8	14.1	20.1	5.3	98.53	99.04	99.94
ELW14	GR282466	6178363	13.2KV_3P_Y477_AL	Overhead Line	40.1	670.0000		711.9	1015.8	272.8	94.8	134.6	35.8	14.2	20.1	5.3	98.50	99.03	99.95
ELW14	GR282467	6178365	13.2KV_3P_Y477_AL	Overhead Line	36.8	670.0000		711.7	1015.7	272.8	94.8	134.6	35.8	14.2	20.1	5.3	98.47	99.02	99.96
ELW14	GR282468	6132191	13.2KV_3P_Y477_AL	Overhead Line	16.9	670.0000		711.5	1015.6	272.9	94.8	134.6	35.8	14.2	20.1	5.3	98.46	99.02	99.97
ELW14	GR282469	6043768	13.2KV_3P_Y477_AL	Overhead Line	30.3	670.0000		711.4	1015.5	272.9	94.8	134.6	35.8	14.2	20.1	5.3	98.44	99.01	99.98

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
ELW14	GR282470	6177533	13.2KV_3P_Y477_AL	Overhead Line	42.7	670.0000		389.5	705.5	56.0	51.9	93.5	7.3	7.7	14.0	1.1	98.41	99.00	99.99
ELW14	GR282471	6177535	13.2KV_3P_Y477_AL	Overhead Line	45.4	670.0000		389.4	705.5	56.0	51.9	93.5	7.3	7.7	14.0	1.1	98.39	98.99	100.00
ELW14	GR282472	6177537	13.2KV_3P_Y477_AL	Overhead Line	30.4	670.0000		389.3	705.4	56.0	51.9	93.5	7.3	7.7	14.0	1.1	98.37	98.99	100.01
ELW14	GR282473	6177539	13.2KV_3P_Y477_AL	Overhead Line	32.4	670.0000		389.3	705.4	56.0	51.9	93.5	7.3	7.7	14.0	1.1	98.36	98.98	100.02
ELW14	GR282474	6177540	13.2KV_3P_Y477_AL	Overhead Line	30.2	670.0000		389.2	705.3	56.0	51.9	93.5	7.3	7.7	14.0	1.1	98.34	98.97	100.03
ELW14	GR282475	6177528	13.2KV_3P_Y477_AL	Overhead Line	30.3	670.0000		389.1	705.3	56.0	51.9	93.5	7.3	7.7	14.0	1.1	98.33	98.97	100.04
ELW14	GR282476	6177525	13.2KV_3P_Y477_AL	Overhead Line	33.6	670.0000		389.1	705.2	56.0	51.9	93.5	7.3	7.7	14.0	1.1	98.31	98.96	100.05
ELW14	GR282477	6177524	13.2KV_3P_Y477_AL	Overhead Line	49.6	670.0000		389.0	705.2	56.0	51.9	93.5	7.3	7.7	14.0	1.1	98.28	98.95	100.06
ELW14	GR282478	6128564	13.2KV_3P_Y477_AL	Overhead Line	50.0	670.0000		388.9	705.1	56.0	51.9	93.5	7.3	7.8	14.0	1.1	98.26	98.94	100.08
ELW14	GR282479	6128756	13.2KV_3P_Y477_AL	Overhead Line	37.6	670.0000		388.8	705.1	56.0	51.9	93.5	7.3	7.8	14.0	1.1	98.24	98.94	100.09
ELW14	GR282480	6128757	13.2KV_3P_Y477_AL	Overhead Line	34.1	670.0000		388.8	705.0	56.0	51.9	93.5	7.3	7.8	14.0	1.1	98.22	98.93	100.10
ELW14	GR282481	6043218	13.2KV_3P_Y477_AL	Overhead Line	40.7	670.0000		388.7	705.0	56.0	51.9	93.5	7.3	7.8	14.0	1.1	98.20	98.92	100.11
ELW14	GR282482	6128762	13.2KV_3P_Y477_AL	Overhead Line	37.8	670.0000		388.6	704.9	56.0	51.9	93.5	7.3	7.8	14.0	1.1	98.18	98.91	100.12
ELW14	GR282483	6128763	13.2KV_3P_Y477_AL	Overhead Line	45.3	670.0000		388.5	704.9	56.0	51.9	93.5	7.3	7.8	14.0	1.1	98.16	98.91	100.13
ELW14	GR282484	6128764	13.2KV_3P_Y477_AL	Overhead Line	39.6	670.0000		388.4	704.8	56.0	51.9	93.5	7.3	7.8	14.0	1.1	98.14	98.90	100.14
ELW14	GR282485	6128765	13.2KV_3P_Y477_AL	Overhead Line	42.4	670.0000		388.4	704.8	56.1	51.9	93.5	7.3	7.8	14.0	1.1	98.11	98.89	100.15
ELW14	GR282486	6128766	13.2KV_3P_Y477_AL	Overhead Line	41.6	670.0000		388.3	704.7	56.1	51.9	93.5	7.3	7.8	14.0	1.1	98.09	98.88	100.17
ELW14	GR282487	6128767	13.2KV_3P_Y477_AL	Overhead Line	46.5	670.0000		388.2	704.7	56.1	51.9	93.5	7.3	7.8	14.0	1.1	98.07	98.87	100.18
ELW14	GR282488	6126347	13.2KV_3P_Y477_AL	Overhead Line	35.6	670.0000		1.0	1.1	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.07	98.87	100.18
ELW14	GR282489	6131293	13.2KV_3P_Y477_AL	Overhead Line	3.8	670.0000		1.0	1.0	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.07	98.87	100.18
ELW14	GR282490	15639911	13.2KV_3P_Y477_AL	Overhead Line	26.3	670.0000		1.0	1.0	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.07	98.87	100.18
ELW14	GR282491	6131295	13.2KV_3P_Y477_AL	Overhead Line	52.6	670.0000		1.0	1.0	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.07	98.87	100.18
ELW14	GR282492	6178790	13.2KV_3P_Y477_AL	Overhead Line	55.9	670.0000		1.0	1.0	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.07	98.87	100.18
ELW14	GR282493	6178791	13.2KV_3P_Y477_AL	Overhead Line	56.7	670.0000		1.0	1.0	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.07	98.87	100.18
ELW14	GR282494	6178792	13.2KV_3P_Y477_AL	Overhead Line	55.1	670.0000		1.0	1.0	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.07	98.87	100.18
ELW14	GR282495	6178793	13.2KV_3P_Y477_AL	Overhead Line	55.4	670.0000		1.0	1.0	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.07	98.87	100.18
ELW14	GR282496	6178794	13.2KV_3P_Y477_AL	Overhead Line	55.7	670.0000		1.0	1.0	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.07	98.87	100.18
ELW14	GR282497	6178795	13.2KV_3P_Y477_AL	Overhead Line	53.3	670.0000		0.9	1.0	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.07	98.87	100.18
ELW14	GR282498	6178796	13.2KV_3P_Y477_AL	Overhead Line	40.3	670.0000		0.9	0.9	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.07	98.87	100.18
ELW14	GR282499	6178797	13.2KV_3P_Y477_AL	Overhead Line	65.8	670.0000		0.9	0.9	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.07	98.87	100.18
ELW14	GR282500	6178798	13.2KV_3P_Y477_AL	Overhead Line	49.6	670.0000		0.9	0.9	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.87	100.18
ELW14	GR282501	6043594	13.2KV_3P_Y477_AL	Overhead Line	57.0	670.0000		0.9	0.9	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.87	100.17
ELW14	GR282502	6181144	13.2KV_3P_Y477_AL	Overhead Line	59.5	670.0000		0.9	0.9	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.87	100.17
ELW14	GR282503	6181146	13.2KV_3P_Y477_AL	Overhead Line	55.5	670.0000		0.9	0.9	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.87	100.17
ELW14	GR282504	6181148	13.2KV_3P_Y477_AL	Overhead Line	57.1	670.0000		0.8	0.9	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.87	100.17
ELW14	GR282505	6181150	13.2KV_3P_Y477_AL	Overhead Line	56.8	670.0000		0.8	0.8	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.87	100.17
ELW14	GR282506	6181152	13.2KV_3P_Y477_AL	Overhead Line	55.7	670.0000		0.8	0.8	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.86	100.17
ELW14	GR282507	6182827	13.2KV_3P_Y477_AL	Overhead Line	46.6	670.0000		0.8	0.8	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.86	100.17
ELW14	GR282508	6182829	13.2KV_3P_Y477_AL	Overhead Line	53.1	670.0000		0.8	0.8	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.86	100.17
ELW14	GR282509	6182214	13.2KV_3P_Y477_AL	Overhead Line	6.3	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.86	100.17
ELW14	GR282515	6182831	13.2KV_3P_Y477_AL	Overhead Line	49.1	670.0000		0.8	0.8	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.86	100.17
ELW14	GR282516	6182833	13.2KV_3P_Y477_AL	Overhead Line	55.9	670.0000		0.8	0.8	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.86	100.17
ELW14	GR282517	6182834	13.2KV_3P_Y477_AL	Overhead Line	53.7	670.0000		0.7	0.8	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.86	100.17
ELW14	GR282518	6182809	13.2KV_3P_Y477_AL	Overhead Line	55.1	670.0000		0.7	0.7	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.86	100.17
ELW14	GR282519	6182753	13.2KV_3P_Y477_AL	Overhead Line	55.1	670.0000		0.7	0.7	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.86	100.17
ELW14	GR282520	6182915	13.2KV_3P_Y477_AL	Overhead Line	54.7	670.0000		0.7	0.7	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.08	98.86	100.17
ELW14	GR282521	6182917	13.2KV_3P_Y477_AL	Overhead Line	54.8	670.0000		0.7	0.7	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.86	100.17
ELW14	GR282522	6042548	13.2KV_3P_Y477_AL	Overhead Line	57.3	670.0000		0.7	0.7	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.86	100.17
ELW14	GR282523	6182920	13.2KV_3P_Y477_AL	Overhead Line	58.4	670.0000		0.7	0.7	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.86	100.17
ELW14	GR282524	6182922	13.2KV_3P_Y477_AL	Overhead Line	40.0	670.0000		0.7	0.7	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.86	100.17
ELW14	GR282525	6180007	13.2KV_3P_Y477_AL	Overhead Line	36.4	670.0000		0.6	0.6	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.86	100.17
ELW14	GR282526	6180009	13.2KV_3P_Y477_AL	Overhead Line	43.1	670.0000		0.5	0.5	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.86	100.17
ELW14	GR282527	6180011	13.2KV_3P_Y477_AL	Overhead Line	26.4	670.0000		0.5	0.5	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.86	100.17
ELW14	GR282528	6180013	13.2KV_3P_Y477_AL	Overhead Line	57.1	670.0000		0.5	0.5	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.86	100.17
ELW14	GR282529	6180926	13.2KV_3P_Y477_AL	Overhead Line	55.4	670.0000		0.5	0.5	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.86	100.17
ELW14	GR282530	6042748	13.2KV_3P_Y477_AL	Overhead Line	51.5	670.0000		0.5	0.5	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.86	100.17
ELW14	GR282531	6042760	13.2KV_3P_Y477_AL	Overhead Line	52.2	670.0000		0.4	0.5	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.85	100.17
ELW14	GR282532	6181544	13.2KV_3P_Y477_AL	Overhead Line	54.7	670.0000		0.4	0.4	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.85	100.17
ELW14	GR282533	6180331	13.2KV_3P_Y477_AL	Overhead Line	50.9	670.0000		0.4	0.4	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.85	100.17
ELW14	GR282534	6180333	13.2KV_3P_Y477_AL	Overhead Line	53.5	670.0000		0.4	0.4	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.85	100.17
ELW14	GR282535	6182015	13.2KV_3P_Y477_AL	Overhead Line	69.1	670.0000		0.4	0.4	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.85	100.17
ELW14	GR282536	6182017	13.2KV_3P_Y477_AL	Overhead Line	38.2	670.0000		0.4	0.4	22.4	0.1	0.1	2.9	0.0	0.0	0.4	98.09	98.85	100.16
ELW14	GR282537	6182019	13.2KV_3P_Y477_AL	Overhead Line	50.7	670.0000		0.4	0.4	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16
ELW14	GR282538	6042486	13.2KV_3P_Y477_AL	Overhead Line	51.4	670.0000		0.4	0.4	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16
ELW14	GR282539	6042485	13.2KV_3P_Y477_AL	Overhead Line	51.3	670.0000		0.3	0.3	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16
ELW14	GR282540	6042484	13.2KV_3P_Y477_AL	Overhead Line	52.2	670.0000		0.3	0.3	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16
ELW14	GR282541	6042483	13.2KV_3P_Y477_AL	Overhead Line	52.4	670.0000		0.3	0.3	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16
ELW14	GR282542	6042482	13.2KV_3P_Y477_AL	Overhead Line	51.2	670.0000		0.3	0.3	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16
ELW14	GR282543	6042481	13.2KV_3P_Y477_AL	Overhead Line	52.2	670.0000		0.3	0.3	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16
ELW14	GR282544	6042480	13.2KV_3P_Y477_AL	Overhead Line	52.1	670.0000		0.3	0.3	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16
ELW14	GR282545	6041717	13.2KV_3P_Y477_AL	Overhead Line	48.1	670.0000		0.3	0.3	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16
ELW14	GR282546	13175726	13.2KV_3P_Y477_AL	Overhead Line	4.8	670.0000		0.2	0.3	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16
ELW14	GR282547	6042734	13.2KV_3P_Y477_AL	Overhead Line	52.5	670.0000		0.2	0.2	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
ELW14	GR282548	6042735	13.2KV_3P_Y477_AL	Overhead Line	50.2	670.0000		0.2	0.2	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16
ELW14	GR282549	6182550	13.2KV_3P_Y477_AL	Overhead Line	52.4	670.0000		0.2	0.2	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16
ELW14	GR282550	6182551	13.2KV_3P_Y477_AL	Overhead Line	50.0	670.0000		0.2	0.2	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.85	100.16
ELW14	GR282551	6182552	13.2KV_3P_Y477_AL	Overhead Line	51.6	670.0000		0.2	0.2	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.84	100.16
ELW14	GR282552	6182553	13.2KV_3P_Y477_AL	Overhead Line	51.3	670.0000		0.2	0.2	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.10	98.84	100.16
ELW14	GR282553	6182554	13.2KV_3P_Y477_AL	Overhead Line	51.6	670.0000		0.2	0.2	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.11	98.84	100.16
ELW14	GR282554	6182555	13.2KV_3P_Y477_AL	Overhead Line	51.9	670.0000		0.2	0.2	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.11	98.84	100.16
ELW14	GR282555	6182556	13.2KV_3P_Y477_AL	Overhead Line	50.5	670.0000		0.1	0.1	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.11	98.84	100.16
ELW14	GR282556	6182557	13.2KV_3P_Y477_AL	Overhead Line	52.4	670.0000		0.1	0.1	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.11	98.84	100.16
ELW14	GR282557	6041301	13.2KV_3P_Y477_AL	Overhead Line	5.8	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282558	6182504	13.2KV_3P_Y477_AL	Overhead Line	45.5	670.0000		0.1	0.1	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.11	98.84	100.16
ELW14	GR282559	16359505	13.2KV_3P_Y556_AL	Overhead Line	39.5	670.0000		0.1	0.1	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.11	98.84	100.16
ELW14	GR282560	16459228	13.2KV_3P_Y556_AL	Overhead Line	21.8	670.0000		0.1	0.1	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.11	98.84	100.16
ELW14	GR282561	16459230	13.2KV_3P_Y556_AL	Overhead Line	31.8	670.0000		0.1	0.1	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.11	98.84	100.16
ELW14	GR282562	16459232	13.2KV_3P_Y556_AL	Overhead Line	50.9	670.0000		0.1	0.1	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.11	98.84	100.16
ELW14	GR282563	16459234	13.2KV_3P_Y556_AL	Overhead Line	49.9	670.0000		0.1	0.1	22.4	0.0	0.0	2.9	0.0	0.0	0.4	98.11	98.84	100.16
ELW14	GR282564	16459236	13.2KV_3P_Y556_AL	Overhead Line	49.7	670.0000		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282565	16459184	13.2KV_3P_Y556_AL	Overhead Line	42.5	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282566	18014987	13.2KV_3P_Y556_AL	Overhead Line	5.0	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282567	16405108	13.2KV_3P_Y556_AL	Overhead Line	52.2	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282568	16405102	13.2KV_3P_Y556_AL	Overhead Line	44.2	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282577	6041829	13.2KV_3P_Y477_AL	Overhead Line	6.9	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.84	100.16
ELW14	GR282582	6181382	13.2KV_3P_Y477_AL	Overhead Line	8.3	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.10	98.85	100.16
ELW14	GR282588	6044168	13.2KV_3P_Y477_AL	Overhead Line	4.9	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282593	6180737	13.2KV_3P_Y477_AL	Overhead Line	44.9	670.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282594	6180738	13.2KV_3P_Y477_AL	Overhead Line	44.3	670.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282595	6180739	13.2KV_3P_Y477_AL	Overhead Line	42.4	670.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282596	6180740	13.2KV_3P_Y477_AL	Overhead Line	41.1	670.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282597	6181984	13.2KV_3P_Y477_AL	Overhead Line	39.4	670.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282598	6182404	13.2KV_3P_Y477_AL	Overhead Line	43.2	670.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282599	6182403	13.2KV_3P_Y477_AL	Overhead Line	39.7	670.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282600	6042707	13.2KV_3P_Y477_AL	Overhead Line	45.9	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282601	6042706	13.2KV_3P_Y477_AL	Overhead Line	41.7	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282602	6042703	13.2KV_3P_Y477_AL	Overhead Line	42.6	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282603	6042705	13.2KV_3P_Y477_AL	Overhead Line	40.3	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282604	6181088	13.2KV_3P_Y477_AL	Overhead Line	3.4	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.09	98.86	100.17
ELW14	GR282609	6182835	13.2KV_3P_Y477_AL	Overhead Line	4.1	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.87	100.17
ELW14	GR282614	6179435	13.2KV_3P_Y477_AL	Overhead Line	2.6	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.87	100.18
ELW14	GR282615	6179023	13.2KV_3P_Y500_CU	Overhead Line	5.1	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.08	98.87	100.18
ELW14	GR282620	6128769	13.2KV_3P_Y477_AL	Overhead Line	7.1	670.0000		388.5	704.9	33.6	52.0	93.5	4.4	7.8	14.0	0.7	98.06	98.87	100.18
ELW14	GR282621	18165563	13.2KV_3P_Y477_AL	Overhead Line	4.1	670.0000		388.5	704.9	33.7	52.0	93.5	4.4	7.8	14.0	0.7	98.06	98.87	100.18
ELW14	GR282799	6179420	13.2KV_3P_Y477_AL	Overhead Line	6.7	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.39	98.99	100.00
ELW14	GR282804	6179425	13.2KV_3P_Y477_AL	Overhead Line	7.1	670.0000		321.8	310.0	217.1	42.9	41.1	28.5	6.4	6.1	4.3	98.43	99.01	99.98
ELW14	GR282810	6131612	13.2KV_3P_Y477_AL	Overhead Line	37.2	670.0000		321.6	309.9	217.0	42.9	41.1	28.5	6.4	6.1	4.3	98.38	98.96	99.95
ELW14	GR282811	6131613	13.2KV_3P_Y477_AL	Overhead Line	47.0	670.0000		321.6	309.8	217.0	42.9	41.1	28.5	6.4	6.1	4.3	98.37	98.95	99.95
ELW14	GR282812	6131616	13.2KV_3P_Y477_AL	Overhead Line	40.9	670.0000		321.6	309.8	217.0	42.9	41.1	28.5	6.4	6.1	4.3	98.36	98.95	99.95
ELW14	GR282813	6132033	13.2KV_3P_Y477_AL	Overhead Line	36.2	670.0000		321.5	309.8	217.0	42.9	41.1	28.5	6.4	6.1	4.3	98.35	98.95	99.95
ELW14	GR282814	6130410	13.2KV_3P_Y477_AL	Overhead Line	3.9	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.35	98.95	99.95
ELW14	GR282818	6132036	13.2KV_3P_Y477_AL	Overhead Line	47.3	670.0000		321.5	309.8	217.0	42.9	41.1	28.5	6.4	6.1	4.3	98.34	98.94	99.95
ELW14	GR282819	6132039	13.2KV_3P_Y477_AL	Overhead Line	49.4	670.0000		321.5	309.8	217.0	42.9	41.1	28.5	6.4	6.1	4.3	98.33	98.94	99.95
ELW14	GR282820	6132042	13.2KV_3P_Y477_AL	Overhead Line	29.8	670.0000		321.5	309.8	217.0	42.9	41.1	28.5	6.4	6.1	4.3	98.32	98.93	99.95
ELW14	GR282821	13551842	13.2KV_3P_Y477_AL	Overhead Line	23.7	670.0000		321.4	309.8	217.0	42.9	41.1	28.5	6.4	6.1	4.3	98.32	98.93	99.96
ELW14	GR282845	6132018	13.2KV_3P_Y477_AL	Overhead Line	46.5	670.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282846	6132179	13.2KV_3P_Y477_AL	Overhead Line	24.0	670.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282847	6130191	13.2KV_3P_Y477_AL	Overhead Line	32.8	670.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282848	6043230	13.2KV_3P_Y477_AL	Overhead Line	24.1	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282849	6179536	13.2KV_3P_Y477_AL	Overhead Line	43.1	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282850	6041513	13.2KV_3P_Y477_AL	Overhead Line	18.3	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282851	6042313	13.2KV_3P_Y477_AL	Overhead Line	26.7	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282852	6042316	13.2KV_3P_Y477_AL	Overhead Line	37.6	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282853	6042320	13.2KV_3P_Y477_AL	Overhead Line	5.3	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282859	6042321	13.2KV_3P_Y477_AL	Overhead Line	23.2	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.32	98.93	99.96
ELW14	GR282860	6178368	13.2KV_3P_Y477_AL	Overhead Line	2.9	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282884	6178367	13.2KV_3P_Y477_AL	Overhead Line	3.6	670.0000		622.2	615.9	643.3	82.7	81.5	84.5	12.3	12.2	12.6	98.69	99.10	99.88
ELW14	GR282885	13176053	13.2KV_3P_Y477_AL	Overhead Line	7.2	670.0000		622.2	615.8	643.3	82.7	81.5	84.5	12.3	12.2	12.6	98.69	99.10	99.87
ELW14	GR282955	6178366	13.2KV_3P_Y477_AL	Overhead Line	6.5	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.72	99.12	99.88
ELW14	GR282962	6181310	13.2KV_3P_Y477_AL	Overhead Line	7.5	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.29	99.46	99.89
ELW14	GR282964	6181311	13.2KV_3P_Y477_AL	Overhead Line	6.0	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.29	99.46	99.89
ELW14	GR282965	6181312	13.2KV_3P_Y477_AL	Overhead Line	14.7	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.29	99.46	99.89
ELW14	GR282966	6181313	13.2KV_3P_Y477_AL	Overhead Line	2.6	670.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.29	99.46	99.89
ELW14	GR282575	X55528-16459253	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.4			2.9			44.5			99.40
ELW14	GR282641	KT0446-1659842	13.2KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		48.8			6.5			64.2			97.23	
ELW14	GR282646	KT0449-1659845	13.2KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		48.8			6.5			64.2			97.21	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
ELW14	GR282651	KT0620-1660013	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		32.6			4.3			64.2			97.10	
ELW14	GR282656	KT0621-1660014	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		32.6			4.3			64.2			96.93	
ELW14	GR282662	KT0451-1659847	13.2KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		48.8			6.5			64.2			96.86	
ELW14	GR282667	KT0450-1659846	13.2KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		48.8			6.5			64.2			96.80	
ELW14	GR282675	KT0448-1659844	13.2KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		48.8			6.5			64.2			96.70	
ELW14	GR282683	KT0443-1659839	13.2KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		48.8			6.5			64.2			96.58	
ELW14	GR282702	KT0175-1659579	13.2KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		48.8			6.6			64.2			96.35	
ELW14	GR282708	KT0174-1659578	13.2KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		48.8			6.6			64.2			96.35	
ELW14	GR282710	KT0227-1659631	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		32.6			4.4			64.2			96.33	
ELW14	GR282712	KT0228-1659632	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		32.6			4.4			64.2			96.34	
ELW14	GR282714	KT0229-1659633	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		32.6			4.4			64.2			96.36	
ELW14	GR282716	KT0445-1659841	13.2KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		48.8			6.5			64.2			96.63	
ELW14	GR282718	KT0447-1659843	13.2KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		48.8			6.5			64.2			96.74	
ELW14	GR282720	KT0444-1659840	13.2KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		48.8			6.5			64.2			97.46	
ELW14	GR282731	KT0410-1659806	13.2KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			33.6			4.4			44.5			99.46
ELW14	GR282740	TP4188-11328601	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	33.7			4.5			66.2			96.26		
ELW14	GR282745	TP4189-11328594	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	33.7			4.5			66.2			96.21		
ELW14	GR282750	TP4190-11229806	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	33.7			4.5			66.2			96.10		
ELW14	GR282755	TP4191-11234291	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	33.7			4.5			66.2			96.07		
ELW14	GR282760	TP4192-11234295	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	33.7			4.5			66.2			96.03		
ELW14	GR282765	TP4193-11234297	13.2KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	50.5			6.8			66.2			96.09		
ELW14	GR282770	TP4194-11224631	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	33.7			4.5			66.2			95.98		
ELW14	GR282775	TP4195-11232882	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	33.7			4.5			66.2			95.98		
ELW14	GR282780	TP4196-11234300	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	33.7			4.5			66.2			95.97		
ELW14	GR282785	TP4197-11234305	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	33.7			4.5			66.2			95.96		
ELW14	GR282793	KT0230-1659634	13.2KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	33.7			4.5			66.2			95.95		
ELW14	GR282843	TP11232-15580296	13.2KV_347V/600V_1500_3P	Two-Winding Transformer	0.0		1500.00	321.3	309.6	217.0	42.9	41.1	28.5	62.9	61.0	43.1	96.18	97.41	99.37
ELW14	GR282875	AN_SS-15545287	13.2KV_120V/240V_50_3P	Two-Winding Transformer	0.0		50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	99.09	99.89
ELW14	GR282920	VT1565-T1-1674328	13.2KV_600V_501_3P	Two-Winding Transformer	0.0		501.00	112.8	108.3	149.3	15.0	14.4	19.7	66.8	63.7	87.3	97.16	97.37	97.41
ELW14	GR282943	TP4741-11243684	13.2KV_347V/600V_750_3P	Two-Winding Transformer	0.0		750.00	122.3	119.6	101.2	16.3	15.9	13.3	48.1	47.2	40.1	96.89	97.53	98.63
ELW14	GR282951	VT0243-T1-1673705	13.2KV_347V/600V_3000_3P	Two-Winding Transformer	0.0		3000.00	388.0	389.7	392.7	51.7	51.7	51.7	12.9	13.0	13.1	98.43	98.85	99.61

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2120436	14730408	BUS27.6KV_3P_0A_SECONDARY	Cable	0.1	600.0000		5783.5	5783.6	5785.3	362.9	363.0	363.1	60.5	60.5	60.5	100.00	100.00	100.00
LTM02	GR2120437	16475627	BUS27.6KV_3P_0A__AIR	Cable	0.1	600.0000		5783.5	5783.6	5785.3	362.9	363.0	363.1	60.5	60.5	60.5	100.00	100.00	100.00
LTM02	GR2120438	4000131	BUS27.6KV_3P_0A_SECONDARY	Cable	0.1	600.0000		5783.5	5783.6	5785.3	362.9	363.0	363.1	60.5	60.5	60.5	100.00	100.00	100.00
LTM02	GR2120439	15524267	27.6KV_3P_750_AL_TRXLPE	Cable	0.0	455.0000		5783.5	5783.6	5785.3	362.9	363.0	363.1	79.8	79.8	79.8	100.00	100.00	100.00
LTM02	GR2120440	11554144	27.6KV_3P_750_AL_TRXLPE	Cable	50.2	455.0000		5783.5	5783.6	5785.3	362.9	363.0	363.1	79.8	79.8	79.8	99.97	99.97	99.97
LTM02	GR2120519	4031727	27.6KV_3P_1/0_AL_XLPE	Cable	68.5	180.0000		250.5	274.2	273.7	16.0	17.5	17.5	8.9	9.7	9.7	98.15	98.15	98.13
LTM02	GR2120583	15607926	27.6KV_3P_1/0_CU_XLPE	Cable	8.8	180.0000		55.9	56.5	47.1	3.6	3.6	3.0	2.0	2.0	1.7	98.03	98.01	97.97
LTM02	GR2120596	4047270	27.6KV_3P_1/0_AL_XLPE	Cable	36.5	180.0000		55.9	56.5	47.1	3.6	3.6	3.0	2.0	2.0	1.7	98.02	98.01	97.97
LTM02	GR2120631	13520964	27.6KV_3P_1/0_AL_XLPE	Cable	23.8	180.0000		83.7	92.0	90.0	5.4	5.9	5.8	3.0	3.3	3.2	97.96	97.92	97.85
LTM02	GR2120659	18001958	27.6KV_3P_1/0_AL_TRXLPE	Cable	11.2	180.0000		139.4	141.0	117.5	8.9	9.0	7.5	5.0	5.0	4.2	97.91	97.87	97.79
LTM02	GR2120733	18988938	27.6KV_3P_1/0_AL_XLPE	Cable	27.4	180.0000		55.9	56.5	47.1	3.6	3.6	3.0	2.0	2.0	1.7	97.60	97.47	97.22
LTM02	GR2120792	11432622	27.6KV_3P_1/0_AL_XLPE	Cable	7.8	180.0000		55.9	56.5	47.1	3.6	3.7	3.1	2.0	2.0	1.7	97.26	97.08	96.62
LTM02	GR2120803	18203535	27.6KV_3P_1/0_AL_XLPE	Cable	8.3	180.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.20	96.99	96.49
LTM02	GR2120804	18203545	27.6KV_3P_1/0_AL_XLPE	Cable	122.0	180.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.20	96.99	96.49
LTM02	GR2120811	18205263	27.6KV_3P_1/0_AL_TRXLPE	Cable	267.7	180.0000		501.1	601.7	392.5	32.4	38.9	25.5	18.0	21.6	14.2	97.14	96.92	96.42
LTM02	GR2120812	18116923	27.6KV_1P_1/0_AL_TRXLPE	Cable	87.8	180.0000				392.4			25.5			14.2			96.41
LTM02	GR2120813	18117007	27.6KV_1P_1/0_AL_TRXLPE	Cable	122.3	180.0000				392.3			25.5			14.2			96.39
LTM02	GR2120818	18117120	27.6KV_1P_1/0_AL_TRXLPE	Cable	25.0	180.0000				313.8			20.4			11.3			96.38
LTM02	GR2120823	18117140	27.6KV_1P_1/0_AL_TRXLPE	Cable	77.6	180.0000				235.3			15.3			8.5			96.38
LTM02	GR2120828	18117172	27.6KV_1P_1/0_AL_TRXLPE	Cable	83.3	180.0000				156.9			10.2			5.7			96.37
LTM02	GR2120833	18117176	27.6KV_1P_1/0_AL_TRXLPE	Cable	30.9	180.0000				78.4			5.1			2.8			96.37
LTM02	GR2120838	18116997	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.1	180.0000		500.9			32.4			18.0			97.14		
LTM02	GR2120843	16502866	27.6KV_1P_1/0_AL_TRXLPE	Cable	28.5	180.0000		445.3			28.8			16.0			97.13		
LTM02	GR2120848	16502818	27.6KV_1P_1/0_AL_TRXLPE	Cable	73.6	180.0000		389.6			25.2			14.0			97.12		
LTM02	GR2120849	16502865	27.6KV_1P_1/0_AL_TRXLPE	Cable	139.9	180.0000		389.6			25.2			14.0			97.10		
LTM02	GR2120854	16502863	27.6KV_1P_1/0_AL_TRXLPE	Cable	77.5	180.0000		333.9			21.6			12.0			97.08		
LTM02	GR2120859	16502862	27.6KV_1P_1/0_AL_TRXLPE	Cable	99.3	180.0000		278.2			18.0			10.0			97.07		
LTM02	GR2120864	16502861	27.6KV_1P_1/0_AL_TRXLPE	Cable	59.8	180.0000		222.6			14.4			8.0			97.07		
LTM02	GR2120869	18205363	27.6KV_1P_1/0_AL_TRXLPE	Cable	264.5	180.0000		166.9			10.8			6.0			97.05		
LTM02	GR2120874	16502857	27.6KV_1P_1/0_AL_TRXLPE	Cable	106.9	180.0000		111.3			7.2			4.0			97.04		
LTM02	GR2120879	16502856	27.6KV_1P_1/0_AL_TRXLPE	Cable	132.8	180.0000		55.6			3.6			2.0			97.04		
LTM02	GR2120884	16502855	27.6KV_1P_1/0_AL_TRXLPE	Cable	104.2	180.0000		0.0			0.0			0.0			97.04		
LTM02	GR2120885	18117363	27.6KV_1P_1/0_AL_TRXLPE	Cable	79.2	180.0000			601.3			38.9			21.6			96.90	
LTM02	GR2120890	16502869	27.6KV_1P_1/0_AL_TRXLPE	Cable	49.9	180.0000			544.9			35.3			19.6			96.88	
LTM02	GR2120891	16502870	27.6KV_1P_1/0_AL_TRXLPE	Cable	64.9	180.0000			544.9			35.3			19.6			96.87	
LTM02	GR2120896	16502871	27.6KV_1P_1/0_AL_TRXLPE	Cable	225.6	180.0000			488.5			31.6			17.6			96.82	
LTM02	GR2120901	18117385	27.6KV_1P_1/0_AL_TRXLPE	Cable	161.7	180.0000			432.0			28.0			15.6			96.79	
LTM02	GR2120906	18192235	27.6KV_1P_1/0_AL_TRXLPE	Cable	180.5	180.0000			375.6			24.4			13.5			96.76	
LTM02	GR2120911	18192234	27.6KV_1P_1/0_AL_TRXLPE	Cable	91.0	180.0000			347.4			22.5			12.5			96.75	
LTM02	GR2120916	18192233	27.6KV_1P_1/0_AL_TRXLPE	Cable	83.1	180.0000			253.3			16.4			9.1			96.74	
LTM02	GR2120921	18192375	27.6KV_1P_1/0_AL_TRXLPE	Cable	162.0	180.0000			211.1			13.7			7.6			96.73	
LTM02	GR2120926	18192253	27.6KV_1P_1/0_AL_TRXLPE	Cable	83.4	180.0000			168.8			11.0			6.1			96.72	
LTM02	GR2120931	18192254	27.6KV_1P_1/0_AL_TRXLPE	Cable	116.7	180.0000			112.5			7.3			4.1			96.71	
LTM02	GR2120936	18192255	27.6KV_1P_1/0_AL_TRXLPE	Cable	102.4	180.0000			56.3			3.7			2.0			96.71	
LTM02	GR2120992	17240985	27.6KV_3P_1000_AL_XLPE	Cable	46.1	505.0000		650.5	563.4	803.8	42.0	36.5	52.4	8.3	7.2	10.4	97.11	96.86	96.23
LTM02	GR2120993	17240983	27.6KV_3P_1000_AL_XLPE	Cable	172.5	505.0000		650.5	563.3	803.7	42.0	36.5	52.4	8.3	7.2	10.4	97.10	96.86	96.22
LTM02	GR2120994	17240982	27.6KV_3P_1000_AL_XLPE	Cable	109.1	505.0000		650.4	563.3	803.6	42.0	36.5	52.4	8.3	7.2	10.4	97.09	96.85	96.21
LTM02	GR2120995	17240976	27.6KV_3P_1000_AL_XLPE	Cable	163.6	505.0000		650.4	563.3	803.6	42.0	36.5	52.4	8.3	7.2	10.4	97.08	96.85	96.20
LTM02	GR2120996	17240969	27.6KV_3P_1000_AL_XLPE	Cable	87.9	505.0000		650.3	563.2	803.5	42.0	36.5	52.4	8.3	7.2	10.4	97.08	96.84	96.19
LTM02	GR2120997	16501805	27.6KV_3P_1000_AL_TRXLPE	Cable	0.0	505.0000		650.3	563.2	803.4	42.0	36.5	52.4	8.3	7.2	10.4	97.08	96.84	96.19
LTM02	GR2120998	16501665	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		650.3	563.2	803.4	42.0	36.5	52.4	7.0	6.1	8.7	97.08	96.84	96.19
LTM02	GR2120999	16501816	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		650.3	563.2	803.4	42.0	36.5	52.4	7.0	6.1	8.7	97.08	96.84	96.19
LTM02	GR2121000	16501713	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		650.3	506.9	301.6	42.0	32.9	19.7	7.0	5.5	3.3	97.08	96.84	96.19
LTM02	GR2121001	16501723	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		650.3	506.9	301.6	42.0	32.9	19.7	7.0	5.5	3.3	97.08	96.84	96.19
LTM02	GR2121002	16501819	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		650.3			42.0			7.0			97.08		
LTM02	GR2121003	16501682	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		650.3			42.0			7.0			97.08		
LTM02	GR2121004	16501808	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000		650.3			42.0			23.4			97.08		
LTM02	GR2121005	16502842	27.6KV_1P_1/0_AL_TRXLPE	Cable	90.4	180.0000		650.3			42.0			23.4			97.05		
LTM02	GR2121006	16502837	27.6KV_1P_1/0_AL_TRXLPE	Cable	92.2	180.0000		650.1			42.0			23.4			97.03		
LTM02	GR2121011	16502840	27.6KV_1P_1/0_AL_TRXLPE	Cable	54.8	180.0000		594.3			38.4			21.4			97.01		
LTM02	GR2121016	16502841	27.6KV_1P_1/0_AL_TRXLPE	Cable	31.5	180.0000		538.6			34.8			19.4			97.01		
LTM02	GR2121017	16502843	27.6KV_1P_1/0_AL_TRXLPE	Cable	163.9	180.0000		538.6			34.8			19.4			96.97		
LTM02	GR2121018	16502844	27.6KV_1P_1/0_AL_TRXLPE	Cable	108.4	180.0000		538.4			34.8			19.4			96.94		
LTM02	GR2121019	16502845	27.6KV_1P_1/0_AL_TRXLPE	Cable	36.0	180.0000		538.2			34.8			19.4			96.94		
LTM02	GR2121024	16502847	27.6KV_1P_1/0_AL_TRXLPE	Cable	17.0	180.0000		482.6			31.2			17.4			96.93		
LTM02	GR2121029	16502848	27.6KV_1P_1/0_AL_TRXLPE	Cable	98.5	180.0000		426.9			27.6			15.4			96.91		
LTM02	GR2121034	16502849	27.6KV_1P_1/0_AL_TRXLPE	Cable	53.8	180.0000		371.2			24.0			13.4			96.91		
LTM02	GR2121039	16502850	27.6KV_1P_1/0_AL_TRXLPE	Cable	27.8	180.0000		315.5			20.4			11.4			96.90		
LTM02	GR2121044	16502851	27.6KV_1P_1/0_AL_TRXLPE	Cable	54.5	180.0000		259.9			16.8			9.4			96.90		
LTM02	GR2121049	16502852	27.6KV_1P_1/0_AL_TRXLPE	Cable	122.3	180.0000		204.3			13.2			7.3			96.88		
LTM02	GR2121054	16502853	27.6KV_1P_1/0_AL_TRXLPE	Cable	54.0	180.0000		111.3			7.2			4.0			96.88		
LTM02	GR2121059	16502854	27.6KV_1P_1/0_AL_TRXLPE	Cable	139.1	180.0000		55.6			3.6			2.0			96.88		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2121063	16501822	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000				301.6			19.7			3.3			96.19
LTM02	GR2121064	16501821	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000				301.6			19.7			3.3			96.19
LTM02	GR2121065	18117324	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000				301.6			19.7			10.9			96.19
LTM02	GR2121066	18117293	27.6KV_1P_1/0_AL_TRXLPE	Cable	360.5	180.0000				301.6			19.7			10.9			96.15
LTM02	GR2121071	16502859	27.6KV_1P_1/0_AL_TRXLPE	Cable	96.2	180.0000				254.6			16.6			9.2			96.14
LTM02	GR2121076	18117266	27.6KV_1P_1/0_AL_TRXLPE	Cable	190.2	180.0000				207.6			13.6			7.5			96.12
LTM02	GR2121081	18117251	27.6KV_1P_1/0_AL_TRXLPE	Cable	18.6	180.0000				160.6			10.5			5.8			96.12
LTM02	GR2121086	18117244	27.6KV_1P_1/0_AL_TRXLPE	Cable	133.1	180.0000				113.7			7.4			4.1			96.11
LTM02	GR2121091	18117181	27.6KV_1P_1/0_AL_TRXLPE	Cable	56.8	180.0000				78.4			5.1			2.8			96.11
LTM02	GR2121096	18117180	27.6KV_1P_1/0_AL_TRXLPE	Cable	91.6	180.0000				0.0			0.0			0.0			96.11
LTM02	GR2121097	16501823	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000			506.9			32.9			5.5			96.84	
LTM02	GR2121098	16501820	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000			506.9			32.9			5.5			96.84	
LTM02	GR2121099	16501809	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000			506.9			32.9			18.3			96.84	
LTM02	GR2121100	16502029	27.6KV_1P_1/0_AL_TRXLPE	Cable	159.0	180.0000			506.9			32.9			18.3			96.81	
LTM02	GR2121105	16502032	27.6KV_1P_1/0_AL_TRXLPE	Cable	40.4	180.0000			450.5			29.2			16.2			96.80	
LTM02	GR2121110	16502149	27.6KV_1P_1/0_AL_TRXLPE	Cable	202.7	180.0000			394.2			25.6			14.2			96.77	
LTM02	GR2121115	16502147	27.6KV_1P_1/0_AL_TRXLPE	Cable	98.5	180.0000			337.8			21.9			12.2			96.75	
LTM02	GR2121120	16502148	27.6KV_1P_1/0_AL_TRXLPE	Cable	182.0	180.0000			281.5			18.3			10.1			96.73	
LTM02	GR2121125	16502291	27.6KV_1P_1/0_AL_TRXLPE	Cable	144.3	180.0000			225.1			14.6			8.1			96.72	
LTM02	GR2121130	16502564	27.6KV_1P_1/0_AL_TRXLPE	Cable	95.3	180.0000			168.8			11.0			6.1			96.71	
LTM02	GR2121135	16502572	27.6KV_1P_1/0_AL_TRXLPE	Cable	87.4	180.0000			112.5			7.3			4.1			96.70	
LTM02	GR2121140	16502573	27.6KV_1P_1/0_AL_TRXLPE	Cable	12.5	180.0000			56.3			3.7			2.0			96.70	
LTM02	GR2121145	18192936	27.6KV_1P_1/0_AL_TRXLPE	Cable	103.2	180.0000			0.0			0.0			0.0			96.70	
LTM02	GR2121147	16501818	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.08	96.84	96.19
LTM02	GR2121148	16501718	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.08	96.84	96.19
LTM02	GR2121149	16501817	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	56.3	501.8	0.0	3.6	32.7	0.0	0.6	5.5	97.08	96.84	96.19
LTM02	GR2121150	16501708	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	56.3	501.8	0.0	3.6	32.7	0.0	0.6	5.5	97.08	96.84	96.19
LTM02	GR2121151	18986756	27.6KV_3P_1/0_AL_TRXLPE	Cable	0.0	180.0000		0.0	56.3	501.8	0.0	3.6	32.7	0.0	2.0	18.2	97.08	96.84	96.19
LTM02	GR2121152	18986769	27.6KV_3P_1000_AL_XLPE	Cable	238.0	505.0000		0.0	56.3	501.8	0.0	3.6	32.7	0.0	0.7	6.5	97.08	96.84	96.18
LTM02	GR2121153	18986764	27.6KV_3P_1000_AL_XLPE	Cable	72.5	505.0000		0.0	56.3	501.8	0.0	3.6	32.7	0.0	0.7	6.5	97.08	96.84	96.18
LTM02	GR2121154	18190875	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		0.0	56.3	501.7	0.0	3.6	32.7	0.0	0.7	6.5	97.08	96.84	96.18
LTM02	GR2121155	18190885	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		0.0	56.3	501.7	0.0	3.6	32.7	0.0	0.7	6.5	97.08	96.84	96.18
LTM02	GR2121156	18190866	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	56.3	501.7	0.0	3.6	32.7	0.0	0.6	5.5	97.08	96.84	96.18
LTM02	GR2121157	18190867	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	56.3	501.7	0.0	3.6	32.7	0.0	0.6	5.5	97.08	96.84	96.18
LTM02	GR2121158	18190864	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	56.3	407.8	0.0	3.6	26.6	0.0	0.6	4.4	97.08	96.84	96.18
LTM02	GR2121159	18190861	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000				407.8			26.6			4.4			96.18
LTM02	GR2121160	18190876	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000				407.8			26.6			14.8			96.18
LTM02	GR2121161	18190882	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000				407.8			26.6			14.8			96.18
LTM02	GR2121162	18190965	27.6KV_1P_1/0_AL_TRXLPE	Cable	50.6	180.0000				407.8			26.6			14.8			96.17
LTM02	GR2121167	18190959	27.6KV_1P_1/0_AL_TRXLPE	Cable	152.7	180.0000				360.8			23.5			13.1			96.15
LTM02	GR2121172	18190950	27.6KV_1P_1/0_AL_TRXLPE	Cable	20.1	180.0000				282.3			18.4			10.2			96.14
LTM02	GR2121177	18190958	27.6KV_1P_1/0_AL_TRXLPE	Cable	88.3	180.0000				203.9			13.3			7.4			96.14
LTM02	GR2121182	18191010	27.6KV_1P_1/0_AL_TRXLPE	Cable	153.6	180.0000				156.9			10.2			5.7			96.13
LTM02	GR2121187	18191046	27.6KV_1P_1/0_AL_TRXLPE	Cable	88.8	180.0000				78.4			5.1			2.8			96.12
LTM02	GR2121191	18190862	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			97.08		
LTM02	GR2121192	18190883	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000		0.0			0.0			0.0			97.08		
LTM02	GR2121193	18190863	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000			56.3			3.6			0.6			96.84	
LTM02	GR2121194	18190884	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000			56.3			3.6			2.0			96.84	
LTM02	GR2121195	18190881	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000			56.3			3.6			2.0			96.84	
LTM02	GR2121196	18190825	27.6KV_1P_1/0_AL_TRXLPE	Cable	325.5	180.0000			56.3			3.6			2.0			96.84	
LTM02	GR2121197	18190824	27.6KV_1P_1/0_AL_TRXLPE	Cable	364.5	180.0000			56.3			3.6			2.0			96.83	
LTM02	GR2121201	18190865	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	93.9	0.0	0.0	6.1	0.0	0.0	1.0	97.08	96.84	96.18
LTM02	GR2121202	18190869	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			97.08		
LTM02	GR2121203	18190887	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000		0.0			0.0			0.0			97.08		
LTM02	GR2121204	18190870	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000			0.0			0.0			0.0			96.84	
LTM02	GR2121205	18190888	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000			0.0			0.0			0.0			96.84	
LTM02	GR2121206	18190871	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000				93.9			6.1			1.0			96.18
LTM02	GR2121207	18190889	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000				93.9			6.1			3.4			96.18
LTM02	GR2121208	18190879	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000				93.9			6.1			3.4			96.18
LTM02	GR2121209	18190784	27.6KV_1P_1/0_AL_TRXLPE	Cable	321.7	180.0000				93.9			6.1			3.4			96.17
LTM02	GR2121210	18190783	27.6KV_1P_1/0_AL_TRXLPE	Cable	367.1	180.0000				93.9			6.1			3.4			96.15
LTM02	GR2121215	18134649	27.6KV_1P_1/0_AL_TRXLPE	Cable	119.4	180.0000				46.9			3.1			1.7			96.15
LTM02	GR2121220	18134629	27.6KV_1P_1/0_AL_TRXLPE	Cable	81.0	180.0000				0.0			0.0			0.0			96.15
LTM02	GR2121224	18190868	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.08	96.84	96.18
LTM02	GR2121225	18190886	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.08	96.84	96.18
LTM02	GR2121236	18100503	27.6KV_3P_1/0_AL_TRXLPE	Cable	80.5	180.0000		93.0	94.1	78.5	6.0	6.1	5.1	3.3	3.4	2.8	97.10	96.82	96.15
LTM02	GR2121244	17242278	27.6KV_3P_1/0_AL_TRXLPE	Cable	180.6	180.0000		612.4	563.3	1148.0	39.6	36.5	74.9	22.0	20.3	41.6	97.07	96.80	96.06
LTM02	GR2121245	17242241	27.6KV_1P_1/0_AL_TRXLPE	Cable	48.5	180.0000				1147.1			74.9			41.6			96.04
LTM02	GR2121250	17242471	27.6KV_1P_1/0_AL_TRXLPE	Cable	53.4	180.0000				1099.9			71.9			39.9			96.01
LTM02	GR2121255	17242477	27.6KV_1P_1/0_AL_TRXLPE	Cable	107.8	180.0000				1052.6			68.8			38.2			95.96
LTM02	GR2121260	17242492	27.6KV_1P_1/0_AL_TRXLPE	Cable	139.1	180.0000				1005.1			65.7			36.5			95.90
LTM02	GR2121265	17242525	27.6KV_1P_1/0_AL_TRXLPE	Cable	130.0	180.0000				926.1			60.6			33.7			95.85

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2121270	17242608	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.6	180.0000				878.6			57.5			32.0			95.83
LTM02	GR2121275	17242695	27.6KV_1P_1/0_AL_TRXLPE	Cable	12.5	180.0000				831.5			54.5			30.3			95.83
LTM02	GR2121280	17242701	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.3	180.0000				784.5			51.4			28.5			95.81
LTM02	GR2121285	17242568	27.6KV_1P_1/0_AL_TRXLPE	Cable	212.7	180.0000				737.4			48.3			26.8			95.74
LTM02	GR2121290	17242733	27.6KV_1P_1/0_AL_TRXLPE	Cable	31.4	180.0000				689.9			45.2			25.1			95.73
LTM02	GR2121295	17242591	27.6KV_1P_1/0_AL_TRXLPE	Cable	74.2	180.0000				642.9			42.1			23.4			95.71
LTM02	GR2121296	17242593	27.6KV_1P_1/0_AL_TRXLPE	Cable	123.8	180.0000				642.8			42.1			23.4			95.68
LTM02	GR2121301	17242602	27.6KV_1P_1/0_AL_TRXLPE	Cable	74.1	180.0000				595.6			39.1			21.7			95.66
LTM02	GR2121306	17242788	27.6KV_1P_1/0_AL_TRXLPE	Cable	76.6	180.0000				548.5			36.0			20.0			95.64
LTM02	GR2121311	17242863	27.6KV_1P_1/0_AL_TRXLPE	Cable	106.1	180.0000				501.5			32.9			18.3			95.62
LTM02	GR2121316	17242872	27.6KV_1P_1/0_AL_TRXLPE	Cable	72.1	180.0000				454.4			29.8			16.6			95.60
LTM02	GR2121321	17242909	27.6KV_1P_1/0_AL_TRXLPE	Cable	130.2	180.0000				407.4			26.7			14.9			95.58
LTM02	GR2121326	17242955	27.6KV_1P_1/0_AL_TRXLPE	Cable	104.8	180.0000				360.4			23.7			13.1			95.56
LTM02	GR2121331	17242982	27.6KV_1P_1/0_AL_TRXLPE	Cable	23.1	180.0000				313.3			20.6			11.4			95.56
LTM02	GR2121336	17243177	27.6KV_1P_1/0_AL_TRXLPE	Cable	277.6	180.0000				266.4			17.5			9.7			95.53
LTM02	GR2121341	17243184	27.6KV_1P_1/0_AL_TRXLPE	Cable	101.3	180.0000				187.8			12.3			6.9			95.52
LTM02	GR2121346	17243201	27.6KV_1P_1/0_AL_TRXLPE	Cable	20.1	180.0000				140.9			9.3			5.1			95.52
LTM02	GR2121351	17243221	27.6KV_1P_1/0_AL_TRXLPE	Cable	152.9	180.0000				93.9			6.2			3.4			95.51
LTM02	GR2121356	17243253	27.6KV_1P_1/0_AL_TRXLPE	Cable	35.6	180.0000				47.0			3.1			1.7			95.51
LTM02	GR2121361	17242772	27.6KV_1P_1/0_AL_TRXLPE	Cable	96.0	180.0000				0.0			0.0			0.0			95.51
LTM02	GR2121362	17242822	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000				0.0			0.0			0.0			95.51
LTM02	GR2121363	17242242	27.6KV_2P_1/0_AL_TRXLPE	Cable	17.1	180.0000		612.2	563.2		39.6	36.5		22.0	20.3		97.07	96.79	
LTM02	GR2121364	17242243	27.6KV_1P_1/0_AL_TRXLPE	Cable	45.5	180.0000			563.2			36.5			20.3			96.78	
LTM02	GR2121369	17242466	27.6KV_1P_1/0_AL_TRXLPE	Cable	65.2	180.0000			506.9			32.9			18.3			96.77	
LTM02	GR2121374	17242484	27.6KV_1P_1/0_AL_TRXLPE	Cable	140.3	180.0000			450.5			29.2			16.2			96.74	
LTM02	GR2121379	17977483	27.6KV_1P_1/0_AL_TRXLPE	Cable	154.9	180.0000			394.1			25.6			14.2			96.71	
LTM02	GR2121384	17242499	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.4	180.0000			337.8			21.9			12.2			96.71	
LTM02	GR2121389	17242544	27.6KV_1P_1/0_AL_TRXLPE	Cable	247.6	180.0000			281.5			18.3			10.1			96.68	
LTM02	GR2121394	17242704	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.4	180.0000			225.1			14.6			8.1			96.67	
LTM02	GR2121399	17242713	27.6KV_1P_1/0_AL_TRXLPE	Cable	12.4	180.0000			168.8			11.0			6.1			96.67	
LTM02	GR2121404	17242721	27.6KV_1P_1/0_AL_TRXLPE	Cable	42.2	180.0000			112.5			7.3			4.1			96.67	
LTM02	GR2121409	17977490	27.6KV_1P_1/0_AL_TRXLPE	Cable	216.4	180.0000			56.3			3.7			2.0			96.66	
LTM02	GR2121414	17242755	27.6KV_1P_1/0_AL_TRXLPE	Cable	69.6	180.0000			0.0			0.0			0.0			96.66	
LTM02	GR2121415	17242821	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000			0.0			0.0			0.0			96.66	
LTM02	GR2121416	17242244	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.9	180.0000		612.2			39.6			22.0			97.07		
LTM02	GR2121421	17242279	27.6KV_1P_1/0_AL_TRXLPE	Cable	45.0	180.0000		556.6			36.0			20.0			97.06		
LTM02	GR2121426	18063450	27.6KV_1P_1/0_AL_TRXLPE	Cable	58.5	180.0000		500.9			32.4			18.0			97.04		
LTM02	GR2121431	18060812	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.5	180.0000		459.1			29.7			16.5			97.03		
LTM02	GR2121436	18060696	27.6KV_1P_1/0_AL_TRXLPE	Cable	12.8	180.0000		417.3			27.0			15.0			97.03		
LTM02	GR2121441	18060768	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.4	180.0000		375.6			24.3			13.5			97.02		
LTM02	GR2121446	18060914	27.6KV_1P_1/0_AL_TRXLPE	Cable	99.2	180.0000		333.9			21.6			12.0			97.01		
LTM02	GR2121451	18060953	27.6KV_1P_1/0_AL_TRXLPE	Cable	47.4	180.0000		292.1			18.9			10.5			97.00		
LTM02	GR2121456	18060966	27.6KV_1P_1/0_AL_TRXLPE	Cable	64.7	180.0000		250.4			16.2			9.0			97.00		
LTM02	GR2121461	18060984	27.6KV_1P_1/0_AL_TRXLPE	Cable	12.6	180.0000		208.6			13.5			7.5			97.00		
LTM02	GR2121466	18061004	27.6KV_1P_1/0_AL_TRXLPE	Cable	64.8	180.0000		166.9			10.8			6.0			96.99		
LTM02	GR2121471	18061010	27.6KV_1P_1/0_AL_TRXLPE	Cable	71.4	180.0000		125.2			8.1			4.5			96.99		
LTM02	GR2121476	18061014	27.6KV_1P_1/0_AL_TRXLPE	Cable	78.9	180.0000		83.4			5.4			3.0			96.98		
LTM02	GR2121481	18061029	27.6KV_1P_1/0_AL_TRXLPE	Cable	49.3	180.0000		41.7			2.7			1.5			96.98		
LTM02	GR2121502	18191657	27.6KV_3P_1/0_AL_TRXLPE	Cable	119.8	180.0000		470.0	183.0	286.2	30.4	11.9	18.7	16.9	6.6	10.4	97.08	96.86	96.20
LTM02	GR2121503	18191658	27.6KV_3P_1/0_AL_TRXLPE	Cable	170.5	180.0000		469.9	183.0	286.1	30.4	11.9	18.7	16.9	6.6	10.4	97.06	96.85	96.19
LTM02	GR2121504	18191659	27.6KV_3P_1/0_AL_TRXLPE	Cable	111.9	180.0000		469.8	183.0	286.1	30.4	11.9	18.7	16.9	6.6	10.4	97.04	96.85	96.18
LTM02	GR2121505	18182390	27.6KV_1P_1/0_AL_TRXLPE	Cable	85.3	180.0000				286.1			18.7			10.4			96.17
LTM02	GR2121510	18154917	27.6KV_1P_1/0_AL_TRXLPE	Cable	76.3	180.0000				250.8			16.4			9.1			96.16
LTM02	GR2121515	18154893	27.6KV_1P_1/0_AL_TRXLPE	Cable	26.8	180.0000				172.4			11.2			6.2			96.16
LTM02	GR2121520	18153722	27.6KV_1P_1/0_AL_TRXLPE	Cable	128.4	180.0000				125.4			8.2			4.5			96.15
LTM02	GR2121521	18153753	27.6KV_1P_1/0_AL_TRXLPE	Cable	162.6	180.0000				125.4			8.2			4.5			96.14
LTM02	GR2121522	18153736	27.6KV_1P_1/0_AL_TRXLPE	Cable	88.0	180.0000				125.4			8.2			4.5			96.14
LTM02	GR2121523	18153740	27.6KV_1P_1/0_AL_TRXLPE	Cable	104.6	180.0000				125.4			8.2			4.5			96.13
LTM02	GR2121528	18191085	27.6KV_1P_1/0_AL_TRXLPE	Cable	93.2	180.0000				78.4			5.1			2.8			96.13
LTM02	GR2121533	18191067	27.6KV_1P_1/0_AL_TRXLPE	Cable	258.0	180.0000				0.0			0.0			0.0			96.13
LTM02	GR2121535	18191665	27.6KV_2P_1/0_AL_TRXLPE	Cable	164.0	180.0000		469.7	183.0		30.4	11.9		16.9	6.6		97.01	96.84	
LTM02	GR2121536	18191666	27.6KV_2P_1/0_AL_TRXLPE	Cable	88.0	180.0000		469.6	183.0		30.4	11.9		16.9	6.6		96.99	96.84	
LTM02	GR2121537	18191667	27.6KV_2P_1/0_AL_TRXLPE	Cable	87.7	180.0000		469.5	183.0		30.4	11.9		16.9	6.6		96.97	96.83	
LTM02	GR2121538	18191815	27.6KV_1P_1/0_AL_TRXLPE	Cable	149.2	180.0000			183.0			11.9			6.6			96.82	
LTM02	GR2121539	18191826	27.6KV_1P_1/0_AL_TRXLPE	Cable	342.8	180.0000			182.9			11.9			6.6			96.79	
LTM02	GR2121540	18191802	27.6KV_1P_1/0_AL_TRXLPE	Cable	125.2	180.0000			182.9			11.9			6.6			96.78	
LTM02	GR2121545	18134762	27.6KV_1P_1/0_AL_TRXLPE	Cable	49.3	180.0000			126.6			8.2			4.6			96.78	
LTM02	GR2121550	18134766	27.6KV_1P_1/0_AL_TRXLPE	Cable	18.3	180.0000			84.4			5.5			3.0			96.78	
LTM02	GR2121555	18134784	27.6KV_1P_1/0_AL_TRXLPE	Cable	81.8	180.0000			42.2			2.7			1.5			96.78	
LTM02	GR2121559	18191816	27.6KV_1P_1/0_AL_TRXLPE	Cable	4.3	180.0000		469.4			30.4			16.9			96.97		
LTM02	GR2121564	18191198	27.6KV_1P_1/0_AL_TRXLPE	Cable	97.9	180.0000		376.4			24.4			13.5			96.96		
LTM02	GR2121569	18191614	27.6KV_1P_1/0_AL_TRXLPE	Cable	39.9	180.0000		283.4			18.3			10.2			96.95		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2121570	18191618	27.6KV_1P_1/0_AL_TRXLPE	Cable	168.1	180.0000		283.4			18.3			10.2			96.93		
LTM02	GR2121575	18191568	27.6KV_1P_1/0_AL_TRXLPE	Cable	227.7	180.0000		190.4			12.3			6.8			96.91		
LTM02	GR2121580	18191207	27.6KV_1P_1/0_AL_TRXLPE	Cable	90.1	180.0000		148.6			9.6			5.3			96.91		
LTM02	GR2121585	18191453	27.6KV_1P_1/0_AL_TRXLPE	Cable	177.9	180.0000		55.6			3.6			2.0			96.90		
LTM02	GR2121590	18190597	27.6KV_1P_1/0_AL_TRXLPE	Cable	80.1	180.0000				160.8			10.5			5.8			96.22
LTM02	GR2121591	18190589	27.6KV_1P_1/0_AL_TRXLPE	Cable	172.2	180.0000				160.7			10.5			5.8			96.20
LTM02	GR2121592	18190588	27.6KV_1P_1/0_AL_TRXLPE	Cable	110.3	180.0000				160.7			10.5			5.8			96.20
LTM02	GR2121593	18190587	27.6KV_1P_1/0_AL_TRXLPE	Cable	163.9	180.0000				160.7			10.5			5.8			96.18
LTM02	GR2121594	18190586	27.6KV_1P_1/0_AL_TRXLPE	Cable	88.0	180.0000				160.7			10.5			5.8			96.18
LTM02	GR2121595	18190585	27.6KV_1P_1/0_AL_TRXLPE	Cable	237.1	180.0000				160.7			10.5			5.8			96.16
LTM02	GR2121596	18190584	27.6KV_1P_1/0_AL_TRXLPE	Cable	338.6	180.0000				160.7			10.5			5.8			96.14
LTM02	GR2121597	18135115	27.6KV_1P_1/0_AL_TRXLPE	Cable	152.4	180.0000				160.6			10.5			5.8			96.13
LTM02	GR2121602	18134598	27.6KV_1P_1/0_AL_TRXLPE	Cable	121.1	180.0000				113.7			7.4			4.1			96.12
LTM02	GR2121607	18134606	27.6KV_1P_1/0_AL_TRXLPE	Cable	116.3	180.0000				78.4			5.1			2.8			96.12
LTM02	GR2121627	18203528	27.6KV_3P_1/0_AL_XLPE	Cable	27.5	180.0000		139.4	141.0	117.6	9.0	9.1	7.6	5.0	5.1	4.2	97.20	97.00	96.51
LTM02	GR2121628	18203530	27.6KV_3P_1/0_AL_XLPE	Cable	120.4	180.0000		139.4	141.0	117.6	9.0	9.1	7.6	5.0	5.1	4.2	97.20	97.00	96.50
LTM02	GR2121670	4044616	27.6KV_3P_1/0_AL_XLPE	Cable	46.3	180.0000		186.2	188.3	157.0	12.0	12.1	10.1	6.6	6.7	5.6	97.68	97.57	97.36
LTM02	GR2121671	13069564	27.6KV_3P_1/0_AL_XLPE	Cable	0.0	180.0000		186.2	188.3	157.0	12.0	12.1	10.1	6.6	6.7	5.6	97.68	97.57	97.36
LTM02	GR2121672	13069508	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		186.2	188.3	157.0	12.0	12.1	10.1	2.0	2.0	1.7	97.68	97.57	97.36
LTM02	GR2121673	13069503	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		186.2	188.3	157.0	12.0	12.1	10.1	2.0	2.0	1.7	97.68	97.57	97.36
LTM02	GR2121674	13069505	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.68	97.57	97.36
LTM02	GR2121675	13069506	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		186.2	188.3	157.0	12.0	12.1	10.1	2.0	2.0	1.7	97.68	97.57	97.36
LTM02	GR2121676	13069512	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		186.2	188.3	157.0	12.0	12.1	10.1	2.0	2.0	1.7	97.68	97.57	97.36
LTM02	GR2121677	13069665	27.6KV_3P_1/0_AL_XLPE	Cable	0.0	180.0000		186.2	188.3	157.0	12.0	12.1	10.1	6.6	6.7	5.6	97.68	97.57	97.36
LTM02	GR2121747	11359379	27.6KV_3P_1/0_ACSR_XLPE	Cable	53.1	180.0000		279.5	282.7	235.6	17.9	18.1	15.1	9.9	10.0	8.4	98.10	98.11	98.15
LTM02	GR2122018	13082249	DEFAULT	Cable	0.0	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122019	13082252	BUS27.6KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122020	13082498	BUS27.6KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122021	13082274	BUS27.6KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122022	13082503	BUS27.6KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122023	13082257	BUS27.6KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122115	18097320	27.6KV_3P_1/0_AL_XLPE	Cable	38.5	180.0000		93.0	94.1	78.4	6.0	6.0	5.0	3.3	3.4	2.8	97.51	97.67	98.25
LTM02	GR2120441	4031463	27.6KV_3P_Y556_AL	Overhead Line	8.2	730.0000		5781.9	5782.1	5783.8	362.9	363.0	363.1	49.7	49.7	49.7	99.97	99.97	99.97
LTM02	GR2120442	4031462	27.6KV_3P_Y556_AL	Overhead Line	13.7	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.97	99.97	99.97
LTM02	GR2120443	14731648	27.6KV_3P_Y556_AL	Overhead Line	8.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.97	99.97	99.97
LTM02	GR2120444	14731650	27.6KV_3P_Y556_AL	Overhead Line	4.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.97	99.97	99.97
LTM02	GR2120445	4045175	27.6KV_3P_Y556_AL	Overhead Line	38.5	730.0000		5781.7	5781.9	5783.5	362.9	363.0	363.1	49.7	49.7	49.7	99.95	99.95	99.95
LTM02	GR2120446	4045563	27.6KV_3P_Y556_AL	Overhead Line	51.5	730.0000		5780.4	5780.5	5782.2	362.9	363.0	363.1	49.7	49.7	49.7	99.91	99.91	99.91
LTM02	GR2120447	17993875	27.6KV_3P_N556_AL	Overhead Line	1.8	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.91	99.91	99.91
LTM02	GR2120448	17993870	27.6KV_3P_Y556_AL	Overhead Line	1.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.91	99.91	99.91
LTM02	GR2120449	17993876	27.6KV_3P_Y556_AL	Overhead Line	49.6	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.91	99.91	99.91
LTM02	GR2120450	17993893	27.6KV_3P_N556_AL	Overhead Line	10.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.91	99.91	99.91
LTM02	GR2120451	17993894	27.6KV_3P_Y556_AL	Overhead Line	5.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.91	99.91	99.91
LTM02	GR2120452	4046962	27.6KV_3P_Y556_AL	Overhead Line	49.6	730.0000		5778.6	5778.8	5780.5	362.9	363.0	363.1	49.7	49.7	49.7	99.88	99.88	99.88
LTM02	GR2120453	18108737	27.6KV_3P_Y556_AL	Overhead Line	51.2	730.0000		5776.9	5777.1	5778.8	363.0	363.0	363.1	49.7	49.7	49.7	99.85	99.85	99.85
LTM02	GR2120454	4046963	27.6KV_3P_Y556_AL	Overhead Line	44.2	730.0000		5775.1	5769.7	5777.0	363.0	362.6	363.1	49.7	49.7	49.7	99.83	99.83	99.83
LTM02	GR2120455	4046964	27.6KV_3P_Y556_AL	Overhead Line	68.1	730.0000		5773.6	5768.2	5775.5	363.0	362.6	363.1	49.7	49.7	49.7	99.79	99.79	99.79
LTM02	GR2120456	4046967	27.6KV_3P_Y556_AL	Overhead Line	67.6	730.0000		5771.3	5765.8	5773.1	363.0	362.6	363.1	49.7	49.7	49.7	99.75	99.75	99.75
LTM02	GR2120457	4046968	27.6KV_3P_Y556_AL	Overhead Line	68.1	730.0000		5769.0	5763.5	5770.8	363.0	362.6	363.1	49.7	49.7	49.7	99.70	99.70	99.70
LTM02	GR2120458	4046969	27.6KV_3P_Y556_AL	Overhead Line	66.5	730.0000		5766.6	5761.2	5768.5	363.0	362.6	363.1	49.7	49.7	49.7	99.66	99.66	99.66
LTM02	GR2120459	4046970	27.6KV_3P_Y556_AL	Overhead Line	66.8	730.0000		5764.3	5758.9	5766.2	363.0	362.6	363.1	49.7	49.7	49.7	99.62	99.62	99.62
LTM02	GR2120460	4046971	27.6KV_3P_Y556_AL	Overhead Line	66.6	730.0000		5762.0	5756.6	5763.9	363.0	362.6	363.1	49.7	49.7	49.7	99.58	99.58	99.58
LTM02	GR2120461	4046972	27.6KV_3P_Y556_AL	Overhead Line	66.3	730.0000		5759.8	5754.3	5761.6	363.0	362.6	363.1	49.7	49.7	49.7	99.54	99.54	99.54
LTM02	GR2120462	4046973	27.6KV_3P_Y556_AL	Overhead Line	75.4	730.0000		5757.5	5752.1	5759.3	363.0	362.6	363.1	49.7	49.7	49.7	99.50	99.50	99.50
LTM02	GR2120463	16489329	27.6KV_3P_Y556_AL	Overhead Line	60.1	730.0000		5754.9	5749.5	5756.7	363.0	362.6	363.1	49.7	49.7	49.7	99.46	99.46	99.46
LTM02	GR2120464	4045089	27.6KV_3P_Y556_AL	Overhead Line	3.8	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.46	99.46	99.46
LTM02	GR2120465	4046192	27.6KV_3P_Y556_AL	Overhead Line	57.5	730.0000		5752.8	5747.4	5754.7	363.0	362.6	363.1	49.7	49.7	49.7	99.43	99.43	99.43
LTM02	GR2120466	4046974	27.6KV_3P_Y556_AL	Overhead Line	29.5	730.0000		5750.9	5745.5	5752.7	363.0	362.6	363.1	49.7	49.7	49.7	99.41	99.41	99.41
LTM02	GR2120467	11607622	27.6KV_3P_N556_AL	Overhead Line	13.7	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.41	99.41	99.41
LTM02	GR2120468	13065090	27.6KV_3P_Y556_AL	Overhead Line	4.1	730.0000		5749.9	5744.5	5751.7	363.0	362.6	363.1	49.7	49.7	49.7	99.41	99.41	99.41
LTM02	GR2120469	11607677	27.6KV_3P_N556_AL	Overhead Line	6.6	730.0000		5749.7	5744.3	5751.6	363.0	362.6	363.1	49.7	49.7	49.7	99.40	99.40	99.40
LTM02	GR2120470	11607678	27.6KV_3P_N556_AL	Overhead Line	8.0	730.0000		5749.5	5744.1	5751.3	363.0	362.6	363.1	49.7	49.7	49.7	99.40	99.40	99.40
LTM02	GR2120471	13065092	27.6KV_3P_Y556_AL	Overhead Line	3.0	730.0000		5749.2	5743.8	5751.1	363.0	362.6	363.1	49.7	49.7	49.7	99.40	99.40	99.40
LTM02	GR2120472	11607653	27.6KV_3P_N556_AL	Overhead Line	13.9	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.40	99.40	99.40
LTM02	GR2120473	13065093	27.6KV_3P_Y556_AL	Overhead Line	43.4	730.0000		5749.1	5743.7	5751.0	363.0	362.6	363.1	49.7	49.7	49.7	99.37	99.37	99.37
LTM02	GR2120474	4044922	27.6KV_3P_Y556_AL	Overhead Line	62.5	730.0000		5747.7	5742.3	5749.5	363.0	362.6	363.1	49.7	49.7	49.7	99.33	99.33	99.33
LTM02	GR2120475	4043884	27.6KV_3P_Y556_AL	Overhead Line	68.4	730.0000		5745.5	5740.1	5747.3	363.0	362.6	363.1	49.7	49.7	49.7	99.29	99.29	99.29
LTM02	GR2120476	4043886	27.6KV_3P_Y556_AL	Overhead Line	64.0	730.0000		5743.2	5737.8	5745.0	363.0	362.6	363.1	49.7	49.7	49.7	99.26	99.26	99.25
LTM02	GR2120477	4043888	27.6KV_3P_Y556_AL	Overhead Line	54.2	730.0000		5741.0	5735.6	5742.8	363.0	362.6	363.1	49.7	49.7	49.7	99.22	99.22	99.22
LTM02	GR2120478	4047678	27.6KV_3P_Y556_AL	Overhead Line	53.0	730.0000		5739.1	5733.8	5741.0	363.0	362.6	363.1	49.7	49.7	49.7	99.19	99.19	99.19
LTM02	GR2120479	4043892	27.6KV_3P_Y556_AL	Overhead Line	52.2	730.0000		5737.3	5731.9	5739.1	363.0	362.6	363.1	49.7	49.7	49.7	99.16	99.16	99.16
LTM02	GR2120480	4043894	27.6KV_3P_Y556_AL	Overhead Line	52.3	730.0000		5735.6	5730.2	5737.4	363.0	362.6	363.1	49.7	49.7	49.7	99.13	99.13	99.13

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2120481	4043895	27.6KV_3P_Y556_AL	Overhead Line	64.7	730.0000		5733.8	5728.4	5735.6	363.0	362.6	363.1	49.7	49.7	49.7	99.09	99.09	99.09
LTM02	GR2120482	4044051	27.6KV_3P_Y556_AL	Overhead Line	69.2	730.0000		5731.6	5726.2	5733.4	363.0	362.6	363.1	49.7	49.7	49.7	99.05	99.05	99.05
LTM02	GR2120483	4044052	27.6KV_3P_Y556_AL	Overhead Line	66.3	730.0000		5729.2	5723.8	5731.0	363.0	362.7	363.1	49.7	49.7	49.7	99.01	99.01	99.01
LTM02	GR2120484	4044053	27.6KV_3P_Y556_AL	Overhead Line	67.9	730.0000		5727.0	5721.6	5728.7	363.0	362.7	363.1	49.7	49.7	49.7	98.97	98.97	98.97
LTM02	GR2120485	4044055	27.6KV_3P_Y556_AL	Overhead Line	64.5	730.0000		5724.7	5719.3	5726.4	363.0	362.7	363.1	49.7	49.7	49.7	98.93	98.93	98.93
LTM02	GR2120486	4044056	27.6KV_3P_Y556_AL	Overhead Line	62.4	730.0000		5722.5	5717.1	5724.2	363.0	362.7	363.1	49.7	49.7	49.7	98.89	98.89	98.89
LTM02	GR2120487	4044057	27.6KV_3P_Y556_AL	Overhead Line	66.1	730.0000		5720.3	5715.0	5722.1	363.0	362.7	363.1	49.7	49.7	49.7	98.85	98.85	98.85
LTM02	GR2120488	4044058	27.6KV_3P_Y556_AL	Overhead Line	58.7	730.0000		5718.1	5712.7	5719.9	363.0	362.7	363.1	49.7	49.7	49.7	98.82	98.82	98.82
LTM02	GR2120489	4044059	27.6KV_3P_Y556_AL	Overhead Line	53.8	730.0000		5716.1	5702.3	5717.9	363.0	362.1	363.1	49.7	49.6	49.7	98.79	98.79	98.79
LTM02	GR2120490	4044060	27.6KV_3P_Y556_AL	Overhead Line	47.3	730.0000		5714.3	5700.5	5716.0	363.0	362.1	363.1	49.7	49.6	49.7	98.76	98.76	98.76
LTM02	GR2120491	4044061	27.6KV_3P_Y556_AL	Overhead Line	51.7	730.0000		5712.7	5698.9	5714.4	363.0	362.1	363.1	49.7	49.6	49.7	98.73	98.73	98.73
LTM02	GR2120492	4044062	27.6KV_3P_Y556_AL	Overhead Line	62.6	730.0000		5710.9	5697.1	5712.7	363.0	362.1	363.1	49.7	49.6	49.7	98.69	98.69	98.69
LTM02	GR2120493	4042454	27.6KV_3P_Y556_AL	Overhead Line	62.7	730.0000		5708.8	5695.0	5710.5	363.0	362.1	363.1	49.7	49.6	49.7	98.65	98.65	98.65
LTM02	GR2120494	4042455	27.6KV_3P_Y556_AL	Overhead Line	69.7	730.0000		5706.7	5678.9	5708.4	363.0	361.2	363.1	49.7	49.5	49.7	98.61	98.61	98.61
LTM02	GR2120495	4042457	27.6KV_3P_Y556_AL	Overhead Line	65.6	730.0000		5676.5	5648.4	5682.5	361.2	359.5	361.6	49.5	49.2	49.5	98.57	98.57	98.57
LTM02	GR2120496	4042458	27.6KV_3P_Y556_AL	Overhead Line	65.6	730.0000		5674.3	5646.2	5680.3	361.2	359.5	361.6	49.5	49.2	49.5	98.54	98.54	98.53
LTM02	GR2120497	4042459	27.6KV_3P_Y556_AL	Overhead Line	57.1	730.0000		5672.1	5644.1	5678.1	361.2	359.5	361.6	49.5	49.2	49.5	98.50	98.50	98.50
LTM02	GR2120498	4042460	27.6KV_3P_Y556_AL	Overhead Line	71.1	730.0000		5656.3	5642.2	5676.2	360.4	359.5	361.6	49.4	49.2	49.5	98.46	98.46	98.46
LTM02	GR2120499	4042461	27.6KV_3P_Y556_AL	Overhead Line	69.1	730.0000		5654.0	5639.8	5673.8	360.4	359.5	361.6	49.4	49.2	49.5	98.42	98.42	98.42
LTM02	GR2120500	4042462	27.6KV_3P_Y556_AL	Overhead Line	55.1	730.0000		5651.7	5637.5	5671.5	360.4	359.5	361.6	49.4	49.2	49.5	98.39	98.39	98.38
LTM02	GR2120501	4044693	27.6KV_3P_Y556_AL	Overhead Line	61.5	730.0000		5649.9	5635.7	5669.6	360.4	359.5	361.6	49.4	49.2	49.5	98.35	98.35	98.35
LTM02	GR2120502	4046842	27.6KV_3P_Y556_AL	Overhead Line	60.2	730.0000		5647.8	5633.7	5667.5	360.4	359.5	361.6	49.4	49.2	49.5	98.32	98.32	98.31
LTM02	GR2120503	4042613	27.6KV_3P_Y556_AL	Overhead Line	57.2	730.0000		5645.9	5631.7	5665.5	360.4	359.5	361.6	49.4	49.2	49.5	98.28	98.28	98.28
LTM02	GR2120504	14626284	27.6KV_3P_Y556_AL	Overhead Line	2.0	730.0000		5644.0	5629.8	5663.6	360.4	359.5	361.7	49.4	49.2	49.5	98.28	98.28	98.28
LTM02	GR2120505	4042612	27.6KV_3P_Y556_AL	Overhead Line	57.8	730.0000		5630.0	5629.7	5663.5	359.5	359.5	361.7	49.2	49.2	49.5	98.25	98.25	98.24
LTM02	GR2120506	4042611	27.6KV_3P_Y556_AL	Overhead Line	39.1	730.0000		5628.1	5627.8	5661.6	359.5	359.5	361.7	49.2	49.2	49.5	98.23	98.23	98.22
LTM02	GR2120507	4042610	27.6KV_3P_Y556_AL	Overhead Line	26.6	730.0000		5626.9	5626.5	5660.3	359.5	359.5	361.7	49.2	49.2	49.5	98.21	98.21	98.20
LTM02	GR2120508	4044762	27.6KV_3P_Y556_AL	Overhead Line	50.3	730.0000		5626.0	5625.6	5659.4	359.5	359.5	361.7	49.2	49.2	49.5	98.18	98.18	98.17
LTM02	GR2120509	4027939	JUMPER	Overhead Line	0.0	600.0000		4505.9	4295.6	4865.2	288.0	274.6	311.0	48.0	45.8	51.8	98.18	98.18	98.17
LTM02	GR2120510	4043364	27.6KV_3P_Y556_AL	Overhead Line	30.6	730.0000		4505.9	4295.6	4865.2	288.0	274.6	311.0	39.5	37.6	42.6	98.17	98.17	98.16
LTM02	GR2120511	4043363	27.6KV_3P_Y556_AL	Overhead Line	20.0	730.0000		4505.4	4295.0	4864.4	288.0	274.6	311.0	39.5	37.6	42.6	98.16	98.16	98.15
LTM02	GR2120512	4031236	JUMPER	Overhead Line	0.0	600.0000		278.3	274.1	273.7	17.8	17.5	17.5	3.0	2.9	2.9	98.16	98.16	98.15
LTM02	GR2120513	4043175	27.6KV_3P_Y556_AL	Overhead Line	18.2	730.0000		278.3	274.1	273.7	17.8	17.5	17.5	2.4	2.4	2.4	98.16	98.16	98.14
LTM02	GR2120514	4043978	27.6KV_3P_Y1/0_AL	Overhead Line	43.7	530.0000		278.3	274.1	273.7	17.8	17.5	17.5	3.4	3.3	3.3	98.16	98.16	98.14
LTM02	GR2120515	4043979	27.6KV_3P_Y1/0_AL	Overhead Line	39.0	530.0000		250.5	274.1	273.7	16.0	17.5	17.5	3.0	3.3	3.3	98.16	98.15	98.14
LTM02	GR2120516	4047237	27.6KV_3P_Y1/0_AL	Overhead Line	12.7	530.0000		250.5	274.2	273.7	16.0	17.5	17.5	3.0	3.3	3.3	98.16	98.15	98.14
LTM02	GR2120517	4028197	JUMPER	Overhead Line	0.0	600.0000		250.5	274.2	273.7	16.0	17.5	17.5	2.7	2.9	2.9	98.16	98.15	98.14
LTM02	GR2120518	4043981	27.6KV_3P_Y1/0_AL	Overhead Line	27.3	530.0000		250.5	274.2	273.7	16.0	17.5	17.5	3.0	3.3	3.3	98.16	98.15	98.14
LTM02	GR2120523	4047275	27.6KV_3P_Y1/0_AL	Overhead Line	3.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.16	98.15	98.14
LTM02	GR2120524	4042579	27.6KV_3P_Y1/0_AL	Overhead Line	3.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.16	98.15	98.14
LTM02	GR2120527	4043564	27.6KV_3P_Y556_AL	Overhead Line	3.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.16	98.16	98.15
LTM02	GR2120528	4043176	27.6KV_3P_Y556_AL	Overhead Line	5.6	730.0000		4226.8	4020.8	4590.5	270.2	257.1	293.5	37.0	35.2	40.2	98.16	98.16	98.14
LTM02	GR2120529	4043362	27.6KV_3P_Y556_AL	Overhead Line	70.0	730.0000		4226.7	4020.7	4590.3	270.2	257.1	293.5	37.0	35.2	40.2	98.13	98.13	98.11
LTM02	GR2120530	4043361	27.6KV_3P_Y556_AL	Overhead Line	49.3	730.0000		4211.7	4019.5	4588.6	269.3	257.1	293.5	36.9	35.2	40.2	98.11	98.10	98.08
LTM02	GR2120531	4044582	27.6KV_3P_Y556_AL	Overhead Line	5.3	730.0000		4210.9	4018.7	4587.5	269.3	257.1	293.5	36.9	35.2	40.2	98.11	98.10	98.08
LTM02	GR2120532	4028170	JUMPER	Overhead Line	0.0	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.10	98.08
LTM02	GR2120533	4044583	27.6KV_3P_Y556_AL	Overhead Line	5.1	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.10	98.08
LTM02	GR2120534	4044584	27.6KV_3P_Y556_AL	Overhead Line	41.4	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.11	98.10	98.08
LTM02	GR2120537	4043360	27.6KV_3P_Y556_AL	Overhead Line	52.2	730.0000		4210.8	4018.6	4587.3	269.3	257.1	293.5	36.9	35.2	40.2	98.09	98.08	98.05
LTM02	GR2120538	4043359	27.6KV_3P_Y556_AL	Overhead Line	41.7	730.0000		4210.0	4017.7	4586.1	269.3	257.1	293.5	36.9	35.2	40.2	98.08	98.06	98.03
LTM02	GR2120539	13126218	27.6KV_3P_Y3/0_ACSR	Overhead Line	3.9	530.0000		195.0	197.2	164.4	12.5	12.6	10.5	2.4	2.4	2.0	98.08	98.06	98.03
LTM02	GR2120540	13127672	27.6KV_3P_Y3/0_ACSR	Overhead Line	25.4	530.0000		195.0	197.2	164.4	12.5	12.6	10.5	2.4	2.4	2.0	98.07	98.06	98.03
LTM02	GR2120541	13126228	27.6KV_3P_Y3/0_ACSR	Overhead Line	19.2	530.0000		195.0	197.2	164.4	12.5	12.6	10.5	2.4	2.4	2.0	98.07	98.06	98.03
LTM02	GR2120542	13126220	27.6KV_3P_Y3/0_ACSR	Overhead Line	14.3	530.0000		195.0	197.2	164.4	12.5	12.6	10.5	2.4	2.4	2.0	98.07	98.06	98.03
LTM02	GR2120543	13126200	27.6KV_3P_Y3/0_ACSR	Overhead Line	7.4	530.0000		195.0	197.2	164.4	12.5	12.6	10.5	2.4	2.4	2.0	98.07	98.06	98.03
LTM02	GR2120544	13127678	27.6KV_3P_Y3/0_ACSR	Overhead Line	77.4	530.0000		55.7	56.3	46.9	3.6	3.6	3.0	0.7	0.7	0.6	98.07	98.06	98.03
LTM02	GR2120545	13127679	27.6KV_3P_Y3/0_ACSR	Overhead Line	77.8	530.0000		55.7	56.3	46.9	3.6	3.6	3.0	0.7	0.7	0.6	98.07	98.06	98.03
LTM02	GR2120546	13127681	27.6KV_3P_Y3/0_ACSR	Overhead Line	58.2	530.0000		55.7	56.4	47.0	3.6	3.6	3.0	0.7	0.7	0.6	98.07	98.06	98.03
LTM02	GR2120547	13127682	27.6KV_3P_Y3/0_ACSR	Overhead Line	56.5	530.0000		55.8	56.4	47.0	3.6	3.6	3.0	0.7	0.7	0.6	98.07	98.06	98.02
LTM02	GR2120548	13127684	27.6KV_3P_Y3/0_ACSR	Overhead Line	57.9	530.0000		55.8	56.4	47.0	3.6	3.6	3.0	0.7	0.7	0.6	98.07	98.06	98.02
LTM02	GR2120549	13127686	27.6KV_3P_Y3/0_ACSR	Overhead Line	59.0	530.0000		55.8	56.4	47.0	3.6	3.6	3.0	0.7	0.7	0.6	98.07	98.06	98.02
LTM02	GR2120550	13127687	27.6KV_3P_Y3/0_ACSR	Overhead Line	77.0	530.0000		55.8	56.5	47.1	3.6	3.6	3.0	0.7	0.7	0.6	98.07	98.06	98.02
LTM02	GR2120551	13126095	27.6KV_3P_Y3/0_ACSR	Overhead Line	18.0	530.0000		55.9	56.5	47.1	3.6	3.6	3.0	0.7	0.7	0.6	98.07	98.06	98.02
LTM02	GR2120554	4044573	27.6KV_3P_Y1/0_AL	Overhead Line	43.4	530.0000		139.3	140.9	117.5	8.9	9.0	7.5	1.7	1.7	1.4	98.07	98.06	98.03
LTM02	GR2120555	4044574	27.6KV_3P_Y1/0_AL	Overhead Line	40.2	530.0000		139.3	140.9	117.5	8.9	9.0	7.5	1.7	1.7	1.4	98.07	98.06	98.03
LTM02	GR2120558	4043174	27.6KV_3P_Y556_AL	Overhead Line	33.2	730.0000		27.8	28.2	23.5	1.8	1.8	1.5	0.2	0.2	0.2	98.08	98.06	98.03
LTM02	GR2120561	4043358	27.6KV_3P_Y556_AL	Overhead Line	54.3	730.0000		3986.6	3791.6	4397.2	255.1	242.6	281.5	34.9	33.2	38.6	98.06	98.04	98.00
LTM02	GR2120562	18167173	27.6KV_3P_Y556_AL	Overhead Line	10.2	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.06	98.04	98.00
LTM02	GR2120563	18167181	27.6KV_3P_N556_AL	Overhead Line	5.1	730.0000		3985.8	3790.8	4396.0	255.1	242.6	281.5	34.9	33.2	38.6	98.05	98.04	98.00
LTM02	GR2120564	18167177	27.6KV_3P_N556_AL	Overhead Line	5.1	730.0000		3985.7	3790.7	4395.9	255.1	242.6	281.5	34.9	33.2	38.6	98.05	98.03	97.99
LTM02	GR2120565	18167168	27.6KV_3P_Y556_AL	Overhead Line	10.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.03	97.99
LTM02	GR2120566	18984606	27.6KV_3P_Y556_AL	Overhead Line	4.4	730.0000		3985.7	3790.6	4395.8	255.1	242.6	281.5	34.9	33.2	38.6	98.05	98.03	97.99

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2120567	4043357	27.6KV_3P_Y556_AL	Overhead Line	25.5	730.0000		3985.6	3790.5	4395.7	255.1	242.7	281.5	34.9	33.2	38.6	98.04	98.02	97.98
LTM02	GR2120568	4043173	27.6KV_3P_Y556_AL	Overhead Line	25.4	730.0000		265.0	317.3	199.9	17.0	20.3	12.8	2.3	2.8	1.8	98.04	98.02	97.98
LTM02	GR2120569	4043581	27.6KV_3P_Y556_AL	Overhead Line	26.7	730.0000		265.0	317.3	199.9	17.0	20.3	12.8	2.3	2.8	1.8	98.04	98.02	97.98
LTM02	GR2120570	4043583	27.6KV_3P_Y1/0_AL	Overhead Line	33.2	530.0000		265.0	317.3	200.0	17.0	20.3	12.8	3.2	3.8	2.4	98.04	98.02	97.98
LTM02	GR2120571	4046262	27.6KV_3P_Y1/0_AL	Overhead Line	33.6	530.0000		265.0	317.3	200.0	17.0	20.3	12.8	3.2	3.8	2.4	98.04	98.02	97.98
LTM02	GR2120572	4043584	27.6KV_3P_Y1/0_AL	Overhead Line	30.6	530.0000		265.1	317.3	200.0	17.0	20.3	12.8	3.2	3.8	2.4	98.04	98.02	97.98
LTM02	GR2120573	4043585	27.6KV_3P_Y1/0_AL	Overhead Line	30.2	530.0000		265.1	261.1	200.0	17.0	16.7	12.8	3.2	3.2	2.4	98.03	98.02	97.98
LTM02	GR2120574	4047231	27.6KV_3P_Y1/0_AL	Overhead Line	36.2	530.0000		223.2	218.7	164.7	14.3	14.0	10.5	2.7	2.6	2.0	98.03	98.02	97.98
LTM02	GR2120575	4043586	27.6KV_3P_Y1/0_AL	Overhead Line	35.3	530.0000		223.2	218.7	164.7	14.3	14.0	10.5	2.7	2.6	2.0	98.03	98.01	97.98
LTM02	GR2120576	4043587	27.6KV_3P_Y1/0_AL	Overhead Line	23.5	530.0000		223.2	218.7	164.7	14.3	14.0	10.5	2.7	2.6	2.0	98.03	98.01	97.98
LTM02	GR2120577	4043588	27.6KV_3P_Y1/0_AL	Overhead Line	33.1	530.0000		223.2	218.8	164.7	14.3	14.0	10.6	2.7	2.6	2.0	98.03	98.01	97.97
LTM02	GR2120578	4043589	27.6KV_3P_Y1/0_AL	Overhead Line	38.2	530.0000		195.4	218.8	164.7	12.5	14.0	10.6	2.4	2.6	2.0	98.03	98.01	97.97
LTM02	GR2120579	4043590	27.6KV_3P_Y1/0_AL	Overhead Line	37.0	530.0000		195.4	218.8	164.7	12.5	14.0	10.6	2.4	2.6	2.0	98.03	98.01	97.97
LTM02	GR2120580	4043336	27.6KV_3P_Y1/0_AL	Overhead Line	32.2	530.0000		195.4	218.8	164.8	12.5	14.0	10.6	2.4	2.6	2.0	98.03	98.01	97.97
LTM02	GR2120581	4043337	27.6KV_3P_Y1/0_AL	Overhead Line	43.3	530.0000		153.6	176.4	129.4	9.8	11.3	8.3	1.9	2.1	1.6	98.03	98.01	97.97
LTM02	GR2120582	15607922	27.6KV_3P_Y1/0_CU	Overhead Line	4.9	530.0000		55.9	56.5	47.1	3.6	3.6	3.0	0.7	0.7	0.6	98.03	98.01	97.97
LTM02	GR2120587	4043338	27.6KV_3P_Y1/0_AL	Overhead Line	41.7	530.0000		97.7	119.9	82.4	6.3	7.7	5.3	1.2	1.4	1.0	98.03	98.01	97.97
LTM02	GR2120588	4043339	27.6KV_3P_Y1/0_AL	Overhead Line	50.8	530.0000		41.9	63.4	35.3	2.7	4.1	2.3	0.5	0.8	0.4	98.02	98.01	97.97
LTM02	GR2120589	15652748	27.6KV_3P_Y1/0_AL	Overhead Line	26.0	530.0000		0.1	21.1	0.1	0.0	1.3	0.0	0.0	0.3	0.0	98.02	98.01	97.97
LTM02	GR2120590	4043170	27.6KV_3P_Y1/0_AL	Overhead Line	36.6	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.02	98.01	97.97
LTM02	GR2120595	4046134	27.6KV_3P_Y1/0_AL	Overhead Line	2.5	530.0000		55.9	56.5	47.1	3.6	3.6	3.0	0.7	0.7	0.6	98.03	98.01	97.97
LTM02	GR2120608	4043355	27.6KV_3P_Y556_AL	Overhead Line	44.3	730.0000		3720.3	3472.9	4195.2	238.1	222.3	268.7	32.6	30.5	36.8	98.03	98.01	97.96
LTM02	GR2120609	4043354	27.6KV_3P_Y556_AL	Overhead Line	72.2	730.0000		3719.7	3472.3	4194.3	238.1	222.3	268.7	32.6	30.5	36.8	98.01	97.98	97.92
LTM02	GR2120610	4043353	27.6KV_3P_Y556_AL	Overhead Line	53.6	730.0000		3705.1	3471.4	4192.8	237.2	222.3	268.7	32.5	30.5	36.8	97.99	97.96	97.89
LTM02	GR2120611	4043352	27.6KV_3P_Y556_AL	Overhead Line	56.3	730.0000		3704.5	3470.7	4191.7	237.2	222.3	268.7	32.5	30.5	36.8	97.97	97.94	97.87
LTM02	GR2120612	4043351	27.6KV_3P_Y556_AL	Overhead Line	22.0	730.0000		3703.8	3469.9	4190.5	237.2	222.3	268.7	32.5	30.5	36.8	97.97	97.93	97.86
LTM02	GR2120613	4042964	27.6KV_3P_Y556_AL	Overhead Line	28.5	730.0000		148.5	194.0	168.0	9.5	12.4	10.8	1.3	1.7	1.5	97.97	97.93	97.86
LTM02	GR2120614	4042965	27.6KV_3P_Y1/0_AL	Overhead Line	36.6	530.0000		148.5	194.0	168.0	9.5	12.4	10.8	1.8	2.3	2.0	97.96	97.93	97.85
LTM02	GR2120615	4042967	27.6KV_3P_Y1/0_AL	Overhead Line	42.4	530.0000		148.5	180.0	168.0	9.5	11.5	10.8	1.8	2.2	2.0	97.96	97.93	97.85
LTM02	GR2120616	4042968	27.6KV_3P_Y1/0_AL	Overhead Line	25.9	530.0000		120.7	151.8	144.6	7.7	9.7	9.3	1.5	1.8	1.7	97.96	97.93	97.85
LTM02	GR2120617	4042969	27.6KV_3P_Y1/0_AL	Overhead Line	37.1	530.0000		120.7	151.9	144.6	7.7	9.7	9.3	1.5	1.8	1.7	97.96	97.92	97.85
LTM02	GR2120618	4042970	27.6KV_3P_Y1/0_AL	Overhead Line	35.0	530.0000		120.7	151.9	144.6	7.7	9.7	9.3	1.5	1.8	1.7	97.96	97.92	97.85
LTM02	GR2120619	4042971	27.6KV_3P_Y1/0_AL	Overhead Line	36.5	530.0000		120.7	151.9	144.6	7.7	9.7	9.3	1.5	1.8	1.7	97.96	97.92	97.85
LTM02	GR2120620	4042972	27.6KV_3P_Y1/0_AL	Overhead Line	36.6	530.0000		120.7	151.9	121.2	7.7	9.7	7.8	1.5	1.8	1.5	97.96	97.92	97.85
LTM02	GR2120621	4042973	27.6KV_3P_Y1/0_AL	Overhead Line	56.4	530.0000		120.8	151.9	121.2	7.7	9.7	7.8	1.5	1.8	1.5	97.96	97.92	97.85
LTM02	GR2120622	4042974	27.6KV_3P_Y1/0_AL	Overhead Line	55.3	530.0000		120.8	151.9	121.2	7.7	9.7	7.8	1.5	1.8	1.5	97.96	97.92	97.85
LTM02	GR2120623	4042975	27.6KV_3P_Y1/0_AL	Overhead Line	16.2	530.0000		120.8	151.9	121.2	7.7	9.7	7.8	1.5	1.8	1.5	97.96	97.92	97.85
LTM02	GR2120624	4042976	27.6KV_3P_Y1/0_AL	Overhead Line	19.7	530.0000		120.8	143.5	121.3	7.7	9.2	7.8	1.5	1.7	1.5	97.96	97.92	97.85
LTM02	GR2120625	4043133	27.6KV_3P_Y1/0_AL	Overhead Line	6.8	530.0000		120.8	143.5	121.3	7.7	9.2	7.8	1.5	1.7	1.5	97.96	97.92	97.85
LTM02	GR2120626	4031238	JUMPER	Overhead Line	0.0	600.0000		83.7	92.0	90.0	5.4	5.9	5.8	0.9	1.0	1.0	97.96	97.92	97.85
LTM02	GR2120627	4042379	27.6KV_3P_Y1/0_AL	Overhead Line	6.4	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.96	97.92	97.85
LTM02	GR2120628	4046269	27.6KV_3P_Y1/0_AL	Overhead Line	45.7	530.0000		83.7	92.0	90.0	5.4	5.9	5.8	1.0	1.1	1.1	97.96	97.92	97.85
LTM02	GR2120629	13490538	27.6KV_3P_Y1/0_AL	Overhead Line	3.2	530.0000		83.7	92.0	90.0	5.4	5.9	5.8	1.0	1.1	1.1	97.96	97.92	97.85
LTM02	GR2120630	4042380	27.6KV_3P_Y1/0_AL	Overhead Line	39.7	530.0000		83.7	92.0	90.0	5.4	5.9	5.8	1.0	1.1	1.1	97.96	97.92	97.85
LTM02	GR2120635	4042977	27.6KV_3P_Y1/0_AL	Overhead Line	30.6	530.0000		37.2	51.6	31.3	2.4	3.3	2.0	0.4	0.6	0.4	97.96	97.92	97.85
LTM02	GR2120636	4042978	27.6KV_3P_Y1/0_AL	Overhead Line	71.2	530.0000		37.2	51.6	31.3	2.4	3.3	2.0	0.4	0.6	0.4	97.96	97.92	97.85
LTM02	GR2120637	4042979	27.6KV_3P_Y1/0_AL	Overhead Line	41.7	530.0000		37.2	37.6	31.4	2.4	2.4	2.0	0.4	0.5	0.4	97.96	97.92	97.85
LTM02	GR2120638	4043132	27.6KV_3P_Y1/0_AL	Overhead Line	35.3	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.96	97.92	97.85
LTM02	GR2120651	4043350	27.6KV_3P_Y556_AL	Overhead Line	46.6	730.0000		3555.1	3275.8	4022.0	227.7	209.9	257.9	31.2	28.8	35.3	97.95	97.91	97.83
LTM02	GR2120652	4043349	27.6KV_3P_Y556_AL	Overhead Line	69.2	730.0000		3554.6	3275.3	4021.1	227.7	209.9	257.9	31.2	28.8	35.3	97.93	97.89	97.80
LTM02	GR2120653	4043136	27.6KV_3P_Y556_AL	Overhead Line	51.8	730.0000		139.2	140.8	117.4	8.9	9.0	7.5	1.2	1.2	1.0	97.93	97.89	97.80
LTM02	GR2120655	18079419	DEFAULT	Overhead Line	64.8	1000.0000		139.3	140.9	117.4	8.9	9.0	7.5	0.9	0.9	0.8	97.93	97.88	97.80
LTM02	GR2120656	18079418	DEFAULT	Overhead Line	119.0	1000.0000		139.3	140.9	117.5	8.9	9.0	7.5	0.9	0.9	0.8	97.92	97.88	97.79
LTM02	GR2120657	18079417	27.6KV_3P_N556_ASC	Overhead Line	58.6	730.0000		139.3	140.9	117.5	8.9	9.0	7.5	1.2	1.2	1.0	97.92	97.88	97.79
LTM02	GR2120658	18001964	DEFAULT	Overhead Line	50.4	1000.0000		139.3	141.0	117.5	8.9	9.0	7.5	0.9	0.9	0.8	97.92	97.87	97.79
LTM02	GR2120663	4043348	27.6KV_3P_Y556_AL	Overhead Line	54.8	730.0000		3414.7	3133.6	3902.4	218.8	200.9	250.4	30.0	27.5	34.3	97.92	97.87	97.77
LTM02	GR2120664	4043347	27.6KV_3P_Y556_AL	Overhead Line	54.0	730.0000		3414.2	3133.0	3901.4	218.8	200.9	250.4	30.0	27.5	34.3	97.90	97.85	97.75
LTM02	GR2120665	4043579	27.6KV_3P_Y1/0_AL	Overhead Line	5.1	530.0000		27.8	28.1	23.5	1.8	1.8	1.5	0.3	0.3	0.3	97.90	97.85	97.75
LTM02	GR2120666	13968795	27.6KV_3P_Y1/0_AL	Overhead Line	20.5	530.0000		27.8	28.1	23.5	1.8	1.8	1.5	0.3	0.3	0.3	97.90	97.85	97.75
LTM02	GR2120667	4043580	27.6KV_3P_Y1/0_AL	Overhead Line	48.5	530.0000		27.8	28.1	23.5	1.8	1.8	1.5	0.3	0.3	0.3	97.90	97.85	97.75
LTM02	GR2120668	13968745	27.6KV_3P_Y1/0_AL	Overhead Line	36.9	530.0000		27.8	28.2	23.5	1.8	1.8	1.5	0.3	0.3	0.3	97.90	97.85	97.75
LTM02	GR2120672	4045493	27.6KV_3P_Y556_AL	Overhead Line	64.8	730.0000		3385.8	3104.3	3876.9	217.0	199.1	248.9	29.7	27.3	34.1	97.88	97.83	97.72
LTM02	GR2120673	14627169	27.6KV_3P_Y556_AL	Overhead Line	17.1	730.0000		3385.3	3103.7	3875.7	217.0	199.1	248.9	29.7	27.3	34.1	97.88	97.82	97.71
LTM02	GR2120674	4043346	27.6KV_3P_Y556_AL	Overhead Line	53.6	730.0000		3385.1	3103.5	3875.4	217.0	199.1	248.9	29.7	27.3	34.1	97.86	97.80	97.68
LTM02	GR2120675	4043345	27.6KV_3P_Y556_AL	Overhead Line	50.7	730.0000		3342.7	3060.6	3839.1	214.4	196.4	246.6	29.4	26.9	33.8	97.85	97.79	97.66
LTM02	GR2120676	4043343	27.6KV_3P_Y556_AL	Overhead Line	77.0	730.0000		3328.4	3046.0	3826.5	213.5	195.5	245.9	29.2	26.8	33.7	97.83	97.76	97.62
LTM02	GR2120677	4043344	27.6KV_3P_Y556_AL	Overhead Line	75.6	730.0000		3327.7	3045.2	3801.6	213.5	195.5	244.4	29.2	26.8	33.5	97.81	97.74	97.59
LTM02	GR2120678	4032387	27.6KV_3P_Y556_AL	Overhead Line	79.0	730.0000		3327.1	3044.5	3800.3	213.5	195.5	244.4	29.2	26.8	33.5	97.79	97.71	97.55
LTM02	GR2120679	4033869	27.6KV_3P_Y556_AL	Overhead Line	2.8	730.0000		3326.4	3043.7	3798.9	213.5	195.5	244.4	29.2	26.8	33.5	97.79	97.71	97.55
LTM02	GR2120680	4027964	JUMPER	Overhead Line	0.0	600.0000		27.8	28.2	23.5	1.8	1.8	1.5	0.3	0.3	0.3	97.79	97.71	97.55
LTM02	GR2120681	4033870	27.6KV_3P_Y556_AL	Overhead Line	1.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.79	97.71	97.55
LTM02	GR2120682	4033871	27.6KV_3P_Y556_AL	Overhead Line	12.2	730.0000		27.8	28.2	23.5	1.8	1.8	1.5	0.2	0.2	0.2	97.79	97.71	97.55

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2120683	4033872	27.6KV_3P_Y556_AL	Overhead Line	34.2	730.0000		27.8	28.2	23.5	1.8	1.8	1.5	0.2	0.2	0.2	97.79	97.71	97.55
LTM02	GR2120686	4045465	27.6KV_3P_Y556_AL	Overhead Line	72.5	730.0000		3298.5	3015.5	3775.4	211.7	193.7	242.9	29.0	26.5	33.3	97.77	97.69	97.52
LTM02	GR2120687	4032386	27.6KV_3P_Y556_AL	Overhead Line	76.4	730.0000		3297.9	3014.8	3774.1	211.7	193.7	242.9	29.0	26.5	33.3	97.75	97.66	97.48
LTM02	GR2120688	4032385	27.6KV_3P_Y556_AL	Overhead Line	75.4	730.0000		3297.3	3014.1	3772.8	211.7	193.7	242.9	29.0	26.5	33.3	97.73	97.64	97.45
LTM02	GR2120689	4032379	27.6KV_3P_Y556_AL	Overhead Line	77.7	730.0000		3296.6	3013.3	3771.5	211.7	193.7	242.9	29.0	26.5	33.3	97.71	97.61	97.41
LTM02	GR2120690	4032378	27.6KV_3P_Y556_AL	Overhead Line	43.2	730.0000		3296.0	3012.6	3758.5	211.7	193.7	242.1	29.0	26.5	33.2	97.70	97.60	97.39
LTM02	GR2120691	4032377	27.6KV_3P_Y556_AL	Overhead Line	32.6	730.0000		3295.6	3012.2	3757.7	211.7	193.7	242.1	29.0	26.5	33.2	97.69	97.59	97.38
LTM02	GR2120692	4032376	27.6KV_3P_Y556_AL	Overhead Line	27.6	730.0000		3295.3	3011.9	3757.2	211.7	193.7	242.1	29.0	26.5	33.2	97.68	97.58	97.37
LTM02	GR2120693	4032375	27.6KV_3P_Y556_AL	Overhead Line	49.4	730.0000		3108.9	2823.3	3599.7	199.7	181.6	232.0	27.4	24.9	31.8	97.67	97.56	97.34
LTM02	GR2120694	4032374	27.6KV_3P_Y556_AL	Overhead Line	76.0	730.0000		3103.0	2822.9	3598.9	199.4	181.6	232.0	27.3	24.9	31.8	97.65	97.54	97.31
LTM02	GR2120695	4032373	27.6KV_3P_Y556_AL	Overhead Line	54.7	730.0000		3102.5	2822.2	3574.3	199.4	181.6	230.5	27.3	24.9	31.6	97.64	97.52	97.29
LTM02	GR2120696	11640555	27.6KV_3P_N3/0_ACSR	Overhead Line	11.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.64	97.52	97.29
LTM02	GR2120697	12981536	27.6KV_3P_Y556_AL	Overhead Line	5.8	730.0000		3102.1	2821.7	3573.4	199.4	181.6	230.5	27.3	24.9	31.6	97.64	97.52	97.28
LTM02	GR2120698	12981537	27.6KV_3P_Y556_AL	Overhead Line	5.9	730.0000		3102.0	2821.7	3573.3	199.4	181.6	230.5	27.3	24.9	31.6	97.64	97.52	97.28
LTM02	GR2120699	11640566	27.6KV_3P_N3/0_ACSR	Overhead Line	12.2	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.64	97.52	97.28
LTM02	GR2120700	4032371	27.6KV_3P_Y556_AL	Overhead Line	44.5	730.0000		3102.0	2821.7	3573.2	199.4	181.6	230.5	27.3	24.9	31.6	97.62	97.50	97.26
LTM02	GR2120701	4032370	27.6KV_3P_Y556_AL	Overhead Line	38.5	730.0000		3101.7	2821.3	3572.5	199.4	181.6	230.5	27.3	24.9	31.6	97.62	97.49	97.25
LTM02	GR2120702	4032369	27.6KV_3P_Y556_AL	Overhead Line	30.2	730.0000		3101.4	2820.9	3571.9	199.4	181.6	230.5	27.3	24.9	31.6	97.61	97.48	97.23
LTM02	GR2120703	4032368	27.6KV_3P_Y556_AL	Overhead Line	34.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.61	97.48	97.23
LTM02	GR2120704	4032388	27.6KV_3P_Y556_AL	Overhead Line	59.1	730.0000		69.0	69.8	58.1	4.4	4.5	3.7	0.6	0.6	0.5	97.61	97.48	97.23
LTM02	GR2120705	4032389	27.6KV_3P_Y556_AL	Overhead Line	54.4	730.0000		55.1	55.7	46.4	3.5	3.6	3.0	0.5	0.5	0.4	97.61	97.48	97.23
LTM02	GR2120706	4032390	27.6KV_3P_Y556_AL	Overhead Line	63.1	730.0000		55.1	55.8	46.4	3.5	3.6	3.0	0.5	0.5	0.4	97.61	97.48	97.23
LTM02	GR2120707	4032391	27.6KV_3P_Y556_AL	Overhead Line	62.4	730.0000		55.2	55.8	46.4	3.5	3.6	3.0	0.5	0.5	0.4	97.61	97.48	97.23
LTM02	GR2120708	4045112	27.6KV_3P_Y556_AL	Overhead Line	62.0	730.0000		55.2	55.8	46.4	3.5	3.6	3.0	0.5	0.5	0.4	97.61	97.48	97.23
LTM02	GR2120709	4047967	27.6KV_3P_Y556_AL	Overhead Line	59.9	730.0000		55.2	55.8	46.5	3.5	3.6	3.0	0.5	0.5	0.4	97.61	97.48	97.23
LTM02	GR2120710	4047964	27.6KV_3P_Y556_AL	Overhead Line	59.8	730.0000		55.2	55.9	46.5	3.6	3.6	3.0	0.5	0.5	0.4	97.61	97.48	97.23
LTM02	GR2120711	4047566	27.6KV_3P_Y556_AL	Overhead Line	67.1	730.0000		55.3	55.9	46.5	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120712	4047565	27.6KV_3P_Y556_AL	Overhead Line	38.1	730.0000		55.3	55.9	46.5	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120713	4047564	27.6KV_3P_Y556_AL	Overhead Line	39.4	730.0000		55.3	55.9	46.5	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120714	4045067	27.6KV_3P_Y556_AL	Overhead Line	61.6	730.0000		55.3	56.0	46.6	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120715	4047563	27.6KV_3P_Y556_AL	Overhead Line	59.6	730.0000		55.3	56.0	46.6	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120716	4047562	27.6KV_3P_Y556_AL	Overhead Line	62.8	730.0000		55.4	56.0	46.6	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120717	4047559	27.6KV_3P_Y556_AL	Overhead Line	56.2	730.0000		55.4	56.0	46.6	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120718	4047561	27.6KV_3P_Y556_AL	Overhead Line	69.2	730.0000		55.4	56.1	46.7	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120719	4047558	27.6KV_3P_Y556_AL	Overhead Line	64.5	730.0000		55.4	56.1	46.7	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120720	4047557	27.6KV_3P_Y556_AL	Overhead Line	47.6	730.0000		55.5	56.1	46.7	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120721	4047556	27.6KV_3P_Y556_AL	Overhead Line	49.0	730.0000		55.5	56.1	46.7	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120722	4047555	27.6KV_3P_Y556_AL	Overhead Line	60.1	730.0000		55.5	56.1	46.7	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120723	4047554	27.6KV_3P_Y556_AL	Overhead Line	62.9	730.0000		55.5	56.2	46.8	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120724	4047553	27.6KV_3P_Y556_AL	Overhead Line	58.2	730.0000		55.6	56.2	46.8	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120725	4047552	27.6KV_3P_Y556_AL	Overhead Line	60.9	730.0000		55.6	56.2	46.8	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120726	4047551	27.6KV_3P_Y556_AL	Overhead Line	59.0	730.0000		55.6	56.2	46.8	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120727	4047550	27.6KV_3P_Y556_AL	Overhead Line	61.7	730.0000		55.6	56.3	46.9	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120728	4047549	27.6KV_3P_Y556_AL	Overhead Line	61.4	730.0000		55.7	56.3	46.9	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120729	4047547	27.6KV_3P_Y556_AL	Overhead Line	59.8	730.0000		55.7	56.3	46.9	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.48	97.23
LTM02	GR2120730	4047546	27.6KV_3P_Y556_AL	Overhead Line	61.4	730.0000		55.7	56.4	46.9	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.47	97.23
LTM02	GR2120731	19011172	27.6KV_3P_Y556_AL	Overhead Line	59.2	730.0000		55.7	56.4	47.0	3.6	3.6	3.0	0.5	0.5	0.4	97.60	97.47	97.23
LTM02	GR2120732	18988944	27.6KV_3P_N1/0_AL	Overhead Line	2.7	530.0000		55.9	56.5	47.1	3.6	3.6	3.0	0.7	0.7	0.6	97.60	97.47	97.23
LTM02	GR2120737	4047544	27.6KV_3P_Y556_AL	Overhead Line	58.3	730.0000		0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	97.60	97.47	97.23
LTM02	GR2120738	4045066	27.6KV_3P_Y556_AL	Overhead Line	53.6	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	97.60	97.47	97.23
LTM02	GR2120739	11347342	27.6KV_3P_Y556_AL	Overhead Line	32.4	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	97.60	97.47	97.23
LTM02	GR2120740	4047543	27.6KV_3P_Y556_AL	Overhead Line	15.9	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.60	97.47	97.23
LTM02	GR2120741	4047542	27.6KV_3P_Y556_AL	Overhead Line	54.0	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.60	97.47	97.23
LTM02	GR2120742	4047541	27.6KV_3P_Y556_AL	Overhead Line	56.7	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.60	97.47	97.23
LTM02	GR2120743	18167232	27.6KV_3P_N556_AL	Overhead Line	10.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.60	97.47	97.23
LTM02	GR2120744	18984643	27.6KV_3P_N556_AL	Overhead Line	5.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.60	97.47	97.23
LTM02	GR2120747	4046727	27.6KV_3P_Y556_AL	Overhead Line	32.3	730.0000		3032.2	2750.9	3513.4	195.0	177.1	226.8	26.7	24.3	31.1	97.60	97.47	97.22
LTM02	GR2120748	4032366	27.6KV_3P_Y1/0_AL	Overhead Line	38.2	530.0000		3032.0	2750.7	3513.0	195.0	177.1	226.8	36.8	33.4	42.8	97.59	97.46	97.20
LTM02	GR2120749	4032365	27.6KV_3P_Y1/0_AL	Overhead Line	49.6	530.0000		3031.7	2750.3	3512.2	195.0	177.1	226.8	36.8	33.4	42.8	97.57	97.44	97.17
LTM02	GR2120750	4032364	27.6KV_3P_Y1/0_AL	Overhead Line	32.3	530.0000		3031.2	2749.8	3476.1	195.0	177.1	224.5	36.8	33.4	42.4	97.56	97.43	97.15
LTM02	GR2120751	4032363	27.6KV_3P_Y1/0_AL	Overhead Line	34.0	530.0000		3030.9	2749.5	3475.5	195.0	177.1	224.5	36.8	33.4	42.4	97.55	97.42	97.14
LTM02	GR2120752	4032362	27.6KV_3P_Y1/0_AL	Overhead Line	60.4	530.0000		3030.6	2749.1	3474.9	195.0	177.1	224.5	36.8	33.4	42.4	97.53	97.39	97.11
LTM02	GR2120753	4045312	27.6KV_3P_Y1/0_AL	Overhead Line	63.1	530.0000		3030.0	2727.4	3473.8	195.0	175.7	224.5	36.8	33.2	42.4	97.51	97.37	97.07
LTM02	GR2120754	4032345	27.6KV_3P_Y1/0_AL	Overhead Line	63.9	530.0000		3029.4	2726.8	3472.6	195.0	175.7	224.5	36.8	33.2	42.4	97.49	97.35	97.04
LTM02	GR2120755	11647218	27.6KV_3P_Y1/0_AL	Overhead Line	51.9	530.0000		3028.8	2720.6	3471.5	195.0	175.4	224.5	36.8	33.1	42.4	97.48	97.33	97.01
LTM02	GR2120756	11647216	DEFAULT	Overhead Line	33.1	1000.0000		247.8	250.7	209.0	16.0	16.2	13.5	1.6	1.6	1.4	97.47	97.33	97.01
LTM02	GR2120757	11647224	DEFAULT	Overhead Line	6.2	1000.0000		247.8	250.7	209.0	16.0	16.2	13.5	1.6	1.6	1.4	97.47	97.33	97.01
LTM02	GR2120758	12938973	DEFAULT	Overhead Line	9.9	1000.0000		247.8	250.7	209.0	16.0	16.2	13.5	1.6	1.6	1.4	97.47	97.32	97.01
LTM02	GR2120759	12981946	DEFAULT	Overhead Line	4.6	1000.0000		247.8	250.7	209.0	16.0	16.2	13.5	1.6	1.6	1.4	97.47	97.32	97.01
LTM02	GR2120760	12976929	DEFAULT	Overhead Line	3.8	1000.0000		247.8	250.7	209.0	16.0	16.2	13.5	1.6	1.6	1.4	97.47	97.32	97.01
LTM02	GR2120761	12981948	DEFAULT	Overhead Line	15.8	1000.0000		247.8	250.7	209.0	16.0	16.2	13.5	1.6	1.6	1.4	97.47	97.32	97.01
LTM02	GR2120762	11647231	DEFAULT	Overhead Line	21.0	1000.0000		247.8	250.7	209.0	16.0	16.2	13.5	1.6	1.6	1.4	97.47	97.32	97.00

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2120763	12939004	DEFAULT	Overhead Line	30.6	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.47	97.32	97.00
LTM02	GR2120766	12981951	DEFAULT	Overhead Line	7.1	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.47	97.32	97.01
LTM02	GR2120767	12981949	DEFAULT	Overhead Line	7.3	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.47	97.32	97.01
LTM02	GR2120768	4032343	27.6KV_3P_Y1/0_AL	Overhead Line	70.6	530.0000		2780.5	2469.4	3261.6	179.0	159.2	211.0	33.8	30.0	39.8	97.46	97.31	96.98
LTM02	GR2120769	4032342	27.6KV_3P_Y1/0_AL	Overhead Line	62.8	530.0000		2780.0	2468.8	3260.4	179.0	159.2	211.0	33.8	30.0	39.8	97.44	97.28	96.94
LTM02	GR2120770	4032179	27.6KV_3P_Y1/0_AL	Overhead Line	69.5	530.0000		2779.5	2459.9	3259.4	179.0	158.7	211.0	33.8	29.9	39.8	97.42	97.26	96.91
LTM02	GR2120771	4032178	27.6KV_3P_Y1/0_AL	Overhead Line	53.4	530.0000		2779.0	2459.3	3253.5	179.0	158.7	210.7	33.8	29.9	39.8	97.40	97.24	96.88
LTM02	GR2120772	4045856	27.6KV_3P_Y1/0_AL	Overhead Line	45.2	530.0000		2778.6	2458.9	3252.6	179.0	158.7	210.7	33.8	29.9	39.8	97.39	97.23	96.86
LTM02	GR2120773	4032177	27.6KV_3P_Y1/0_AL	Overhead Line	43.6	530.0000		2778.2	2430.4	3251.9	179.0	156.9	210.7	33.8	29.6	39.8	97.38	97.22	96.84
LTM02	GR2120774	4032176	27.6KV_3P_Y1/0_AL	Overhead Line	54.1	530.0000		2764.0	2416.0	3239.5	178.1	156.0	209.9	33.6	29.4	39.6	97.36	97.20	96.81
LTM02	GR2120775	4032173	27.6KV_3P_Y1/0_AL	Overhead Line	3.1	530.0000		2763.6	2415.6	3238.6	178.1	156.0	209.9	33.6	29.4	39.6	97.36	97.20	96.81
LTM02	GR2120776	4028163	JUMPER	Overhead Line	0.0	600.0000			5.6			0.4			0.1			97.20	
LTM02	GR2120777	4043482	27.6KV_1P_Y1/0_AL	Overhead Line	37.3	230.0000			5.6			0.4			0.2			97.20	
LTM02	GR2120778	4044261	27.6KV_1P_Y1/0_AL	Overhead Line	53.0	230.0000			5.6			0.4			0.2			97.20	
LTM02	GR2120779	4043650	27.6KV_1P_Y1/0_AL	Overhead Line	57.4	230.0000			5.6			0.4			0.2			97.20	
LTM02	GR2120782	4043483	27.6KV_1P_Y1/0_AL	Overhead Line	2.0	230.0000			0.0			0.0			0.0			97.20	
LTM02	GR2120783	4032172	27.6KV_3P_Y1/0_AL	Overhead Line	41.0	530.0000		2763.6	2410.0	3238.5	178.1	155.6	209.9	33.6	29.4	39.6	97.35	97.18	96.79
LTM02	GR2120784	4032170	27.6KV_3P_Y1/0_AL	Overhead Line	60.3	530.0000		2763.3	2409.7	3237.8	178.1	155.6	209.9	33.6	29.4	39.6	97.34	97.16	96.76
LTM02	GR2120785	4032169	27.6KV_3P_Y1/0_AL	Overhead Line	59.8	530.0000		2762.8	2409.2	3232.2	178.1	155.6	209.6	33.6	29.4	39.6	97.32	97.14	96.73
LTM02	GR2120786	4032168	27.6KV_3P_Y1/0_AL	Overhead Line	48.7	530.0000		2762.4	2408.8	3231.2	178.1	155.6	209.6	33.6	29.4	39.6	97.31	97.13	96.70
LTM02	GR2120787	4046725	27.6KV_3P_Y1/0_AL	Overhead Line	53.2	530.0000		2734.2	2380.2	3206.9	176.3	153.8	208.1	33.3	29.0	39.3	97.29	97.11	96.68
LTM02	GR2120788	4032167	27.6KV_3P_Y1/0_AL	Overhead Line	23.6	530.0000		2706.1	2379.8	3206.0	174.6	153.8	208.1	32.9	29.0	39.3	97.29	97.10	96.67
LTM02	GR2120789	4032166	27.6KV_3P_Y1/0_AL	Overhead Line	51.5	530.0000		2706.0	2351.5	3205.6	174.6	152.0	208.1	32.9	28.7	39.3	97.27	97.09	96.64
LTM02	GR2120790	4031472	27.6KV_3P_Y1/0_AL	Overhead Line	41.6	530.0000		2705.6	2351.2	3204.8	174.6	152.0	208.1	32.9	28.7	39.3	97.26	97.08	96.62
LTM02	GR2120791	11432608	27.6KV_3P_N1/0_AL	Overhead Line	3.0	530.0000		55.9	56.5	47.1	3.6	3.7	3.1	0.7	0.7	0.6	97.26	97.08	96.62
LTM02	GR2120796	4032165	27.6KV_3P_Y1/0_AL	Overhead Line	58.1	530.0000		2649.4	2294.3	3157.0	170.9	148.3	205.1	32.3	28.0	38.7	97.25	97.06	96.59
LTM02	GR2120797	4032164	27.6KV_3P_Y1/0_AL	Overhead Line	56.5	530.0000		2621.2	2293.9	3156.1	169.2	148.3	205.1	31.9	28.0	38.7	97.23	97.04	96.56
LTM02	GR2120798	4032163	27.6KV_3P_Y1/0_AL	Overhead Line	25.1	530.0000		2620.9	2293.5	3155.2	169.2	148.3	205.1	31.9	28.0	38.7	97.23	97.03	96.55
LTM02	GR2120799	4032592	27.6KV_3P_Y1/0_AL	Overhead Line	33.0	530.0000		2620.7	2293.4	3154.8	169.2	148.3	205.1	31.9	28.0	38.7	97.22	97.02	96.53
LTM02	GR2120800	18996945	27.6KV_3P_Y1/0_AL	Overhead Line	56.8	530.0000		2620.5	2279.1	3154.3	169.2	147.4	205.1	31.9	27.8	38.7	97.20	97.00	96.51
LTM02	GR2120801	18185463	27.6KV_3P_Y1/0_AL	Overhead Line	34.7	530.0000		2480.7	2137.7	3035.8	160.2	138.3	197.4	30.2	26.1	37.2	97.20	96.99	96.49
LTM02	GR2120802	18203537	27.6KV_3P_N1/0_AL	Overhead Line	4.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.20	96.99	96.49
LTM02	GR2120808	4043316	27.6KV_3P_Y1/0_AL	Overhead Line	36.8	530.0000		2480.6	2137.5	3035.3	160.2	138.3	197.4	30.2	26.1	37.2	97.19	96.98	96.47
LTM02	GR2120809	18190640	27.6KV_3P_Y1/0_AL	Overhead Line	50.5	530.0000		2453.0	2109.6	3011.6	158.4	136.5	195.9	29.9	25.8	37.0	97.18	96.97	96.45
LTM02	GR2120810	18190639	27.6KV_3P_N1/0_AL	Overhead Line	4.7	530.0000		501.1	601.7	392.5	32.4	38.9	25.5	6.1	7.3	4.8	97.18	96.97	96.45
LTM02	GR2120940	4043317	27.6KV_3P_Y1/0_AL	Overhead Line	9.5	530.0000		1951.6	1507.6	2618.4	126.0	97.6	170.4	23.8	18.4	32.1	97.17	96.97	96.44
LTM02	GR2120941	4043318	27.6KV_3P_Y1/0_AL	Overhead Line	31.6	530.0000		1951.6	1507.6	2618.3	126.0	97.6	170.4	23.8	18.4	32.1	97.17	96.96	96.43
LTM02	GR2120942	4032572	27.6KV_3P_Y1/0_AL	Overhead Line	61.6	530.0000		1951.5	1507.5	2617.9	126.0	97.6	170.4	23.8	18.4	32.1	97.16	96.95	96.40
LTM02	GR2120943	4032571	27.6KV_3P_Y1/0_AL	Overhead Line	76.4	530.0000		1951.4	1507.3	2582.0	126.0	97.6	168.1	23.8	18.4	31.7	97.15	96.93	96.37
LTM02	GR2120944	4032570	27.6KV_3P_Y1/0_AL	Overhead Line	72.7	530.0000		1909.5	1507.1	2581.1	123.3	97.6	168.1	23.3	18.4	31.7	97.14	96.92	96.34
LTM02	GR2120945	4033347	27.6KV_3P_Y1/0_AL	Overhead Line	60.9	530.0000		1909.3	1492.9	2580.3	123.3	96.7	168.1	23.3	18.2	31.7	97.13	96.90	96.31
LTM02	GR2120946	4046737	27.6KV_3P_Y1/0_AL	Overhead Line	61.1	530.0000		1909.2	1487.1	2579.6	123.3	96.3	168.1	23.3	18.2	31.7	97.13	96.89	96.28
LTM02	GR2120947	18988691	27.6KV_3P_Y1/0_AL	Overhead Line	10.5	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.13	96.89	96.28
LTM02	GR2120948	18988693	27.6KV_3P_Y1/0_AL	Overhead Line	4.9	530.0000		1909.0	1486.9	2578.9	123.3	96.3	168.1	23.3	18.2	31.7	97.12	96.89	96.28
LTM02	GR2120949	18988684	27.6KV_3P_Y1/0_AL	Overhead Line	5.8	530.0000		1909.0	1486.9	2578.9	123.3	96.3	168.1	23.3	18.2	31.7	97.12	96.89	96.28
LTM02	GR2120950	18988690	27.6KV_3P_Y1/0_AL	Overhead Line	10.5	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.12	96.89	96.28
LTM02	GR2120951	4031958	27.6KV_3P_Y1/0_AL	Overhead Line	40.7	530.0000		1909.0	1486.9	2578.8	123.3	96.3	168.1	23.3	18.2	31.7	97.12	96.88	96.26
LTM02	GR2120952	4031957	27.6KV_3P_Y1/0_AL	Overhead Line	22.7	530.0000		1908.9	1472.8	2578.3	123.4	95.4	168.1	23.3	18.0	31.7	97.12	96.88	96.25
LTM02	GR2120953	18166309	27.6KV_3P_Y1/0_AL	Overhead Line	13.8	530.0000		1908.9	1472.7	2578.1	123.4	95.4	168.1	23.3	18.0	31.7	97.11	96.87	96.24
LTM02	GR2120954	18166954	27.6KV_3P_Y556_ASC	Overhead Line	42.9	730.0000		62.4	63.1	87.7	4.0	4.1	5.7	0.6	0.6	0.8	97.11	96.87	96.24
LTM02	GR2120955	18982668	27.6KV_3P_Y556_ASC	Overhead Line	73.8	730.0000		62.4	63.1	87.7	4.0	4.1	5.7	0.6	0.6	0.8	97.11	96.87	96.24
LTM02	GR2120956	18982384	27.6KV_3P_Y556_ASC	Overhead Line	75.6	730.0000		62.4	63.2	87.7	4.0	4.1	5.7	0.6	0.6	0.8	97.11	96.87	96.24
LTM02	GR2120957	18982386	27.6KV_3P_Y556_ASC	Overhead Line	39.2	730.0000		62.5	63.2	64.3	4.0	4.1	4.2	0.6	0.6	0.6	97.11	96.87	96.24
LTM02	GR2120958	13544442	27.6KV_1P_N3/0_ACSR	Overhead Line	4.1	530.0000				11.7			0.8			0.1			96.24
LTM02	GR2120959	13544420	27.6KV_1P_N3/0_ACSR	Overhead Line	7.7	530.0000				11.7			0.8			0.1			96.24
LTM02	GR2120960	4041976	27.6KV_1P_Y1/0_AL	Overhead Line	57.8	230.0000				11.7			0.8			0.3			96.24
LTM02	GR2120961	4043603	27.6KV_1P_Y1/0_AL	Overhead Line	57.6	230.0000				11.7			0.8			0.3			96.24
LTM02	GR2120964	18981969	27.6KV_3P_Y556_ASC	Overhead Line	48.0	730.0000		62.5	63.2	52.6	4.0	4.1	3.4	0.6	0.6	0.5	97.11	96.87	96.24
LTM02	GR2120965	18981974	27.6KV_3P_Y556_ASC	Overhead Line	50.8	730.0000		62.5	63.2	52.7	4.0	4.1	3.4	0.6	0.6	0.5	97.11	96.87	96.24
LTM02	GR2120966	18981973	27.6KV_3P_Y556_ASC	Overhead Line	48.1	730.0000		20.6	20.8	17.3	1.3	1.4	1.1	0.2	0.2	0.2	97.11	96.87	96.24
LTM02	GR2120967	18981971	27.6KV_3P_Y556_ASC	Overhead Line	48.3	730.0000		0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120968	18982392	27.6KV_3P_Y556_ASC	Overhead Line	44.9	730.0000		0.7	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120969	18982406	27.6KV_3P_Y556_ASC	Overhead Line	44.8	730.0000		0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120970	18982426	27.6KV_3P_Y556_ASC	Overhead Line	51.8	730.0000		0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120971	18982444	27.6KV_3P_Y556_ASC	Overhead Line	45.3	730.0000		0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120972	18982468	27.6KV_3P_Y556_ASC	Overhead Line	43.9	730.0000		0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120973	18982475	27.6KV_3P_Y556_ASC	Overhead Line	50.2	730.0000		0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120974	18982490	27.6KV_3P_Y556_ASC	Overhead Line	48.0	730.0000		0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120975	18982492	27.6KV_3P_Y556_ASC	Overhead Line	50.1	730.0000		0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120976	18982505	27.6KV_3P_Y556_ASC	Overhead Line	44.0	730.0000		0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120977	18982518	27.6KV_3P_Y556_ASC	Overhead Line	52.0	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120978	18982527	27.6KV_3P_Y556_ASC	Overhead Line	48.2	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2120979	18982554	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120980	18982555	27.6KV_3P_Y556_ASC	Overhead Line	43.9	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120981	18982556	27.6KV_3P_Y556_ASC	Overhead Line	4.1	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120982	18167246	27.6KV_3P_N556_ASC	Overhead Line	10.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120983	18167249	27.6KV_3P_Y556_ASC	Overhead Line	5.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.11	96.87	96.24
LTM02	GR2120990	4031956	27.6KV_3P_Y1/0_AL	Overhead Line	30.9	530.0000		1846.5	1409.6	2490.2	119.3	91.3	162.4	22.5	17.2	30.6	97.11	96.87	96.23
LTM02	GR2120991	17240951	27.6KV_3P_Y1/0_AL	Overhead Line	4.6	530.0000		650.5	563.4	803.8	42.0	36.5	52.4	7.9	6.9	9.9	97.11	96.87	96.23
LTM02	GR2121226	18135189	27.6KV_3P_Y1/0_AL	Overhead Line	30.6	530.0000		1195.9	846.1	1686.1	77.3	54.8	110.0	14.6	10.3	20.7	97.11	96.86	96.22
LTM02	GR2121227	18110704	27.6KV_3P_Y1/0_AL	Overhead Line	27.7	530.0000		1195.9	846.1	1525.2	77.3	54.8	99.5	14.6	10.3	18.8	97.11	96.86	96.21
LTM02	GR2121228	18135186	27.6KV_3P_Y1/0_AL	Overhead Line	11.7	530.0000		1195.9	846.1	1525.1	77.3	54.8	99.5	14.6	10.3	18.8	97.10	96.86	96.21
LTM02	GR2121229	18110709	27.6KV_3P_Y1/0_AL	Overhead Line	49.0	530.0000		725.9	663.1	1238.9	46.9	43.0	80.8	8.9	8.1	15.2	97.10	96.85	96.20
LTM02	GR2121230	4031955	27.6KV_3P_Y1/0_AL	Overhead Line	84.2	530.0000		705.3	663.1	1238.8	45.6	43.0	80.8	8.6	8.1	15.2	97.10	96.84	96.18
LTM02	GR2121231	4031954	27.6KV_3P_Y1/0_AL	Overhead Line	54.1	530.0000		705.3	663.0	1238.6	45.6	43.0	80.8	8.6	8.1	15.2	97.10	96.84	96.17
LTM02	GR2121232	13551815	27.6KV_3P_Y1/0_AL	Overhead Line	57.3	530.0000		705.3	657.5	1238.5	45.6	42.6	80.8	8.6	8.0	15.2	97.10	96.83	96.16
LTM02	GR2121233	4031953	27.6KV_3P_Y1/0_AL	Overhead Line	15.6	530.0000		705.3	657.4	1238.4	45.6	42.6	80.8	8.6	8.0	15.2	97.10	96.83	96.16
LTM02	GR2121234	4031952	27.6KV_3P_Y1/0_AL	Overhead Line	38.5	530.0000		705.3	657.4	1238.3	45.6	42.6	80.8	8.6	8.0	15.2	97.10	96.82	96.15
LTM02	GR2121235	18100499	27.6KV_3P_N1/0_AL	Overhead Line	1.9	530.0000		93.0	94.1	78.5	6.0	6.1	5.1	1.1	1.2	1.0	97.10	96.82	96.15
LTM02	GR2121241	4031951	27.6KV_3P_Y1/0_AL	Overhead Line	44.8	530.0000		612.3	563.3	1159.8	39.6	36.5	75.7	7.5	6.9	14.3	97.10	96.82	96.14
LTM02	GR2121242	18063430	27.6KV_3P_Y1/0_AL	Overhead Line	17.1	530.0000		612.3	563.3	1159.7	39.6	36.5	75.7	7.5	6.9	14.3	97.10	96.82	96.14
LTM02	GR2121243	17242240	27.6KV_3P_N1/0_AL	Overhead Line	4.1	530.0000		612.4	563.3	1148.0	39.6	36.5	74.9	7.5	6.9	14.1	97.10	96.82	96.14
LTM02	GR2121486	4031950	27.6KV_3P_Y1/0_AL	Overhead Line	63.3	530.0000		0.1	0.1	11.7	0.0	0.0	0.8	0.0	0.0	0.1	97.10	96.82	96.14
LTM02	GR2121487	4031949	27.6KV_3P_Y556_ACSR	Overhead Line	34.0	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.10	96.82	96.14
LTM02	GR2121488	18167217	27.6KV_3P_N556_ACSR	Overhead Line	10.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.10	96.82	96.14
LTM02	GR2121489	18167221	27.6KV_3P_N556_ACSR	Overhead Line	5.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.10	96.82	96.14
LTM02	GR2121492	4047428	27.6KV_1P_Y1/0_AL	Overhead Line	26.0	230.0000			5.5			0.4			0.2			96.84	
LTM02	GR2121493	4033485	27.6KV_1P_Y1/0_AL	Overhead Line	73.0	230.0000			5.6			0.4			0.2			96.84	
LTM02	GR2121494	4043889	27.6KV_1P_Y1/0_AL	Overhead Line	53.9	230.0000			5.6			0.4			0.2			96.84	
LTM02	GR2121495	4044063	27.6KV_1P_Y1/0_AL	Overhead Line	79.6	230.0000			5.6			0.4			0.2			96.84	
LTM02	GR2121496	4044274	27.6KV_1P_Y1/0_AL	Overhead Line	65.0	230.0000			5.6			0.4			0.2			96.84	
LTM02	GR2121501	18191660	27.6KV_3P_N1/0_AL	Overhead Line	3.5	530.0000		470.0	183.0	286.2	30.4	11.9	18.7	5.7	2.2	3.5	97.10	96.86	96.21
LTM02	GR2121589	18190593	27.6KV_1P_N1/0_AL	Overhead Line	2.9	530.0000				160.8			10.5			2.0			96.22
LTM02	GR2121621	4047420	27.6KV_3P_Y1/0_AL	Overhead Line	34.7	530.0000		27.4	27.7	23.1	1.8	1.8	1.5	0.3	0.3	0.3	97.19	96.98	96.47
LTM02	GR2121622	4047421	27.6KV_3P_Y1/0_AL	Overhead Line	30.8	530.0000		27.4	27.7	23.2	1.8	1.8	1.5	0.3	0.3	0.3	97.19	96.98	96.47
LTM02	GR2121623	4047422	27.6KV_3P_Y1/0_AL	Overhead Line	41.7	530.0000		27.4	27.7	23.2	1.8	1.8	1.5	0.3	0.3	0.3	97.19	96.98	96.47
LTM02	GR2121626	18203542	27.6KV_3P_N1/0_AL	Overhead Line	3.6	530.0000		139.4	141.0	117.6	9.0	9.1	7.6	1.7	1.7	1.4	97.20	97.00	96.51
LTM02	GR2121636	4045231	27.6KV_1P_Y1/0_AL	Overhead Line	33.0	230.0000		27.7			1.8			0.8			97.29		
LTM02	GR2121637	4045232	27.6KV_1P_Y1/0_AL	Overhead Line	57.3	230.0000		27.7			1.8			0.8			97.29		
LTM02	GR2121638	4045229	27.6KV_1P_Y1/0_AL	Overhead Line	57.2	230.0000		27.7			1.8			0.8			97.29		
LTM02	GR2121639	4047860	27.6KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000		13.9			0.9			0.4			97.29		
LTM02	GR2121666	4042986	27.6KV_3P_Y556_AL	Overhead Line	2.9	730.0000		186.2	188.3	157.0	12.0	12.1	10.1	1.6	1.7	1.4	97.68	97.58	97.37
LTM02	GR2121667	11329377	27.6KV_3P_Y1/0_AL	Overhead Line	21.8	530.0000		186.2	188.3	157.0	12.0	12.1	10.1	2.3	2.3	1.9	97.68	97.58	97.37
LTM02	GR2121668	11219026	27.6KV_3P_N1/0_AL	Overhead Line	3.6	530.0000		186.2	188.3	157.0	12.0	12.1	10.1	2.3	2.3	1.9	97.68	97.58	97.37
LTM02	GR2121669	4046422	27.6KV_3P_Y1/0_AL	Overhead Line	5.6	530.0000		186.2	188.3	157.0	12.0	12.1	10.1	2.3	2.3	1.9	97.68	97.58	97.37
LTM02	GR2121680	11219027	27.6KV_3P_Y1/0_AL	Overhead Line	2.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.68	97.58	97.37
LTM02	GR2121693	4043365	27.6KV_3P_Y556_AL	Overhead Line	4.7	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.18	98.18	98.17
LTM02	GR2121694	4044763	27.6KV_3P_Y556_AL	Overhead Line	6.6	730.0000		1118.6	1328.4	792.9	71.5	84.9	50.7	9.8	11.6	6.9	98.18	98.18	98.17
LTM02	GR2121695	4044764	27.6KV_3P_Y556_AL	Overhead Line	60.5	730.0000		1118.6	1328.4	792.9	71.5	84.9	50.7	9.8	11.6	6.9	98.17	98.17	98.17
LTM02	GR2121696	4044765	27.6KV_3P_Y556_AL	Overhead Line	65.6	730.0000		1118.5	1328.3	792.9	71.5	84.9	50.7	9.8	11.6	6.9	98.16	98.16	98.17
LTM02	GR2121697	4044766	27.6KV_3P_Y556_AL	Overhead Line	65.1	730.0000		1118.4	1328.2	792.9	71.5	84.9	50.7	9.8	11.6	6.9	98.15	98.15	98.17
LTM02	GR2121698	4044767	27.6KV_3P_Y556_AL	Overhead Line	59.3	730.0000		1118.3	1328.1	793.0	71.5	84.9	50.7	9.8	11.6	6.9	98.14	98.15	98.17
LTM02	GR2121699	4045503	27.6KV_3P_Y556_AL	Overhead Line	61.7	730.0000		1118.2	1328.1	793.0	71.5	84.9	50.7	9.8	11.6	6.9	98.13	98.14	98.16
LTM02	GR2121700	4044768	27.6KV_3P_Y556_AL	Overhead Line	62.9	730.0000		1118.1	1328.0	793.0	71.5	84.9	50.7	9.8	11.6	6.9	98.12	98.13	98.16
LTM02	GR2121701	4044770	27.6KV_3P_Y556_AL	Overhead Line	66.6	730.0000		1118.0	1327.9	793.0	71.5	84.9	50.7	9.8	11.6	6.9	98.11	98.12	98.16
LTM02	GR2121702	11353820	27.6KV_3P_Y556_AL	Overhead Line	57.2	730.0000		327.6	317.3	273.7	21.0	20.3	17.5	2.9	2.8	2.4	98.10	98.12	98.16
LTM02	GR2121703	11353822	27.6KV_3P_Y556_AL	Overhead Line	56.3	730.0000		327.6	317.3	273.7	21.0	20.3	17.5	2.9	2.8	2.4	98.10	98.12	98.16
LTM02	GR2121704	11353823	27.6KV_3P_Y556_AL	Overhead Line	63.6	730.0000		48.2	34.6	38.2	3.1	2.2	2.4	0.4	0.3	0.3	98.10	98.12	98.16
LTM02	GR2121705	11359812	27.6KV_3P_Y556_AL	Overhead Line	23.3	730.0000		48.2	20.6	38.2	3.1	1.3	2.4	0.4	0.2	0.3	98.10	98.12	98.16
LTM02	GR2121706	11359813	27.6KV_3P_Y556_AL	Overhead Line	23.1	730.0000		48.2	20.6	38.2	3.1	1.3	2.4	0.4	0.2	0.3	98.10	98.12	98.16
LTM02	GR2121707	11360130	27.6KV_3P_Y556_AL	Overhead Line	35.9	730.0000		27.6	0.6	11.5	1.8	0.0	0.7	0.2	0.0	0.1	98.10	98.12	98.16
LTM02	GR2121708	11371703	27.6KV_3P_Y556_AL	Overhead Line	3.7	730.0000		27.6	0.6	11.5	1.8	0.0	0.7	0.2	0.0	0.1	98.10	98.12	98.16
LTM02	GR2121709	11360127	27.6KV_3P_Y556_AL	Overhead Line	26.4	730.0000		27.6	0.6	11.5	1.8	0.0	0.7	0.2	0.0	0.1	98.10	98.12	98.16
LTM02	GR2121710	11360124	27.6KV_3P_Y556_AL	Overhead Line	30.0	730.0000		27.6	0.6	11.5	1.8	0.0	0.7	0.2	0.0	0.1	98.10	98.12	98.16
LTM02	GR2121711	11360123	27.6KV_3P_Y556_AL	Overhead Line	34.4	730.0000		27.6	0.5	11.5	1.8	0.0	0.7	0.2	0.0	0.1	98.10	98.12	98.16
LTM02	GR2121712	11360119	27.6KV_3P_Y556_AL	Overhead Line	55.7	730.0000		27.6	0.5	11.5	1.8	0.0	0.7	0.2	0.0	0.1	98.10	98.12	98.16
LTM02	GR2121713	11360117	27.6KV_3P_Y556_AL	Overhead Line	51.3	730.0000		0.4	0.4	11.5	0.0	0.0	0.7	0.0	0.0	0.1	98.10	98.12	98.16
LTM02	GR2121714	11360113	27.6KV_3P_Y556_AL	Overhead Line	50.2	730.0000		0.4	0.4	11.6	0.0	0.0	0.7	0.0	0.0	0.1	98.10	98.12	98.16
LTM02	GR2121715	11360111	27.6KV_3P_Y556_AL	Overhead Line	55.3	730.0000		0.3	0.3	11.6	0.0	0.0	0.7	0.0	0.0	0.1	98.10	98.12	98.16
LTM02	GR2121716	11360105	27.6KV_3P_Y556_AL	Overhead Line	50.8	730.0000		0.3	0.3	11.6	0.0	0.0	0.7	0.0	0.0	0.1	98.10	98.12	98.16
LTM02	GR2121717	11360100	27.6KV_3P_Y556_AL	Overhead Line	50.7	730.0000		0.2	0.2	11.6	0.0	0.0	0.7	0.0	0.0	0.1	98.10	98.12	98.16
LTM02	GR2121718	11359990	27.6KV_3P_Y556_AL	Overhead Line	32.5	730.0000		0.2	0.2	11.6	0.0	0.0	0.7	0.0	0.0	0.1	98.10	98.12	98.16
LTM02	GR2121719	11360095	27.6KV_3P_Y556_AL	Overhead Line	30.8	730.0000		0.1	0.1	11.7	0.0	0.0	0.7	0.0	0.0	0.1	98.10	98.12	98.16
LTM02	GR2121720	11360097	27.6KV_3P_Y556_AL	Overhead Line	26.8	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.10	98.12	98.16

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2121721	11360004	27.6KV_3P_Y556_AL	Overhead Line	58.9	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.10	98.12	98.16
LTM02	GR2121726	18113516	27.6KV_3P_Y556_ASC	Overhead Line	51.2	730.0000		20.6	20.9	26.8	1.3	1.3	1.7	0.2	0.2	0.2	98.10	98.12	98.16
LTM02	GR2121727	19047121	27.6KV_3P_Y556_ASC	Overhead Line	47.9	730.0000		20.7	20.9	26.8	1.3	1.3	1.7	0.2	0.2	0.2	98.10	98.12	98.16
LTM02	GR2121728	19047122	27.6KV_3P_Y556_ASC	Overhead Line	39.2	730.0000		20.7	20.9	26.8	1.3	1.3	1.7	0.2	0.2	0.2	98.10	98.12	98.16
LTM02	GR2121729	19047123	27.6KV_3P_Y556_ASC	Overhead Line	37.7	730.0000		20.7	20.9	26.8	1.3	1.3	1.7	0.2	0.2	0.2	98.10	98.12	98.16
LTM02	GR2121730	19047124	27.6KV_3P_Y556_ASC	Overhead Line	50.0	730.0000		20.7	21.0	22.1	1.3	1.3	1.4	0.2	0.2	0.2	98.10	98.12	98.16
LTM02	GR2121731	19047125	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		20.7	21.0	22.2	1.3	1.3	1.4	0.2	0.2	0.2	98.10	98.12	98.16
LTM02	GR2121732	19047126	27.6KV_3P_Y556_ASC	Overhead Line	48.0	730.0000		20.8	21.0	22.2	1.3	1.3	1.4	0.2	0.2	0.2	98.10	98.12	98.16
LTM02	GR2121733	19047147	27.6KV_3P_Y556_ASC	Overhead Line	44.9	730.0000		20.8	21.0	22.2	1.3	1.3	1.4	0.2	0.2	0.2	98.10	98.12	98.16
LTM02	GR2121734	19047150	27.6KV_3P_Y556_ASC	Overhead Line	54.7	730.0000		20.8	21.0	22.2	1.3	1.3	1.4	0.2	0.2	0.2	98.10	98.12	98.16
LTM02	GR2121735	19047151	27.6KV_3P_Y556_ASC	Overhead Line	44.7	730.0000		20.8	21.1	22.2	1.3	1.3	1.4	0.2	0.2	0.2	98.10	98.12	98.16
LTM02	GR2121736	19047152	27.6KV_3P_Y556_ASC	Overhead Line	55.2	730.0000		20.8	21.1	22.3	1.3	1.3	1.4	0.2	0.2	0.2	98.10	98.12	98.16
LTM02	GR2121737	19047153	27.6KV_3P_Y556_ASC	Overhead Line	60.8	730.0000		0.1	0.1	4.7	0.0	0.0	0.3	0.0	0.0	0.0	98.10	98.12	98.16
LTM02	GR2121746	11359413	27.6KV_3P_N556_AL	Overhead Line	4.2	730.0000		279.5	282.7	235.6	17.9	18.1	15.1	2.4	2.5	2.1	98.10	98.12	98.16
LTM02	GR2121751	11561241	27.6KV_3P_Y556_AL	Overhead Line	60.5	730.0000		790.4	1010.5	519.4	50.6	64.6	33.2	6.9	8.9	4.5	98.10	98.11	98.16
LTM02	GR2121752	4044772	27.6KV_3P_Y556_AL	Overhead Line	61.5	730.0000		790.4	1010.5	519.4	50.6	64.6	33.2	6.9	8.9	4.5	98.09	98.11	98.16
LTM02	GR2121753	4044773	27.6KV_3P_Y556_AL	Overhead Line	59.5	730.0000		790.3	1010.5	519.4	50.6	64.6	33.2	6.9	8.9	4.5	98.08	98.10	98.16
LTM02	GR2121754	4044774	27.6KV_3P_Y556_AL	Overhead Line	63.7	730.0000		790.3	1010.4	519.4	50.6	64.6	33.2	6.9	8.9	4.5	98.08	98.10	98.16
LTM02	GR2121755	4044779	27.6KV_3P_Y556_AL	Overhead Line	63.3	730.0000		790.3	1010.4	519.5	50.6	64.6	33.2	6.9	8.9	4.5	98.07	98.09	98.16
LTM02	GR2121756	4044781	27.6KV_3P_Y556_AL	Overhead Line	65.1	730.0000		790.2	1010.4	519.5	50.6	64.6	33.2	6.9	8.9	4.5	98.06	98.08	98.16
LTM02	GR2121757	11321343	27.6KV_3P_Y1/0_AL	Overhead Line	57.2	530.0000		790.2	1010.3	519.5	50.6	64.6	33.2	9.5	12.2	6.3	98.05	98.07	98.16
LTM02	GR2121758	15481717	27.6KV_3P_Y556_AL	Overhead Line	4.8	730.0000		383.7	374.0	312.1	24.6	23.9	20.0	3.4	3.3	2.7	98.05	98.07	98.16
LTM02	GR2121759	15481837	27.6KV_3P_Y556_AL	Overhead Line	10.0	730.0000		383.7	374.0	312.1	24.6	23.9	20.0	3.4	3.3	2.7	98.05	98.07	98.16
LTM02	GR2121760	15481763	27.6KV_3P_Y556_AL	Overhead Line	3.9	730.0000		383.7	374.0	312.1	24.6	23.9	20.0	3.4	3.3	2.7	98.05	98.07	98.16
LTM02	GR2121761	15481838	27.6KV_3P_Y556_AL	Overhead Line	4.8	730.0000		383.7	374.0	312.1	24.6	23.9	20.0	3.4	3.3	2.7	98.05	98.07	98.16
LTM02	GR2121762	15481841	27.6KV_3P_Y556_AL	Overhead Line	7.4	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.07	98.16
LTM02	GR2121763	15482606	27.6KV_3P_Y556_AL	Overhead Line	12.6	730.0000		383.7	374.0	312.1	24.6	23.9	20.0	3.4	3.3	2.7	98.05	98.07	98.16
LTM02	GR2121764	15482927	27.6KV_3P_Y556_AL	Overhead Line	6.6	730.0000		383.7	374.0	312.1	24.6	23.9	20.0	3.4	3.3	2.7	98.05	98.07	98.16
LTM02	GR2121765	16487594	27.6KV_3P_Y556_AL	Overhead Line	3.1	730.0000		383.7	374.0	312.1	24.6	23.9	20.0	3.4	3.3	2.7	98.05	98.07	98.16
LTM02	GR2121766	15484880	27.6KV_3P_Y556_AL	Overhead Line	12.0	730.0000		369.8	374.0	312.1	23.7	23.9	20.0	3.2	3.3	2.7	98.05	98.07	98.16
LTM02	GR2121771	15481836	27.6KV_3P_Y556_AL	Overhead Line	7.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.07	98.16
LTM02	GR2121772	4044784	27.6KV_3P_Y1/0_AL	Overhead Line	65.8	530.0000		406.6	636.3	207.7	26.0	40.7	13.3	4.9	7.7	2.5	98.05	98.07	98.16
LTM02	GR2121773	4044786	27.6KV_3P_Y1/0_AL	Overhead Line	60.9	530.0000		406.6	636.3	207.7	26.0	40.7	13.3	4.9	7.7	2.5	98.04	98.06	98.16
LTM02	GR2121774	4046864	27.6KV_3P_Y1/0_AL	Overhead Line	66.6	530.0000		401.0	636.3	207.7	25.7	40.7	13.3	4.8	7.7	2.5	98.03	98.06	98.16
LTM02	GR2121775	4042528	27.6KV_3P_Y1/0_AL	Overhead Line	63.9	530.0000		401.0	636.2	207.8	25.7	40.7	13.3	4.8	7.7	2.5	98.03	98.05	98.16
LTM02	GR2121776	4032590	27.6KV_3P_Y1/0_AL	Overhead Line	62.0	530.0000		401.0	636.2	207.8	25.7	40.7	13.3	4.8	7.7	2.5	98.02	98.05	98.16
LTM02	GR2121777	4032588	27.6KV_3P_Y1/0_AL	Overhead Line	64.2	530.0000		401.0	636.2	207.8	25.7	40.7	13.3	4.8	7.7	2.5	98.02	98.04	98.17
LTM02	GR2121778	4032579	27.6KV_3P_Y1/0_AL	Overhead Line	64.2	530.0000		401.0	636.2	207.8	25.7	40.7	13.3	4.8	7.7	2.5	98.01	98.04	98.17
LTM02	GR2121779	4045268	27.6KV_3P_Y1/0_AL	Overhead Line	65.3	530.0000		401.0	636.2	207.9	25.7	40.7	13.3	4.8	7.7	2.5	98.01	98.03	98.17
LTM02	GR2121780	4045658	27.6KV_3P_Y1/0_AL	Overhead Line	62.1	530.0000		401.0	636.2	207.9	25.7	40.7	13.3	4.8	7.7	2.5	98.00	98.02	98.17
LTM02	GR2121781	4041974	27.6KV_3P_Y1/0_AL	Overhead Line	61.7	530.0000		401.0	636.2	207.9	25.7	40.7	13.3	4.8	7.7	2.5	97.99	98.02	98.17
LTM02	GR2121782	4041995	27.6KV_3P_Y1/0_AL	Overhead Line	63.1	530.0000		401.0	636.2	207.9	25.7	40.7	13.3	4.8	7.7	2.5	97.99	98.01	98.17
LTM02	GR2121783	4041998	27.6KV_3P_Y1/0_AL	Overhead Line	58.2	530.0000		401.0	636.2	208.0	25.7	40.7	13.3	4.8	7.7	2.5	97.98	98.01	98.17
LTM02	GR2121784	4042001	27.6KV_3P_Y1/0_AL	Overhead Line	55.6	530.0000		401.0	636.1	208.0	25.7	40.7	13.3	4.8	7.7	2.5	97.98	98.00	98.17
LTM02	GR2121785	4042008	27.6KV_3P_Y1/0_AL	Overhead Line	61.1	530.0000		401.0	636.1	208.0	25.7	40.7	13.3	4.8	7.7	2.5	97.97	98.00	98.17
LTM02	GR2121786	4046839	27.6KV_3P_Y1/0_AL	Overhead Line	55.7	530.0000		401.0	622.1	208.0	25.7	39.8	13.3	4.8	7.5	2.5	97.97	97.99	98.18
LTM02	GR2121787	4043404	27.6KV_3P_Y1/0_AL	Overhead Line	58.8	530.0000		401.0	622.1	208.0	25.7	39.8	13.3	4.8	7.5	2.5	97.96	97.99	98.18
LTM02	GR2121788	4042873	27.6KV_1P_Y1/0_AL	Overhead Line	6.1	230.0000			84.3			5.4			2.3			97.99	
LTM02	GR2121789	4042444	27.6KV_1P_Y1/0_AL	Overhead Line	26.6	230.0000			84.3			5.4			2.3			97.99	
LTM02	GR2121790	4042446	27.6KV_1P_Y1/0_AL	Overhead Line	43.4	230.0000			84.3			5.4			2.3			97.99	
LTM02	GR2121791	10259684	27.6KV_1P_N1/0_AL	Overhead Line	35.5	530.0000			56.2			3.6			0.7			97.99	
LTM02	GR2121794	4042450	27.6KV_1P_Y1/0_AL	Overhead Line	28.7	230.0000			28.1			1.8			0.8			97.99	
LTM02	GR2121795	4047638	27.6KV_1P_Y1/0_AL	Overhead Line	31.1	230.0000			28.1			1.8			0.8			97.99	
LTM02	GR2121798	4043405	27.6KV_3P_Y1/0_AL	Overhead Line	64.4	530.0000		401.0	537.8	208.1	25.7	34.4	13.3	4.8	6.5	2.5	97.96	97.98	98.18
LTM02	GR2121799	4043410	27.6KV_3P_Y1/0_AL	Overhead Line	47.7	530.0000		401.0	529.3	208.1	25.7	33.9	13.3	4.8	6.4	2.5	97.95	97.98	98.18
LTM02	GR2121800	4043412	27.6KV_3P_Y1/0_AL	Overhead Line	42.1	530.0000		401.0	529.3	208.1	25.7	33.9	13.3	4.8	6.4	2.5	97.95	97.98	98.18
LTM02	GR2121801	4031239	JUMPER	Overhead Line	0.0	600.0000			56.2			3.6			0.6			97.98	
LTM02	GR2121802	4042660	27.6KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000			0.0			0.0			0.0			97.98	
LTM02	GR2121803	4044067	27.6KV_1P_Y1/0_AL	Overhead Line	61.3	230.0000			56.2			3.6			1.6			97.98	
LTM02	GR2121804	4042441	27.6KV_1P_Y1/0_AL	Overhead Line	72.4	230.0000			28.1			1.8			0.8			97.98	
LTM02	GR2121805	4042442	27.6KV_1P_Y1/0_AL	Overhead Line	66.7	230.0000			0.1			0.0			0.0			97.98	
LTM02	GR2121806	4042443	27.6KV_1P_Y1/0_AL	Overhead Line	75.7	230.0000			0.0			0.0			0.0			97.98	
LTM02	GR2121809	4042872	27.6KV_1P_Y1/0_AL	Overhead Line	3.4	230.0000			28.1			1.8			0.8			97.98	
LTM02	GR2121810	4044068	27.6KV_1P_Y1/0_AL	Overhead Line	23.5	230.0000			28.1			1.8			0.8			97.98	
LTM02	GR2121813	4042659	27.6KV_3P_Y1/0_AL	Overhead Line	4.0	530.0000		401.0	473.2	208.1	25.7	30.3	13.3	4.8	5.7	2.5	97.95	97.98	98.18
LTM02	GR2121814	4043413	27.6KV_3P_Y1/0_AL	Overhead Line	52.2	530.0000		401.0	473.2	208.1	25.7	30.3	13.3	4.8	5.7	2.5	97.95	97.98	98.18
LTM02	GR2121815	4047149	27.6KV_3P_Y1/0_AL	Overhead Line	58.3	530.0000		401.0	473.2	208.1	25.7	30.3	13.3	4.8	5.7	2.5	97.94	97.97	98.18
LTM02	GR2121816	4042464	27.6KV_3P_Y1/0_AL	Overhead Line	56.7	530.0000		401.0	473.2	208.2	25.7	30.3	13.3	4.8	5.7	2.5	97.94	97.97	98.18
LTM02	GR2121817	4042465	27.6KV_3P_Y1/0_AL	Overhead Line	54.6	530.0000		401.0	473.2	208.2	25.7	30.3	13.3	4.8	5.7	2.5	97.93	97.97	98.18
LTM02	GR2121818	4042467	27.6KV_3P_Y1/0_AL	Overhead Line	56.2	530.0000		401.0	473.2	208.2	25.7	30.3	13.3	4.8	5.7	2.5	97.93	97.96	98.18
LTM02	GR2121819	15587313	27.6KV_1P_N1/0_AL	Overhead Line	19.1	530.0000		13.7			0.9			0.2			97.93		
LTM02	GR2121820	15587314	27.6KV_1P_N1/0_AL	Overhead Line	49.5	530.0000		13.7			0.9			0.2			97.93		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2121821	15587315	27.6KV_1P_N1/0_AL	Overhead Line	39.7	530.0000		13.7			0.9			0.2			97.93		
LTM02	GR2121822	15587316	27.6KV_1P_N1/0_AL	Overhead Line	43.5	530.0000		13.7			0.9			0.2			97.93		
LTM02	GR2121823	15587317	27.6KV_1P_N1/0_AL	Overhead Line	46.6	530.0000		13.7			0.9			0.2			97.93		
LTM02	GR2121824	15587318	27.6KV_1P_N1/0_AL	Overhead Line	46.9	530.0000		13.7			0.9			0.2			97.93		
LTM02	GR2121825	15587319	27.6KV_1P_N1/0_AL	Overhead Line	42.7	530.0000		13.8			0.9			0.2			97.93		
LTM02	GR2121826	15587320	27.6KV_1P_N1/0_AL	Overhead Line	47.4	530.0000		13.8			0.9			0.2			97.93		
LTM02	GR2121827	15587321	27.6KV_1P_N1/0_AL	Overhead Line	41.3	530.0000		13.8			0.9			0.2			97.93		
LTM02	GR2121828	15587322	27.6KV_1P_N1/0_AL	Overhead Line	32.4	530.0000		13.8			0.9			0.2			97.93		
LTM02	GR2121829	15587323	27.6KV_1P_N1/0_AL	Overhead Line	39.5	530.0000		13.8			0.9			0.2			97.93		
LTM02	GR2121830	15587324	27.6KV_1P_N1/0_AL	Overhead Line	60.4	530.0000		13.8			0.9			0.2			97.93		
LTM02	GR2121831	15587325	27.6KV_1P_N1/0_AL	Overhead Line	58.1	530.0000		13.8			0.9			0.2			97.93		
LTM02	GR2121834	4042468	27.6KV_3P_Y1/0_AL	Overhead Line	61.2	530.0000		387.4	473.2	208.2	24.8	30.3	13.3	4.7	5.7	2.5	97.92	97.96	98.18
LTM02	GR2121835	15588030	27.6KV_1P_N1/0_AL	Overhead Line	29.0	530.0000				11.7			0.7			0.1			98.18
LTM02	GR2121836	15588031	27.6KV_1P_N1/0_AL	Overhead Line	39.2	530.0000				11.7			0.7			0.1			98.18
LTM02	GR2121837	15588032	27.6KV_1P_N1/0_AL	Overhead Line	42.0	530.0000				11.7			0.7			0.1			98.18
LTM02	GR2121838	15588033	27.6KV_1P_N1/0_AL	Overhead Line	44.1	530.0000				11.7			0.7			0.1			98.18
LTM02	GR2121844	4042469	27.6KV_3P_Y1/0_AL	Overhead Line	66.2	530.0000		387.4	473.2	184.9	24.8	30.3	11.8	4.7	5.7	2.2	97.92	97.96	98.18
LTM02	GR2121845	4042470	27.6KV_3P_Y1/0_AL	Overhead Line	63.7	530.0000		387.4	473.2	184.9	24.8	30.3	11.8	4.7	5.7	2.2	97.91	97.95	98.18
LTM02	GR2121846	4044488	27.6KV_3P_Y1/0_AL	Overhead Line	63.8	530.0000		387.4	473.3	185.0	24.8	30.3	11.8	4.7	5.7	2.2	97.91	97.95	98.18
LTM02	GR2121847	4044489	27.6KV_3P_Y1/0_AL	Overhead Line	64.5	530.0000		387.4	473.3	185.0	24.8	30.3	11.8	4.7	5.7	2.2	97.90	97.95	98.18
LTM02	GR2121848	4047167	27.6KV_3P_Y1/0_AL	Overhead Line	64.2	530.0000		387.4	473.3	185.0	24.8	30.3	11.8	4.7	5.7	2.2	97.90	97.94	98.18
LTM02	GR2121849	4047168	27.6KV_3P_Y1/0_AL	Overhead Line	58.8	530.0000		387.4	473.3	185.0	24.8	30.3	11.8	4.7	5.7	2.2	97.89	97.94	98.18
LTM02	GR2121850	4048149	27.6KV_3P_Y1/0_AL	Overhead Line	60.9	530.0000		387.4	473.3	185.1	24.8	30.3	11.8	4.7	5.7	2.2	97.89	97.93	98.18
LTM02	GR2121851	4048150	27.6KV_3P_Y1/0_AL	Overhead Line	58.1	530.0000		387.4	473.3	185.1	24.8	30.3	11.8	4.7	5.7	2.2	97.88	97.93	98.18
LTM02	GR2121852	4048151	27.6KV_3P_Y1/0_AL	Overhead Line	59.2	530.0000		387.4	473.3	185.1	24.8	30.3	11.8	4.7	5.7	2.2	97.88	97.93	98.18
LTM02	GR2121853	4045073	27.6KV_3P_Y1/0_AL	Overhead Line	59.7	530.0000		387.4	473.3	185.1	24.8	30.3	11.8	4.7	5.7	2.2	97.87	97.93	98.18
LTM02	GR2121854	4048152	27.6KV_3P_Y1/0_AL	Overhead Line	58.7	530.0000		387.4	473.3	185.1	24.8	30.3	11.8	4.7	5.7	2.2	97.87	97.92	98.18
LTM02	GR2121855	4042641	27.6KV_3P_Y1/0_AL	Overhead Line	47.6	530.0000		387.4	473.3	185.2	24.8	30.3	11.8	4.7	5.7	2.2	97.87	97.92	98.18
LTM02	GR2121856	4042642	27.6KV_3P_Y1/0_AL	Overhead Line	51.6	530.0000		387.4	473.3	185.2	24.8	30.3	11.8	4.7	5.7	2.2	97.86	97.92	98.18
LTM02	GR2121857	4042643	27.6KV_3P_Y1/0_AL	Overhead Line	52.9	530.0000		387.4	473.3	185.2	24.8	30.3	11.8	4.7	5.7	2.2	97.86	97.91	98.18
LTM02	GR2121858	4042644	27.6KV_3P_Y1/0_AL	Overhead Line	55.2	530.0000		387.4	473.3	185.2	24.8	30.3	11.8	4.7	5.7	2.2	97.85	97.91	98.18
LTM02	GR2121859	4042645	27.6KV_3P_Y1/0_AL	Overhead Line	54.1	530.0000		387.4	473.4	185.2	24.8	30.3	11.8	4.7	5.7	2.2	97.85	97.91	98.18
LTM02	GR2121860	4042646	27.6KV_3P_Y1/0_AL	Overhead Line	53.2	530.0000		387.4	473.4	185.2	24.8	30.3	11.8	4.7	5.7	2.2	97.84	97.90	98.18
LTM02	GR2121861	4042647	27.6KV_3P_Y1/0_AL	Overhead Line	55.2	530.0000		387.4	473.4	185.3	24.8	30.3	11.8	4.7	5.7	2.2	97.84	97.90	98.18
LTM02	GR2121862	4042648	27.6KV_3P_Y556_ASC	Overhead Line	44.6	730.0000		387.4	473.4	185.3	24.9	30.3	11.8	3.4	4.2	1.6	97.84	97.90	98.18
LTM02	GR2121863	4042649	27.6KV_3P_Y556_ASC	Overhead Line	50.1	730.0000		387.4	473.4	185.3	24.9	30.3	11.8	3.4	4.2	1.6	97.83	97.90	98.18
LTM02	GR2121864	4042650	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		387.4	473.4	185.3	24.9	30.3	11.8	3.4	4.2	1.6	97.83	97.90	98.18
LTM02	GR2121865	18207483	27.6KV_3P_Y556_ASC	Overhead Line	45.1	730.0000		387.4	473.4	185.3	24.9	30.3	11.8	3.4	4.2	1.6	97.83	97.89	98.18
LTM02	GR2121866	4042651	27.6KV_3P_Y556_ASC	Overhead Line	53.8	730.0000		387.5	473.4	185.4	24.9	30.3	11.8	3.4	4.2	1.6	97.82	97.89	98.18
LTM02	GR2121867	4042652	27.6KV_3P_Y556_ASC	Overhead Line	50.0	730.0000		387.5	473.4	185.4	24.9	30.4	11.8	3.4	4.2	1.6	97.82	97.89	98.18
LTM02	GR2121868	4042656	27.6KV_3P_Y556_ASC	Overhead Line	53.5	730.0000		387.5	473.4	185.4	24.9	30.4	11.9	3.4	4.2	1.6	97.82	97.89	98.18
LTM02	GR2121869	4042840	27.6KV_3P_Y556_ASC	Overhead Line	48.0	730.0000		387.5	473.5	185.4	24.9	30.4	11.9	3.4	4.2	1.6	97.81	97.88	98.18
LTM02	GR2121870	4042841	27.6KV_3P_Y556_ASC	Overhead Line	49.9	730.0000		387.5	473.5	138.6	24.9	30.4	8.9	3.4	4.2	1.2	97.81	97.88	98.18
LTM02	GR2121871	18207484	27.6KV_3P_Y556_ASC	Overhead Line	59.1	730.0000		387.5	473.5	138.6	24.9	30.4	8.9	3.4	4.2	1.2	97.80	97.88	98.19
LTM02	GR2121872	18189323	27.6KV_3P_Y556_ASC	Overhead Line	58.0	730.0000		387.5	473.5	138.7	24.9	30.4	8.9	3.4	4.2	1.2	97.80	97.88	98.19
LTM02	GR2121873	18207410	27.6KV_3P_Y556_ASC	Overhead Line	44.8	730.0000		387.5	473.5	138.7	24.9	30.4	8.9	3.4	4.2	1.2	97.80	97.88	98.19
LTM02	GR2121874	17992426	27.6KV_3P_Y556_ASC	Overhead Line	7.3	730.0000		387.5	473.5	138.7	24.9	30.4	8.9	3.4	4.2	1.2	97.80	97.88	98.19
LTM02	GR2121875	18189324	27.6KV_3P_Y556_ASC	Overhead Line	54.3	730.0000		387.5	473.5	138.7	24.9	30.4	8.9	3.4	4.2	1.2	97.79	97.87	98.19
LTM02	GR2121876	18190224	27.6KV_3P_Y556_ASC	Overhead Line	35.4	730.0000		387.5	459.5	138.7	24.9	29.5	8.9	3.4	4.0	1.2	97.79	97.87	98.19
LTM02	GR2121877	18190218	27.6KV_3P_Y556_ASC	Overhead Line	34.3	730.0000		387.5	459.5	138.7	24.9	29.5	8.9	3.4	4.0	1.2	97.79	97.87	98.19
LTM02	GR2121878	10256933	27.6KV_3P_N1/0_AL	Overhead Line	4.1	530.0000		55.8	56.5	47.1	3.6	3.6	3.0	0.7	0.7	0.6	97.79	97.87	98.19
LTM02	GR2121879	10256919	27.6KV_3P_N1/0_AL	Overhead Line	66.2	530.0000		55.8	56.5	47.1	3.6	3.6	3.0	0.7	0.7	0.6	97.79	97.87	98.19
LTM02	GR2121882	18190221	27.6KV_3P_Y556_ASC	Overhead Line	53.7	730.0000		331.7	403.1	91.9	21.3	25.8	5.9	2.9	3.5	0.8	97.78	97.87	98.19
LTM02	GR2121883	18190213	27.6KV_3P_Y556_ASC	Overhead Line	58.2	730.0000		331.7	403.1	91.9	21.3	25.8	5.9	2.9	3.5	0.8	97.78	97.87	98.19
LTM02	GR2121884	18190264	27.6KV_3P_Y556_ASC	Overhead Line	49.2	730.0000		331.7	403.1	91.9	21.3	25.8	5.9	2.9	3.5	0.8	97.78	97.87	98.19
LTM02	GR2121885	18190263	27.6KV_3P_Y556_ASC	Overhead Line	52.1	730.0000		331.7	375.0	91.9	21.3	24.0	5.9	2.9	3.3	0.8	97.77	97.86	98.19
LTM02	GR2121886	18190262	27.6KV_3P_Y556_ASC	Overhead Line	50.3	730.0000		331.7	375.0	92.0	21.3	24.0	5.9	2.9	3.3	0.8	97.77	97.86	98.19
LTM02	GR2121887	18190261	27.6KV_3P_Y556_ASC	Overhead Line	52.8	730.0000		331.7	375.0	92.0	21.3	24.0	5.9	2.9	3.3	0.8	97.76	97.86	98.19
LTM02	GR2121888	18190260	27.6KV_3P_Y556_ASC	Overhead Line	47.9	730.0000		331.7	375.0	92.0	21.3	24.0	5.9	2.9	3.3	0.8	97.76	97.86	98.19
LTM02	GR2121889	18190257	27.6KV_3P_Y556_ASC	Overhead Line	50.6	730.0000		331.8	375.1	92.0	21.3	24.1	5.9	2.9	3.3	0.8	97.76	97.86	98.20
LTM02	GR2121890	18190256	27.6KV_3P_Y556_ASC	Overhead Line	44.0	730.0000		331.8	375.1	92.0	21.3	24.1	5.9	2.9	3.3	0.8	97.76	97.86	98.20
LTM02	GR2121891	18190254	27.6KV_3P_Y556_ASC	Overhead Line	48.6	730.0000		331.8	375.1	92.0	21.3	24.1	5.9	2.9	3.3	0.8	97.75	97.86	98.20
LTM02	GR2121892	18190253	27.6KV_3P_Y556_ASC	Overhead Line	49.0	730.0000		331.8	375.1	92.1	21.3	24.1	5.9	2.9	3.3	0.8	97.75	97.86	98.20
LTM02	GR2121893	18190236	27.6KV_3P_Y556_ASC	Overhead Line	53.7	730.0000		331.8	375.1	92.1	21.3	24.1	5.9	2.9	3.3	0.8	97.75	97.85	98.20
LTM02	GR2121894	18190285	27.6KV_3P_Y556_ASC	Overhead Line	43.6	730.0000		325.0	368.3	86.4	20.9	23.6	5.5	2.9	3.2	0.8	97.74	97.85	98.20
LTM02	GR2121895	13066254	27.6KV_1P_N1/0_AL	Overhead Line	23.3	530.0000			5.6			0.4			0.1			97.85	
LTM02	GR2121896	13066231	27.6KV_1P_N1/0_AL	Overhead Line	41.9	530.0000			5.6			0.4			0.1			97.85	
LTM02	GR2121897	14734602	27.6KV_1P_N1/0_AL	Overhead Line	48.4	530.0000			5.6			0.4			0.1			97.85	
LTM02	GR2121900	18190288	27.6KV_3P_Y556_ASC	Overhead Line	43.2	730.0000		325.0	334.6	86.4	20.9	21.5	5.5	2.9	2.9	0.8	97.74	97.85	98.20
LTM02	GR2121901	18190289	27.6KV_3P_Y556_ASC	Overhead Line	38.4	730.0000		325.0	334.6	86.4	20.9	21.5	5.5	2.9	2.9	0.8	97.74	97.85	98.20
LTM02	GR2121902	18190303	27.6KV_3P_Y556_ASC	Overhead Line	42.5	730.0000		325.0	334.6	86.4	20.9	21.5	5.5	2.9	2.9	0.8	97.73	97.85	98.20
LTM02	GR2121903	18190345	27.6KV_3P_Y556_ASC	Overhead Line	44.5	730.0000		311.2	334.6	86.4	20.0	21.5	5.5	2.7	2.9	0.8	97.73	97.85	98.20

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2121904	18190344	27.6KV_3P_Y556_ASC	Overhead Line	44.4	730.0000		311.2	334.6	86.4	20.0	21.5	5.5	2.7	2.9	0.8	97.73	97.85	98.20
LTM02	GR2121905	18190343	27.6KV_3P_Y556_ASC	Overhead Line	44.6	730.0000		311.2	334.6	86.4	20.0	21.5	5.5	2.7	2.9	0.8	97.73	97.85	98.20
LTM02	GR2121906	18190304	27.6KV_3P_Y556_ASC	Overhead Line	56.5	730.0000		311.2	334.7	86.5	20.0	21.5	5.5	2.7	2.9	0.8	97.72	97.85	98.20
LTM02	GR2121907	18190305	27.6KV_3P_Y556_ASC	Overhead Line	53.5	730.0000		297.4	334.7	86.5	19.1	21.5	5.5	2.6	2.9	0.8	97.72	97.85	98.20
LTM02	GR2121908	18190306	27.6KV_3P_Y556_ASC	Overhead Line	46.6	730.0000		297.4	334.7	86.5	19.1	21.5	5.5	2.6	2.9	0.8	97.72	97.84	98.20
LTM02	GR2121909	18190307	27.6KV_3P_Y556_ASC	Overhead Line	52.4	730.0000		297.4	334.7	86.5	19.1	21.5	5.5	2.6	2.9	0.8	97.71	97.84	98.20
LTM02	GR2121910	18190308	27.6KV_3P_Y556_ASC	Overhead Line	52.5	730.0000		297.4	334.7	86.5	19.1	21.5	5.5	2.6	2.9	0.8	97.71	97.84	98.20
LTM02	GR2121911	18190309	27.6KV_3P_Y556_ASC	Overhead Line	52.7	730.0000		297.4	334.7	86.5	19.1	21.5	5.5	2.6	2.9	0.8	97.71	97.84	98.20
LTM02	GR2121912	18190310	27.6KV_3P_Y556_ASC	Overhead Line	52.3	730.0000		297.4	334.8	86.6	19.1	21.5	5.5	2.6	2.9	0.8	97.70	97.84	98.21
LTM02	GR2121913	18190311	27.6KV_3P_Y556_ASC	Overhead Line	51.0	730.0000		297.4	334.8	86.6	19.1	21.5	5.5	2.6	2.9	0.8	97.70	97.84	98.21
LTM02	GR2121914	18190318	27.6KV_3P_Y556_ASC	Overhead Line	52.5	730.0000		283.6	334.8	86.6	18.2	21.5	5.5	2.5	2.9	0.8	97.70	97.84	98.21
LTM02	GR2121915	18190319	27.6KV_3P_Y556_ASC	Overhead Line	51.1	730.0000		283.6	334.8	86.6	18.2	21.5	5.5	2.5	2.9	0.8	97.70	97.84	98.21
LTM02	GR2121916	18190320	27.6KV_3P_Y556_ASC	Overhead Line	51.0	730.0000		283.6	334.8	86.6	18.2	21.5	5.5	2.5	2.9	0.8	97.69	97.83	98.21
LTM02	GR2121917	18190322	27.6KV_3P_Y556_ASC	Overhead Line	51.1	730.0000		283.6	334.8	86.6	18.2	21.5	5.5	2.5	2.9	0.8	97.69	97.83	98.21
LTM02	GR2121918	18190324	27.6KV_3P_Y556_ASC	Overhead Line	51.0	730.0000		283.6	334.9	86.7	18.2	21.5	5.5	2.5	2.9	0.8	97.69	97.83	98.21
LTM02	GR2121919	18190325	27.6KV_3P_Y556_ASC	Overhead Line	50.8	730.0000		283.6	334.9	86.7	18.2	21.5	5.5	2.5	2.9	0.8	97.68	97.83	98.21
LTM02	GR2121920	18190326	27.6KV_3P_Y556_ASC	Overhead Line	54.0	730.0000		283.6	334.9	86.7	18.2	21.5	5.5	2.5	2.9	0.8	97.68	97.83	98.21
LTM02	GR2121921	18190327	27.6KV_3P_Y556_ASC	Overhead Line	54.2	730.0000		283.7	334.9	86.7	18.2	21.5	5.5	2.5	2.9	0.8	97.68	97.83	98.21
LTM02	GR2121922	18190328	27.6KV_3P_Y556_ASC	Overhead Line	52.8	730.0000		283.7	334.9	86.7	18.2	21.5	5.5	2.5	2.9	0.8	97.68	97.83	98.21
LTM02	GR2121923	18190312	27.6KV_3P_Y556_ASC	Overhead Line	53.5	730.0000		283.7	334.9	86.7	18.2	21.5	5.5	2.5	2.9	0.8	97.67	97.82	98.21
LTM02	GR2121924	18190283	27.6KV_3P_Y556_ASC	Overhead Line	58.6	730.0000		283.7	335.0	86.8	18.2	21.5	5.5	2.5	2.9	0.8	97.67	97.82	98.21
LTM02	GR2121925	18190316	27.6KV_3P_Y556_ASC	Overhead Line	55.8	730.0000		283.7	335.0	86.8	18.2	21.5	5.5	2.5	2.9	0.8	97.67	97.82	98.21
LTM02	GR2121926	18190314	27.6KV_3P_Y556_ASC	Overhead Line	52.4	730.0000		242.1	335.0	86.8	15.6	21.5	5.5	2.1	2.9	0.8	97.66	97.82	98.21
LTM02	GR2121927	18190436	27.6KV_3P_Y556_ASC	Overhead Line	54.2	730.0000		242.1	335.0	86.8	15.6	21.5	5.5	2.1	2.9	0.8	97.66	97.82	98.22
LTM02	GR2121928	18190437	27.6KV_3P_Y556_ASC	Overhead Line	57.7	730.0000		242.1	335.0	86.8	15.6	21.5	5.5	2.1	2.9	0.8	97.66	97.82	98.22
LTM02	GR2121929	18190438	27.6KV_3P_Y556_ASC	Overhead Line	54.9	730.0000		242.1	335.1	86.9	15.6	21.5	5.6	2.1	2.9	0.8	97.66	97.82	98.22
LTM02	GR2121930	18190439	27.6KV_3P_Y556_ASC	Overhead Line	55.1	730.0000		242.2	335.1	86.9	15.6	21.5	5.6	2.1	2.9	0.8	97.65	97.81	98.22
LTM02	GR2121931	18190441	27.6KV_3P_Y556_ASC	Overhead Line	53.4	730.0000		242.2	335.1	86.9	15.6	21.5	5.6	2.1	2.9	0.8	97.65	97.81	98.22
LTM02	GR2121932	18190442	27.6KV_3P_Y556_ASC	Overhead Line	55.5	730.0000		228.3	335.1	86.9	14.7	21.5	5.6	2.0	2.9	0.8	97.65	97.81	98.22
LTM02	GR2121933	18190444	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		228.3	335.1	86.9	14.7	21.5	5.6	2.0	2.9	0.8	97.64	97.81	98.22
LTM02	GR2121934	18190445	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		228.4	335.1	87.0	14.7	21.5	5.6	2.0	2.9	0.8	97.64	97.81	98.22
LTM02	GR2121935	18190409	27.6KV_3P_Y556_ASC	Overhead Line	46.0	730.0000		228.4	335.2	87.0	14.7	21.5	5.6	2.0	2.9	0.8	97.64	97.80	98.22
LTM02	GR2121936	13013593	27.6KV_1P_N1/0_AL	Overhead Line	27.5	530.0000			13.9			0.9			0.2			97.80	
LTM02	GR2121937	13013613	27.6KV_1P_N1/0_AL	Overhead Line	77.8	530.0000			13.9			0.9			0.2			97.80	
LTM02	GR2121938	15587972	27.6KV_1P_N1/0_AL	Overhead Line	68.0	530.0000			14.0			0.9			0.2			97.80	
LTM02	GR2121939	15587973	27.6KV_1P_N1/0_AL	Overhead Line	71.2	530.0000			14.0			0.9			0.2			97.80	
LTM02	GR2121940	15587974	27.6KV_1P_N1/0_AL	Overhead Line	70.4	530.0000			14.0			0.9			0.2			97.80	
LTM02	GR2121943	18190449	27.6KV_3P_Y556_ASC	Overhead Line	46.1	730.0000		214.5	321.2	87.0	13.8	20.6	5.6	1.9	2.8	0.8	97.64	97.80	98.22
LTM02	GR2121944	18190451	27.6KV_3P_Y556_ASC	Overhead Line	48.5	730.0000		214.5	321.3	87.0	13.8	20.6	5.6	1.9	2.8	0.8	97.64	97.80	98.22
LTM02	GR2121945	18190452	27.6KV_3P_Y556_ASC	Overhead Line	43.4	730.0000		200.7	321.3	87.0	12.9	20.6	5.6	1.8	2.8	0.8	97.63	97.80	98.22
LTM02	GR2121946	18190453	27.6KV_3P_Y556_ASC	Overhead Line	59.1	730.0000		200.7	321.3	87.0	12.9	20.6	5.6	1.8	2.8	0.8	97.63	97.80	98.22
LTM02	GR2121947	18190454	27.6KV_3P_Y556_ASC	Overhead Line	42.2	730.0000		200.7	321.3	87.1	12.9	20.6	5.6	1.8	2.8	0.8	97.63	97.80	98.23
LTM02	GR2121948	18190455	27.6KV_3P_Y556_ASC	Overhead Line	41.8	730.0000		186.9	321.3	87.1	12.0	20.6	5.6	1.6	2.8	0.8	97.63	97.80	98.23
LTM02	GR2121949	18190457	27.6KV_3P_Y556_ASC	Overhead Line	56.9	730.0000		186.9	321.3	87.1	12.0	20.6	5.6	1.6	2.8	0.8	97.63	97.79	98.23
LTM02	GR2121950	18190458	27.6KV_3P_Y556_ASC	Overhead Line	56.1	730.0000		186.9	321.3	87.1	12.0	20.6	5.6	1.6	2.8	0.8	97.62	97.79	98.23
LTM02	GR2121951	18190459	27.6KV_3P_Y556_ASC	Overhead Line	57.5	730.0000		186.9	321.4	87.1	12.0	20.6	5.6	1.6	2.8	0.8	97.62	97.79	98.23
LTM02	GR2121952	18190460	27.6KV_3P_Y556_ASC	Overhead Line	38.6	730.0000		173.1	321.4	87.2	11.1	20.6	5.6	1.5	2.8	0.8	97.62	97.79	98.23
LTM02	GR2121953	18190404	27.6KV_3P_Y556_ASC	Overhead Line	39.6	730.0000		173.1	321.4	87.2	11.1	20.6	5.6	1.5	2.8	0.8	97.62	97.79	98.23
LTM02	GR2121954	13013482	27.6KV_1P_Y1/0_AL	Overhead Line	4.5	230.0000		13.8			0.9			0.4			97.62		
LTM02	GR2121955	11617035	27.6KV_1P_Y1/0_AL	Overhead Line	72.3	230.0000		13.8			0.9			0.4			97.62		
LTM02	GR2121956	11617032	27.6KV_1P_Y1/0_AL	Overhead Line	49.0	230.0000		13.9			0.9			0.4			97.62		
LTM02	GR2121959	18190463	27.6KV_3P_Y556_ASC	Overhead Line	44.4	730.0000		159.3	321.4	87.2	10.2	20.6	5.6	1.4	2.8	0.8	97.62	97.78	98.23
LTM02	GR2121960	18190464	27.6KV_3P_Y556_ASC	Overhead Line	42.5	730.0000		159.3	321.4	87.2	10.2	20.6	5.6	1.4	2.8	0.8	97.62	97.78	98.23
LTM02	GR2121961	18190467	27.6KV_3P_Y556_ASC	Overhead Line	42.7	730.0000		145.5	321.4	87.2	9.4	20.6	5.6	1.3	2.8	0.8	97.61	97.78	98.23
LTM02	GR2121962	18190468	27.6KV_3P_Y556_ASC	Overhead Line	48.2	730.0000		145.5	321.4	87.2	9.4	20.6	5.6	1.3	2.8	0.8	97.61	97.78	98.23
LTM02	GR2121963	18190469	27.6KV_3P_Y556_ASC	Overhead Line	47.9	730.0000		145.5	321.5	87.2	9.4	20.6	5.6	1.3	2.8	0.8	97.61	97.78	98.23
LTM02	GR2121964	18190470	27.6KV_3P_Y556_ASC	Overhead Line	54.5	730.0000		145.5	321.5	87.3	9.4	20.6	5.6	1.3	2.8	0.8	97.61	97.77	98.24
LTM02	GR2121965	18190471	27.6KV_3P_Y556_ASC	Overhead Line	39.4	730.0000		145.5	321.5	87.3	9.4	20.6	5.6	1.3	2.8	0.8	97.61	97.77	98.24
LTM02	GR2121966	18190473	27.6KV_3P_Y556_ASC	Overhead Line	43.3	730.0000		145.6	321.5	87.3	9.4	20.6	5.6	1.3	2.8	0.8	97.61	97.77	98.24
LTM02	GR2121967	18190474	27.6KV_3P_Y556_ASC	Overhead Line	52.7	730.0000		131.7	321.5	87.3	8.5	20.6	5.6	1.2	2.8	0.8	97.61	97.77	98.24
LTM02	GR2121968	17992395	27.6KV_3P_Y556_ASC	Overhead Line	52.5	730.0000		131.7	321.5	87.3	8.5	20.6	5.6	1.2	2.8	0.8	97.60	97.77	98.24
LTM02	GR2121969	18190475	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		131.8	321.5	87.4	8.5	20.6	5.6	1.2	2.8	0.8	97.60	97.76	98.24
LTM02	GR2121970	18190476	27.6KV_3P_Y556_ASC	Overhead Line	54.3	730.0000		131.8	321.6	87.4	8.5	20.6	5.6	1.2	2.8	0.8	97.60	97.76	98.24
LTM02	GR2121971	18190478	27.6KV_3P_Y556_ASC	Overhead Line	57.0	730.0000		131.8	321.6	87.4	8.5	20.6	5.6	1.2	2.8	0.8	97.60	97.76	98.24
LTM02	GR2121972	18190479	27.6KV_3P_Y556_ASC	Overhead Line	56.7	730.0000		131.8	321.6	87.4	8.5	20.6	5.6	1.2	2.8	0.8	97.60	97.76	98.24
LTM02	GR2121973	18190481	27.6KV_3P_Y556_ASC	Overhead Line	38.9	730.0000		131.8	321.6	87.4	8.5	20.6	5.6	1.2	2.8	0.8	97.60	97.76	98.24
LTM02	GR2121974	17992397	27.6KV_3P_Y556_ASC	Overhead Line	38.0	730.0000		118.0	321.6	87.4	7.6	20.6	5.6	1.0	2.8	0.8	97.59	97.75	98.24
LTM02	GR2121975	13014472	27.6KV_3P_Y556_AL	Overhead Line	36.0	730.0000		118.0	321.6	87.5	7.6	20.6	5.6	1.0	2.8	0.8	97.59	97.75	98.25
LTM02	GR2121976	13013374	27.6KV_3P_N556_AL	Overhead Line	3.3	730.0000		2.4	2.4	2.4	0.2	0.2	0.2	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121977	13013377	27.6KV_3P_N556_AL	Overhead Line	24.7	730.0000		2.4	2.4	2.4	0.2	0.2	0.2	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121978	19081984	27.6KV_3P_N556_AL	Overhead Line	8.0	730.0000		2.3	2.3	2.3	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121979	13013380	27.6KV_3P_N556_AL	Overhead Line	16.7	730.0000		2.3	2.3	2.3	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2121980	19081673	27.6KV_3P_N556_AL	Overhead Line	7.0	730.0000		0.8	0.8	0.8	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121981	19081674	27.6KV_3P_N556_AL	Overhead Line	7.0	730.0000		0.8	0.8	0.8	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121982	19081680	27.6KV_3P_N556_AL	Overhead Line	44.6	730.0000		2.3	2.3	2.3	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121983	13084825	27.6KV_3P_N556_AL	Overhead Line	67.1	730.0000		2.2	2.2	2.3	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121984	13085168	27.6KV_3P_N556_AL	Overhead Line	65.2	730.0000		2.2	2.2	2.2	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121985	13084826	27.6KV_3P_N556_AL	Overhead Line	63.0	730.0000		2.1	2.1	2.1	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121986	13084827	27.6KV_3P_N556_AL	Overhead Line	60.3	730.0000		2.0	2.0	2.0	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121987	13084828	27.6KV_3P_N556_AL	Overhead Line	62.8	730.0000		2.0	2.0	2.0	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121988	13084829	27.6KV_3P_N556_AL	Overhead Line	56.3	730.0000		1.9	1.9	1.9	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121989	13084830	27.6KV_3P_N556_AL	Overhead Line	58.8	730.0000		1.8	1.8	1.9	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121990	13084831	27.6KV_3P_N556_AL	Overhead Line	53.6	730.0000		1.8	1.8	1.8	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121991	13084832	27.6KV_3P_N556_AL	Overhead Line	52.4	730.0000		1.7	1.7	1.7	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121992	13084833	27.6KV_3P_N556_AL	Overhead Line	41.0	730.0000		1.7	1.7	1.7	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121993	13084834	27.6KV_3P_N556_AL	Overhead Line	39.0	730.0000		1.6	1.6	1.6	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121994	13084835	27.6KV_3P_N556_AL	Overhead Line	81.9	730.0000		1.6	1.6	1.6	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121995	13084837	27.6KV_3P_N556_AL	Overhead Line	64.7	730.0000		1.5	1.5	1.5	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121996	13084841	27.6KV_3P_N556_AL	Overhead Line	63.1	730.0000		1.4	1.4	1.4	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121997	13084842	27.6KV_3P_N556_AL	Overhead Line	57.1	730.0000		1.4	1.4	1.4	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121998	13084844	27.6KV_3P_N556_AL	Overhead Line	55.9	730.0000		1.3	1.3	1.3	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2121999	13084845	27.6KV_3P_N556_AL	Overhead Line	55.2	730.0000		1.3	1.3	1.3	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122000	13084847	27.6KV_3P_N556_AL	Overhead Line	59.9	730.0000		1.2	1.2	1.2	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122001	13084849	27.6KV_3P_N556_AL	Overhead Line	62.7	730.0000		1.1	1.1	1.1	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122002	13084850	27.6KV_3P_N556_AL	Overhead Line	74.7	730.0000		1.1	1.1	1.1	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122003	13084851	27.6KV_3P_N556_AL	Overhead Line	76.7	730.0000		1.0	1.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122004	13084852	27.6KV_3P_N556_AL	Overhead Line	73.9	730.0000		0.9	0.9	0.9	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122005	13084853	27.6KV_3P_N556_AL	Overhead Line	76.2	730.0000		0.8	0.8	0.8	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122006	13084854	27.6KV_3P_N556_AL	Overhead Line	73.9	730.0000		0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122007	13084855	27.6KV_3P_N556_AL	Overhead Line	70.0	730.0000		0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122008	13084856	27.6KV_3P_N556_AL	Overhead Line	76.0	730.0000		0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122009	13084892	27.6KV_3P_N556_AL	Overhead Line	37.7	730.0000		0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122010	13084857	27.6KV_3P_N556_AL	Overhead Line	42.1	730.0000		0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122011	13084858	27.6KV_3P_N556_AL	Overhead Line	47.2	730.0000		0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122012	13084859	27.6KV_3P_N556_AL	Overhead Line	69.8	730.0000		0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122013	13084860	27.6KV_3P_N556_AL	Overhead Line	55.9	730.0000		0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122014	13084861	27.6KV_3P_N556_AL	Overhead Line	60.7	730.0000		0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122015	13084862	27.6KV_3P_N556_AL	Overhead Line	61.4	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122016	13084863	27.6KV_3P_N556_AL	Overhead Line	60.6	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122017	13084864	27.6KV_3P_N556_AL	Overhead Line	73.9	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122024	13082465	BUS27.6KV_3P_0A__AIR	Overhead Line	0.1	0.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	97.59	97.75	98.25
LTM02	GR2122025	19081679	27.6KV_3P_N556_AL	Overhead Line	4.0	730.0000		1.5	1.5	1.5	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122026	13084823	27.6KV_3P_N556_AL	Overhead Line	4.0	730.0000		1.5	1.5	1.5	0.1	0.1	0.1	0.0	0.0	0.0	97.59	97.75	98.25
LTM02	GR2122027	18126590	27.6KV_3P_Y556_ASC	Overhead Line	24.1	730.0000		118.9	322.6	88.3	7.6	20.7	5.6	1.0	2.8	0.8	97.59	97.75	98.25
LTM02	GR2122028	18126589	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		118.9	322.6	88.3	7.6	20.7	5.6	1.0	2.8	0.8	97.59	97.75	98.25
LTM02	GR2122029	18126588	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		118.9	322.6	88.3	7.6	20.7	5.6	1.0	2.8	0.8	97.59	97.75	98.25
LTM02	GR2122030	18126587	27.6KV_3P_Y556_ASC	Overhead Line	52.2	730.0000		118.9	322.6	88.4	7.6	20.7	5.6	1.0	2.8	0.8	97.59	97.74	98.25
LTM02	GR2122031	18126586	27.6KV_3P_Y556_ASC	Overhead Line	47.9	730.0000		119.0	322.6	88.4	7.7	20.7	5.6	1.0	2.8	0.8	97.59	97.74	98.25
LTM02	GR2122032	18126585	27.6KV_3P_Y556_ASC	Overhead Line	39.0	730.0000		119.0	322.7	88.4	7.7	20.7	5.6	1.0	2.8	0.8	97.59	97.74	98.25
LTM02	GR2122033	18126443	27.6KV_3P_Y556_ASC	Overhead Line	45.3	730.0000		119.0	322.7	88.4	7.7	20.7	5.6	1.0	2.8	0.8	97.58	97.74	98.25
LTM02	GR2122034	18126584	27.6KV_3P_Y556_ASC	Overhead Line	44.6	730.0000		119.0	308.7	88.4	7.7	19.8	5.6	1.0	2.7	0.8	97.58	97.74	98.25
LTM02	GR2122035	18126583	27.6KV_3P_Y556_ASC	Overhead Line	49.9	730.0000		119.0	308.7	88.5	7.7	19.8	5.7	1.0	2.7	0.8	97.58	97.73	98.25
LTM02	GR2122036	18126582	27.6KV_3P_Y556_ASC	Overhead Line	46.1	730.0000		119.0	308.7	88.5	7.7	19.8	5.7	1.0	2.7	0.8	97.58	97.73	98.25
LTM02	GR2122037	18126446	27.6KV_3P_Y556_ASC	Overhead Line	40.1	730.0000		119.1	308.7	88.5	7.7	19.8	5.7	1.0	2.7	0.8	97.58	97.73	98.25
LTM02	GR2122038	18126581	27.6KV_3P_Y556_ASC	Overhead Line	49.6	730.0000		119.1	294.7	88.5	7.7	18.9	5.7	1.0	2.6	0.8	97.58	97.73	98.26
LTM02	GR2122039	18126580	27.6KV_3P_Y556_ASC	Overhead Line	45.9	730.0000		119.1	294.7	88.5	7.7	18.9	5.7	1.0	2.6	0.8	97.58	97.73	98.26
LTM02	GR2122040	18126579	27.6KV_3P_Y556_ASC	Overhead Line	40.8	730.0000		119.1	294.7	88.6	7.7	18.9	5.7	1.0	2.6	0.8	97.58	97.72	98.26
LTM02	GR2122041	18126578	27.6KV_3P_Y556_ASC	Overhead Line	42.0	730.0000		119.1	294.7	88.6	7.7	18.9	5.7	1.0	2.6	0.8	97.58	97.72	98.26
LTM02	GR2122042	18126191	27.6KV_3P_Y556_ASC	Overhead Line	48.7	730.0000		119.1	294.7	88.6	7.7	18.9	5.7	1.0	2.6	0.8	97.57	97.72	98.26
LTM02	GR2122043	18126577	27.6KV_3P_Y556_ASC	Overhead Line	38.5	730.0000		119.2	280.8	88.6	7.7	18.0	5.7	1.0	2.5	0.8	97.57	97.72	98.26
LTM02	GR2122044	18126576	27.6KV_3P_Y556_ASC	Overhead Line	47.1	730.0000		119.2	280.8	88.6	7.7	18.0	5.7	1.0	2.5	0.8	97.57	97.72	98.26
LTM02	GR2122045	18126449	27.6KV_3P_Y556_ASC	Overhead Line	50.5	730.0000		119.2	280.8	88.6	7.7	18.0	5.7	1.1	2.5	0.8	97.57	97.72	98.26
LTM02	GR2122046	18126575	27.6KV_3P_Y556_ASC	Overhead Line	34.4	730.0000		119.2	252.7	88.7	7.7	16.2	5.7	1.1	2.2	0.8	97.57	97.71	98.26
LTM02	GR2122047	18126574	27.6KV_3P_Y556_ASC	Overhead Line	35.6	730.0000		119.2	252.7	88.7	7.7	16.2	5.7	1.1	2.2	0.8	97.57	97.71	98.26
LTM02	GR2122048	18126573	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		119.2	252.7	88.7	7.7	16.2	5.7	1.1	2.2	0.8	97.57	97.71	98.26
LTM02	GR2122049	18126572	27.6KV_3P_Y556_ASC	Overhead Line	46.7	730.0000		119.3	252.7	88.7	7.7	16.2	5.7	1.1	2.2	0.8	97.57	97.71	98.26
LTM02	GR2122050	18126450	27.6KV_3P_Y556_ASC	Overhead Line	48.7	730.0000		119.3	252.7	88.7	7.7	16.2	5.7	1.1	2.2	0.8	97.57	97.71	98.26
LTM02	GR2122051	18126571	27.6KV_3P_Y556_ASC	Overhead Line	47.2	730.0000		119.3	224.6	88.7	7.7	14.4	5.7	1.1	2.0	0.8	97.56	97.71	98.26
LTM02	GR2122052	18126286	27.6KV_3P_Y556_ASC	Overhead Line	41.3	730.0000		119.3	224.7	88.8	7.7	14.4	5.7	1.1	2.0	0.8	97.56	97.71	98.26
LTM02	GR2122053	18126570	27.6KV_3P_Y556_ASC	Overhead Line	47.6	730.0000		119.3	210.7	88.8	7.7	13.5	5.7	1.1	1.9	0.8	97.56	97.70	98.26
LTM02	GR2122054	18126569	27.6KV_3P_Y556_ASC	Overhead Line	51.7	730.0000		119.3	210.7	88.8	7.7	13.5	5.7	1.1	1.9	0.8	97.56	97.70	98.26
LTM02	GR2122055	18000158	27.6KV_3P_Y556_ASC	Overhead Line	32.4	730.0000		119.4	210.7	88.8	7.7	13.5	5.7	1.1	1.9	0.8	97.56	97.70	98.26
LTM02	GR2122056	18126456	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		119.4	210.7	88.8	7.7	13.5	5.7	1.1	1.9	0.8	97.56	97.70	98.26
LTM02	GR2122057	18126289	27.6KV_3P_Y556_ASC	Overhead Line	43.2	730.0000		119.4	182.6	88.9	7.7	11.7	5.7	1.1	1.6	0.8	97.56	97.70	98.26

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2122058	18126568	27.6KV_3P_Y556_ASC	Overhead Line	50.8	730.0000		119.4	168.6	88.9	7.7	10.8	5.7	1.1	1.5	0.8	97.56	97.70	98.26
LTM02	GR2122059	18126567	27.6KV_3P_Y556_ASC	Overhead Line	57.0	730.0000		119.4	168.7	88.9	7.7	10.8	5.7	1.1	1.5	0.8	97.56	97.70	98.26
LTM02	GR2122060	18126566	27.6KV_3P_Y556_ASC	Overhead Line	52.0	730.0000		119.5	168.7	88.9	7.7	10.8	5.7	1.1	1.5	0.8	97.56	97.70	98.26
LTM02	GR2122061	18126465	27.6KV_3P_Y556_ASC	Overhead Line	52.6	730.0000		119.5	168.7	88.9	7.7	10.8	5.7	1.1	1.5	0.8	97.55	97.70	98.26
LTM02	GR2122062	18126565	27.6KV_3P_Y556_ASC	Overhead Line	59.5	730.0000		119.5	140.6	89.0	7.7	9.0	5.7	1.1	1.2	0.8	97.55	97.70	98.26
LTM02	GR2122063	18126564	27.6KV_3P_Y556_ASC	Overhead Line	47.9	730.0000		119.5	140.6	89.0	7.7	9.0	5.7	1.1	1.2	0.8	97.55	97.69	98.26
LTM02	GR2122064	18126563	27.6KV_3P_Y556_ASC	Overhead Line	54.0	730.0000		119.5	140.6	89.0	7.7	9.0	5.7	1.1	1.2	0.8	97.55	97.69	98.26
LTM02	GR2122065	18126562	27.6KV_3P_Y556_ASC	Overhead Line	41.3	730.0000		119.6	140.7	89.0	7.7	9.0	5.7	1.1	1.2	0.8	97.55	97.69	98.26
LTM02	GR2122066	18126561	27.6KV_3P_Y556_ASC	Overhead Line	43.5	730.0000		119.6	140.7	89.0	7.7	9.0	5.7	1.1	1.2	0.8	97.55	97.69	98.26
LTM02	GR2122067	18126560	27.6KV_3P_Y556_ASC	Overhead Line	41.6	730.0000		119.6	140.7	89.1	7.7	9.0	5.7	1.1	1.2	0.8	97.55	97.69	98.26
LTM02	GR2122068	18126559	27.6KV_3P_Y556_ASC	Overhead Line	45.0	730.0000		119.6	140.7	89.1	7.7	9.0	5.7	1.1	1.2	0.8	97.55	97.69	98.26
LTM02	GR2122069	18126558	27.6KV_3P_Y556_ASC	Overhead Line	50.0	730.0000		119.6	140.7	89.1	7.7	9.0	5.7	1.1	1.2	0.8	97.55	97.69	98.26
LTM02	GR2122070	18000160	27.6KV_3P_Y556_ASC	Overhead Line	43.9	730.0000		119.6	140.7	89.1	7.7	9.0	5.7	1.1	1.2	0.8	97.55	97.69	98.26
LTM02	GR2122071	18000159	27.6KV_3P_Y556_ASC	Overhead Line	55.7	730.0000		119.7	140.8	89.2	7.7	9.0	5.7	1.1	1.2	0.8	97.55	97.69	98.26
LTM02	GR2122072	18126323	27.6KV_3P_Y556_ASC	Overhead Line	49.8	730.0000		119.7	140.8	77.5	7.7	9.0	4.9	1.1	1.2	0.7	97.55	97.69	98.26
LTM02	GR2122073	18126557	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		119.7	140.8	77.5	7.7	9.0	5.0	1.1	1.2	0.7	97.54	97.69	98.26
LTM02	GR2122074	18126556	27.6KV_3P_Y556_ASC	Overhead Line	50.9	730.0000		119.7	140.8	77.5	7.7	9.0	5.0	1.1	1.2	0.7	97.54	97.69	98.26
LTM02	GR2122075	17992790	27.6KV_1P_Y2_ACSR	Overhead Line	21.7	530.0000			14.0			0.9			0.2			97.69	
LTM02	GR2122076	15587343	27.6KV_1P_Y1/0_AL	Overhead Line	69.0	230.0000			14.0			0.9			0.4			97.69	
LTM02	GR2122077	15587344	27.6KV_1P_Y1/0_AL	Overhead Line	71.8	230.0000			14.0			0.9			0.4			97.69	
LTM02	GR2122078	15587345	27.6KV_1P_Y1/0_AL	Overhead Line	50.8	230.0000			14.0			0.9			0.4			97.69	
LTM02	GR2122081	17992791	27.6KV_3P_Y556_ASC	Overhead Line	53.0	730.0000		119.7	126.9	77.6	7.7	8.2	5.0	1.1	1.1	0.7	97.54	97.69	98.26
LTM02	GR2122082	18126555	27.6KV_3P_Y556_ASC	Overhead Line	54.3	730.0000		119.8	126.9	77.6	7.7	8.2	5.0	1.1	1.1	0.7	97.54	97.69	98.26
LTM02	GR2122083	18126554	27.6KV_3P_Y556_ASC	Overhead Line	41.3	730.0000		119.8	126.9	77.6	7.7	8.2	5.0	1.1	1.1	0.7	97.54	97.69	98.26
LTM02	GR2122084	18126553	27.6KV_3P_Y556_ASC	Overhead Line	50.0	730.0000		119.8	126.9	77.6	7.7	8.2	5.0	1.1	1.1	0.7	97.54	97.69	98.26
LTM02	GR2122085	18126552	27.6KV_3P_Y556_ASC	Overhead Line	49.7	730.0000		119.8	127.0	77.6	7.7	8.2	5.0	1.1	1.1	0.7	97.54	97.68	98.26
LTM02	GR2122086	18126551	27.6KV_3P_Y556_ASC	Overhead Line	52.4	730.0000		119.8	127.0	77.7	7.7	8.2	5.0	1.1	1.1	0.7	97.54	97.68	98.26
LTM02	GR2122087	18126550	27.6KV_3P_Y556_ASC	Overhead Line	54.3	730.0000		119.9	127.0	77.7	7.7	8.2	5.0	1.1	1.1	0.7	97.54	97.68	98.26
LTM02	GR2122088	18126549	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		119.9	127.0	77.7	7.7	8.2	5.0	1.1	1.1	0.7	97.54	97.68	98.26
LTM02	GR2122089	18126548	27.6KV_3P_Y556_ASC	Overhead Line	54.3	730.0000		119.9	127.1	77.7	7.7	8.2	5.0	1.1	1.1	0.7	97.54	97.68	98.26
LTM02	GR2122090	18126547	27.6KV_3P_Y556_ASC	Overhead Line	53.8	730.0000		119.9	127.1	77.7	7.7	8.2	5.0	1.1	1.1	0.7	97.53	97.68	98.26
LTM02	GR2122091	18126546	27.6KV_3P_Y556_ASC	Overhead Line	50.0	730.0000		119.9	127.1	77.8	7.7	8.2	5.0	1.1	1.1	0.7	97.53	97.68	98.26
LTM02	GR2122092	18126545	27.6KV_3P_Y556_ASC	Overhead Line	54.0	730.0000		120.0	127.1	77.8	7.7	8.2	5.0	1.1	1.1	0.7	97.53	97.68	98.26
LTM02	GR2122093	18126544	27.6KV_3P_Y556_ASC	Overhead Line	50.0	730.0000		120.0	127.1	77.8	7.7	8.2	5.0	1.1	1.1	0.7	97.53	97.68	98.26
LTM02	GR2122094	18126543	27.6KV_3P_Y556_ASC	Overhead Line	54.0	730.0000		120.0	127.2	77.8	7.7	8.2	5.0	1.1	1.1	0.7	97.53	97.68	98.26
LTM02	GR2122095	18126542	27.6KV_3P_Y556_ASC	Overhead Line	51.9	730.0000		120.0	127.2	77.9	7.7	8.2	5.0	1.1	1.1	0.7	97.53	97.68	98.26
LTM02	GR2122096	18126541	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		120.0	127.2	77.9	7.7	8.2	5.0	1.1	1.1	0.7	97.53	97.68	98.26
LTM02	GR2122097	18126540	27.6KV_3P_Y556_ASC	Overhead Line	50.8	730.0000		120.1	127.2	77.9	7.7	8.2	5.0	1.1	1.1	0.7	97.53	97.68	98.26
LTM02	GR2122098	18126539	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		120.1	127.3	77.9	7.7	8.2	5.0	1.1	1.1	0.7	97.53	97.68	98.26
LTM02	GR2122099	18126538	27.6KV_3P_Y556_ASC	Overhead Line	50.1	730.0000		120.1	127.3	77.9	7.7	8.2	5.0	1.1	1.1	0.7	97.53	97.68	98.26
LTM02	GR2122100	18126537	27.6KV_3P_Y556_ASC	Overhead Line	49.5	730.0000		120.1	127.3	78.0	7.7	8.2	5.0	1.1	1.1	0.7	97.52	97.68	98.26
LTM02	GR2122101	18126536	27.6KV_3P_Y556_ASC	Overhead Line	45.0	730.0000		120.1	127.3	78.0	7.7	8.2	5.0	1.1	1.1	0.7	97.52	97.68	98.26
LTM02	GR2122102	18126535	27.6KV_3P_Y556_ASC	Overhead Line	40.1	730.0000		120.2	127.3	78.0	7.7	8.2	5.0	1.1	1.1	0.7	97.52	97.67	98.26
LTM02	GR2122103	18126314	27.6KV_3P_Y556_ASC	Overhead Line	52.5	730.0000		120.2	113.3	78.0	7.7	7.3	5.0	1.1	1.0	0.7	97.52	97.67	98.26
LTM02	GR2122104	18126534	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		120.2	113.3	78.0	7.7	7.3	5.0	1.1	1.0	0.7	97.52	97.67	98.26
LTM02	GR2122105	18126533	27.6KV_3P_Y556_ASC	Overhead Line	54.5	730.0000		120.2	113.4	78.1	7.7	7.3	5.0	1.1	1.0	0.7	97.52	97.67	98.26
LTM02	GR2122106	18126532	27.6KV_3P_Y556_ASC	Overhead Line	54.9	730.0000		120.2	113.4	78.1	7.7	7.3	5.0	1.1	1.0	0.7	97.52	97.67	98.26
LTM02	GR2122107	18126531	27.6KV_3P_Y556_ASC	Overhead Line	55.3	730.0000		120.3	113.4	78.1	7.7	7.3	5.0	1.1	1.0	0.7	97.52	97.67	98.26
LTM02	GR2122108	18126302	27.6KV_3P_Y556_ASC	Overhead Line	48.6	730.0000		120.3	107.8	78.1	7.7	6.9	5.0	1.1	0.9	0.7	97.52	97.67	98.26
LTM02	GR2122109	18126530	27.6KV_3P_Y556_ASC	Overhead Line	54.9	730.0000		120.3	107.8	78.1	7.7	6.9	5.0	1.1	0.9	0.7	97.52	97.67	98.26
LTM02	GR2122110	18126529	27.6KV_3P_Y556_ASC	Overhead Line	49.9	730.0000		120.3	107.9	78.2	7.7	6.9	5.0	1.1	0.9	0.7	97.52	97.67	98.25
LTM02	GR2122111	18126528	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		120.3	107.9	78.2	7.7	6.9	5.0	1.1	0.9	0.7	97.52	97.67	98.25
LTM02	GR2122112	18126527	27.6KV_3P_Y556_ASC	Overhead Line	49.9	730.0000		120.4	107.9	78.2	7.7	6.9	5.0	1.1	0.9	0.7	97.51	97.67	98.25
LTM02	GR2122113	18126526	27.6KV_3P_Y556_ASC	Overhead Line	51.9	730.0000		120.4	107.9	78.2	7.7	6.9	5.0	1.1	0.9	0.7	97.51	97.67	98.25
LTM02	GR2122114	18097317	27.6KV_3P_Y556_ASC	Overhead Line	3.3	730.0000		93.0	94.1	78.4	6.0	6.0	5.0	0.8	0.8	0.7	97.51	97.67	98.25
LTM02	GR2122119	18105046	27.6KV_3P_Y556_ASC	Overhead Line	56.1	730.0000		27.4	13.9	0.4	1.8	0.9	0.0	0.2	0.1	0.0	97.51	97.67	98.25
LTM02	GR2122120	18097319	27.6KV_3P_Y556_ASC	Overhead Line	54.2	730.0000		27.4	13.9	0.3	1.8	0.9	0.0	0.2	0.1	0.0	97.51	97.67	98.25
LTM02	GR2122121	18126523	27.6KV_3P_Y556_ASC	Overhead Line	40.2	730.0000		27.5	13.9	0.3	1.8	0.9	0.0	0.2	0.1	0.0	97.51	97.67	98.25
LTM02	GR2122122	15446140	27.6KV_3P_Y556_ASC	Overhead Line	53.0	730.0000		0.2	14.0	0.2	0.0	0.9	0.0	0.0	0.1	0.0	97.51	97.67	98.25
LTM02	GR2122123	17990532	27.6KV_3P_Y556_ASC	Overhead Line	47.7	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.51	97.67	98.25
LTM02	GR2122124	17990530	27.6KV_3P_Y556_ASC	Overhead Line	36.5	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.51	97.67	98.25
LTM02	GR2122125	18000071	27.6KV_3P_Y556_ASC	Overhead Line	5.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.51	97.67	98.25
LTM02	GR2122126	18000090	27.6KV_3P_Y556_ASC	Overhead Line	11.2	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.51	97.67	98.25
LTM02	GR2122129	18039238	27.6KV_3P_Y556_ASC	Overhead Line	46.5	730.0000		27.5	0.0	0.0	1.8	0.0	0.0	0.2	0.0	0.0	97.51	97.67	98.25
LTM02	GR2122130	17993068	DEFAULT	Overhead Line	4.2	1000.0000		27.6			1.8			0.2			97.51		
LTM02	GR2122131	15446126	DEFAULT	Overhead Line	3.6	1000.0000		27.6			1.8			0.2			97.51		
LTM02	GR2122132	15588138	27.6KV_1P_N1/0_AL	Overhead Line	71.1	530.0000		27.6			1.8			0.3			97.51		
LTM02	GR2122133	15588139	27.6KV_1P_N1/0_AL	Overhead Line	63.0	530.0000		27.6			1.8			0.3			97.51		
LTM02	GR2122134	15588179	27.6KV_1P_N1/0_AL	Overhead Line	64.8	530.0000		13.7			0.9			0.2			97.51		
LTM02	GR2122135	15588181	27.6KV_1P_N1/0_AL	Overhead Line	72.8	530.0000		13.8			0.9			0.2			97.51		
LTM02	GR2122136	15588182	27.6KV_1P_N1/0_AL	Overhead Line	73.9	530.0000		13.8			0.9			0.2			97.51		
LTM02	GR2122137	15588183	27.6KV_1P_N1/0_AL	Overhead Line	73.8	530.0000		13.8			0.9			0.2			97.51		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2122138	15588184	27.6KV_1P_N1/0_AL	Overhead Line	75.0	530.0000		13.8			0.9			0.2			97.51		
LTM02	GR2122139	15588185	27.6KV_1P_N1/0_AL	Overhead Line	71.7	530.0000		13.8			0.9			0.2			97.51		
LTM02	GR2122150	4032763	27.6KV_1P_Y1/0_AL	Overhead Line	21.3	230.0000				0.1			0.0			0.0			98.26
LTM02	GR2122151	4032602	27.6KV_1P_Y1/0_AL	Overhead Line	49.1	230.0000				0.1			0.0			0.0			98.26
LTM02	GR2122152	4033013	27.6KV_1P_Y1/0_AL	Overhead Line	55.9	230.0000				0.0			0.0			0.0			98.26
LTM02	GR2122155	4034243	27.6KV_1P_Y1/0_AL	Overhead Line	80.2	230.0000				0.1			0.0			0.0			98.26
LTM02	GR2122158	4033144	27.6KV_1P_Y1/0_AL	Overhead Line	4.6	230.0000			14.0			0.9			0.4			97.70	
LTM02	GR2122159	17992738	27.6KV_1P_Y1/0_AL	Overhead Line	60.6	230.0000			14.0			0.9			0.4			97.70	
LTM02	GR2122164	4044601	27.6KV_1P_Y1/0_AL	Overhead Line	4.3	230.0000			14.0			0.9			0.4			97.71	
LTM02	GR2122165	17992698	27.6KV_1P_Y1/0_AL	Overhead Line	17.0	230.0000			14.0			0.9			0.4			97.71	
LTM02	GR2122166	4044598	27.6KV_1P_Y1/0_AL	Overhead Line	31.3	230.0000			14.0			0.9			0.4			97.71	
LTM02	GR2122167	4044599	27.6KV_1P_Y1/0_AL	Overhead Line	42.7	230.0000			14.0			0.9			0.4			97.71	
LTM02	GR2122168	4044600	27.6KV_1P_Y1/0_AL	Overhead Line	41.6	230.0000			14.0			0.9			0.4			97.71	
LTM02	GR2122175	4033019	27.6KV_1P_Y1/0_AL	Overhead Line	4.0	230.0000			14.0			0.9			0.4			97.72	
LTM02	GR2122176	18126202	27.6KV_1P_Y1/0_AL	Overhead Line	64.1	230.0000			14.0			0.9			0.4			97.72	
LTM02	GR2122177	4033141	27.6KV_1P_Y1/0_AL	Overhead Line	77.6	230.0000			14.0			0.9			0.4			97.72	
LTM02	GR2122184	4045471	27.6KV_1P_Y1/0_AL	Overhead Line	54.1	230.0000				0.0			0.0			0.0			98.24
LTM02	GR2122201	4043049	27.6KV_1P_Y1/0_AL	Overhead Line	84.6	230.0000		27.8			1.8			0.8			97.67		
LTM02	GR2122202	4046869	27.6KV_1P_Y1/0_AL	Overhead Line	33.0	230.0000		27.8			1.8			0.8			97.67		
LTM02	GR2122215	4042710	27.6KV_3P_Y1/0_AL	Overhead Line	15.8	530.0000		6.8	6.9	5.7	0.4	0.4	0.4	0.1	0.1	0.1	97.75	97.85	98.20
LTM02	GR2122216	4042711	27.6KV_3P_Y1/0_AL	Overhead Line	38.3	530.0000		6.8	6.9	5.7	0.4	0.4	0.4	0.1	0.1	0.1	97.75	97.85	98.20
LTM02	GR2122217	4047042	27.6KV_3P_Y1/0_AL	Overhead Line	41.5	530.0000		6.8	6.9	5.8	0.4	0.4	0.4	0.1	0.1	0.1	97.75	97.85	98.20
LTM02	GR2122218	4042712	27.6KV_3P_Y1/0_AL	Overhead Line	39.2	530.0000		6.8	6.9	5.8	0.4	0.4	0.4	0.1	0.1	0.1	97.75	97.85	98.20
LTM02	GR2122223	4044366	27.6KV_1P_Y1/0_AL	Overhead Line	18.5	230.0000			14.0			0.9			0.4			97.87	
LTM02	GR2122224	4045842	27.6KV_1P_Y1/0_AL	Overhead Line	29.7	230.0000			14.0			0.9			0.4			97.87	
LTM02	GR2122227	18189326	27.6KV_1P_Y1/0_AL	Overhead Line	17.0	230.0000				0.0			0.0			0.0			98.19
LTM02	GR2122228	18207409	27.6KV_1P_Y1/0_AL	Overhead Line	12.7	230.0000				0.0			0.0			0.0			98.19
LTM02	GR2122229	18207463	27.6KV_1P_Y1/0_AL	Overhead Line	36.6	230.0000				0.0			0.0			0.0			98.19
LTM02	GR2120521	GLTE0683-4063111	27.6KV_600V_1500_3P	Two-Winding Transformer	0.0		1500.00	250.5	274.1	273.7	16.0	17.5	17.5	49.1	53.8	53.5	96.30	95.97	96.29
LTM02	GR2120525	X24418-1655093	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.8			1.8			54.7			96.61		
LTM02	GR2120552	CP9-13126623	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	55.9	56.5	47.1	3.6	3.6	3.0	54.7	55.3	46.3	96.07	96.01	96.35
LTM02	GR2120556	UNKNOWN-1654079	27.6KV_347V_750_3P	Two-Winding Transformer	0.0		750.00	139.4	141.0	117.5	8.9	9.0	7.5	54.7	55.3	46.3	96.28	96.23	96.53
LTM02	GR2120559	X16488-1653658	27.6KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	27.9	28.2	23.5	1.8	1.8	1.5	54.7	55.3	46.3	96.34	96.29	96.58
LTM02	GR2120585	TP11555-15607918	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	55.9	56.5	47.1	3.6	3.6	3.0	54.7	55.3	46.3	96.02	95.96	96.30
LTM02	GR2120591	X16481-1653610	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		21.1			1.4			55.3			96.42	
LTM02	GR2120593	X16480-1653557	27.6KV_347V/600V_225_3P	Two-Winding Transformer	0.0		225.00	41.9	42.4	35.3	2.7	2.7	2.3	54.7	55.3	46.3	96.02	95.96	96.29
LTM02	GR2120598	GLTE3150-1658281	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	55.9	56.5	47.1	3.6	3.6	3.0	54.7	55.3	46.3	96.02	95.96	96.29
LTM02	GR2120600	X16477-1653560	27.6KV_600V_225_3P	Two-Winding Transformer	0.0		225.00	41.9	42.4	35.3	2.7	2.7	2.3	54.7	55.3	46.3	96.02	95.96	96.30
LTM02	GR2120602	X16474-1653585	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.8			1.8			54.7			96.48		
LTM02	GR2120604	X16470-1653741	27.6KV_347V_225_3P	Two-Winding Transformer	0.0		225.00	41.9	42.4	35.3	2.7	2.7	2.3	54.7	55.3	46.3	96.03	95.97	96.30
LTM02	GR2120606	X16469-1655237	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.2			3.6			55.3			96.43	
LTM02	GR2120633	TP9945-13193241	27.6KV_347V/600V_500_3P	Two-Winding Transformer	0.0		500.00	83.7	92.0	90.0	5.4	5.9	5.8	49.3	54.2	53.0	96.22	95.93	96.20
LTM02	GR2120639	X16461-1653594	27.6KV_347V/600V_200_3P	Two-Winding Transformer	0.0		200.00	37.2	37.7	31.4	2.4	2.4	2.0	54.7	55.3	46.3	95.95	95.87	96.17
LTM02	GR2120641	X16460-1653565	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.58	
LTM02	GR2120643	X16457-1655234	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		8.4			0.5			55.3			96.33	
LTM02	GR2120645	X16453-1655176	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			23.5			1.5			46.3			96.55
LTM02	GR2120647	X16449-1655137	27.6KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	27.9	28.2	23.5	1.8	1.8	1.5	54.7	55.3	46.3	96.23	96.15	96.40
LTM02	GR2120649	X16448-1655112	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.59	
LTM02	GR2120661	TP12850-18001956	27.6KV_347V/600V_750_3P	Two-Winding Transformer	0.0		750.00	139.4	141.0	117.5	8.9	9.0	7.5	54.7	55.3	46.3	96.12	96.04	96.29
LTM02	GR2120669	X47417-13968729	27.6KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	27.9	28.2	23.5	1.8	1.8	1.5	54.7	55.3	46.3	96.17	96.08	96.29
LTM02	GR2120684	X24423-1654864	27.6KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	27.9	28.2	23.5	1.8	1.8	1.5	54.7	55.3	46.3	96.05	95.93	96.09
LTM02	GR2120735	TP14429-18988939	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	55.9	56.5	47.1	3.6	3.6	3.0	54.7	55.3	46.3	95.58	95.41	95.53
LTM02	GR2120745	X16115-1654237	27.6KV_347V/600V_75_3P	Two-Winding Transformer	0.0		75.00	13.9	14.1	11.7	0.9	0.9	0.8	54.7	55.3	46.3	96.05	95.89	95.92
LTM02	GR2120764	TN8943-11647381	27.6KV_347V/600V_1500_3P	Two-Winding Transformer	0.0		1500.00	247.8	250.7	209.0	16.0	16.2	13.5	48.6	49.2	41.1	95.64	95.44	95.47
LTM02	GR2120780	GL002034-1654431	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.6			0.4			55.3			95.59	
LTM02	GR2120794	TP6339-11309927	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	55.9	56.5	47.1	3.6	3.7	3.1	54.7	55.3	46.3	95.24	95.01	94.92
LTM02	GR2120806	TP14229-18203519	27.6KV_347V/600V_750_3P	Two-Winding Transformer	0.0		750.00	139.4	141.0	117.6	9.0	9.1	7.6	54.7	55.3	46.3	95.39	95.15	94.98
LTM02	GR2120815	TP13310-18117008	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			95.00
LTM02	GR2120820	TP13312-18117104	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			95.00
LTM02	GR2120825	TP13313-18117115	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			94.99
LTM02	GR2120830	TP13314-18117114	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			94.99
LTM02	GR2120835	TP13315-18117111	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			94.99
LTM02	GR2120840	TP12320-16478353	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.57		
LTM02	GR2120845	TP12319-16478352	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.56		
LTM02	GR2120851	TP12318-16478390	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.53		
LTM02	GR2120856	TP12317-16478389	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.51		
LTM02	GR2120861	TP12316-16478387	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.50		
LTM02	GR2120866	TP12315-16478378	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.50		
LTM02	GR2120871	TP12312-16478374	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.48		
LTM02	GR2120876	TP12311-16478371	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.47		
LTM02	GR2120881	TP12310-16478392	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.47		
LTM02	GR2120887	TP12321-16478351	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.6			55.3			95.29	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2120893	TP12322-16478348	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.6			55.3			95.26	
LTM02	GR2120898	TP12323-16478255	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.6			55.3			95.21	
LTM02	GR2120903	TP12333-16478437	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.6			55.3			95.18	
LTM02	GR2120908	TP13779-18191952	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		28.1			1.8			55.3			95.15	
LTM02	GR2120913	TP13778-18191203	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		94.0			6.1			55.3			95.07	
LTM02	GR2120918	TP13777-18191201	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		42.2			2.7			55.3			95.13	
LTM02	GR2120923	TP13776-18192239	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		42.2			2.7			55.3			95.12	
LTM02	GR2120928	TP13775-18192240	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.11	
LTM02	GR2120933	TP13774-18192241	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.10	
LTM02	GR2120938	TP13773-18192242	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.10	
LTM02	GR2120962	GL000265-1653742	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.7			0.8			46.3			95.14
LTM02	GR2120984	X25836-16416423	27.6KV_347V/600V_112.5_3P	Two-Winding Transformer	0.0		112.50	20.9	21.1	17.6	1.4	1.4	1.1	54.7	55.3	46.3	95.36	95.08	94.76
LTM02	GR2120986	X47706-14644003	27.6KV_347V/600V_225_3P	Two-Winding Transformer	0.0		225.00	41.9	42.4	35.3	2.7	2.7	2.3	54.7	55.3	46.3	95.09	94.80	94.53
LTM02	GR2120988	X47703-14644010	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			23.5			1.5			46.3			94.91
LTM02	GR2121008	TP12299-16478370	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.46		
LTM02	GR2121013	TP12300-16478366	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.44		
LTM02	GR2121021	TP12301-16478364	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.36		
LTM02	GR2121026	TP12302-16478365	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.36		
LTM02	GR2121031	TP12303-16478360	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.34		
LTM02	GR2121036	TP12304-16478354	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.33		
LTM02	GR2121041	TP12305-16478355	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.33		
LTM02	GR2121046	TP12306-16478356	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.32		
LTM02	GR2121051	TP12307-16478395	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	93.0			6.0			54.7			95.24		
LTM02	GR2121056	TP12308-16478394	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.31		
LTM02	GR2121061	TP12309-16478393	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.30		
LTM02	GR2121068	TP12313-16478376	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.82
LTM02	GR2121073	TP12314-16478345	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.81
LTM02	GR2121078	TP13319-18117117	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.79
LTM02	GR2121083	TP13318-18117119	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.79
LTM02	GR2121088	TP13317-18117109	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			35.2			2.3			46.3			94.78
LTM02	GR2121093	TP13316-18117108	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			94.72
LTM02	GR2121102	TP12324-16478396	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.6			55.3			95.20	
LTM02	GR2121107	TP12325-16478398	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.6			55.3			95.19	
LTM02	GR2121112	TP12329-16478441	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.6			55.3			95.16	
LTM02	GR2121117	TP12330-16478438	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.6			55.3			95.14	
LTM02	GR2121122	TP12327-16478443	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.12	
LTM02	GR2121127	TP12326-16478400	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.10	
LTM02	GR2121132	TP12328-16478407	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.10	
LTM02	GR2121137	TP12331-16478435	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.09	
LTM02	GR2121142	TP12332-16478436	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.09	
LTM02	GR2121164	TP13757-18190960	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.84
LTM02	GR2121169	TP13758-18190948	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			94.76
LTM02	GR2121174	TP13759-18190947	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			94.76
LTM02	GR2121179	TP13760-18190949	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.81
LTM02	GR2121184	TP13761-18191014	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			94.74
LTM02	GR2121189	TP13762-18191043	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			94.74
LTM02	GR2121199	TP13828-18133729	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.6			55.3			95.22	
LTM02	GR2121212	TP13827-18133728	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.82
LTM02	GR2121217	TP13826-18133726	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.82
LTM02	GR2121222	TP13825-18133724	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			94.73
LTM02	GR2121238	TP13377-18100471	27.6KV_347V/600V_500_3P	Two-Winding Transformer	0.0		500.00	93.0	94.1	78.5	6.0	6.1	5.1	54.7	55.3	46.3	95.20	94.88	94.54
LTM02	GR2121247	TP12454-17242248	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.71
LTM02	GR2121252	TP12460-17242320	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.68
LTM02	GR2121257	TP12556-17242323	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.63
LTM02	GR2121262	TP12464-17242326	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			94.51
LTM02	GR2121267	TP12480-17242348	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.52
LTM02	GR2121272	TP12498-17242344	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.50
LTM02	GR2121277	TP12559-17242346	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.49
LTM02	GR2121282	TP12476-17242347	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.47
LTM02	GR2121287	TP12501-17242369	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.41
LTM02	GR2121292	TP12502-17242370	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.40
LTM02	GR2121298	TP12483-17242439	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.34
LTM02	GR2121303	TP12486-17242429	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.32
LTM02	GR2121308	TP12487-17242437	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.30
LTM02	GR2121313	TP12488-17242435	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			47.0			3.1			46.3			94.28
LTM02	GR2121318	TP12493-17242436	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			47.0			3.1			46.3			94.27
LTM02	GR2121323	TP12494-17242363	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			47.0			3.1			46.3			94.24
LTM02	GR2121328	TP12489-17242433	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			47.0			3.1			46.3			94.23
LTM02	GR2121333	TP12513-17242432	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			47.0			3.1			46.3			94.22
LTM02	GR2121338	TP12490-17242404	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.5			5.2			46.3			94.13
LTM02	GR2121343	TP12491-17242405	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			47.0			3.1			46.3			94.18
LTM02	GR2121348	TP12492-17242406	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			47.0			3.1			46.3			94.18

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2121353	TP12504-17242373	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			47.0			3.1			46.3			94.17
LTM02	GR2121358	TP12512-17242372	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			47.0			3.1			46.3			94.17
LTM02	GR2121366	TP12455-17242274	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.6			55.3			95.17	
LTM02	GR2121371	TP12459-17242321	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.6			55.3			95.16	
LTM02	GR2121376	TP12463-17242325	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.13	
LTM02	GR2121381	TP12465-17242328	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.10	
LTM02	GR2121386	TP12497-17242327	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.10	
LTM02	GR2121391	TP12477-17242368	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.07	
LTM02	GR2121396	TP12560-17242365	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.06	
LTM02	GR2121401	TP12499-17242366	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.06	
LTM02	GR2121406	TP12561-17242367	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.06	
LTM02	GR2121411	TP12503-17242371	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.7			55.3			95.05	
LTM02	GR2121418	TP12456-17242245	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.50		
LTM02	GR2121423	TP12481-17242280	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.49		
LTM02	GR2121428	TP12458-18060686	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.47		
LTM02	GR2121433	TP12461-18060689	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.46		
LTM02	GR2121438	TP12462-18060687	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.46		
LTM02	GR2121443	TP12557-18060685	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.45		
LTM02	GR2121448	TP12457-18060673	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.44		
LTM02	GR2121453	TP12468-18060677	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.43		
LTM02	GR2121458	TP12469-18060683	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.42		
LTM02	GR2121463	TP12470-18060680	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.42		
LTM02	GR2121468	TP12558-18060678	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.42		
LTM02	GR2121473	TP12471-18060672	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.42		
LTM02	GR2121478	TP12467-18060665	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.41		
LTM02	GR2121483	TP12466-18060669	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.41		
LTM02	GR2121490	X39073-12988487	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.7			0.8			46.3			95.03
LTM02	GR2121497	GL000798-1654147	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.6			0.4			55.3			95.23	
LTM02	GR2121499	X34483-1685758	27.6KV_120V/240V_37_1P	Two-Winding Transformer	0.0		37.00	20.6			1.3			54.7			95.53		
LTM02	GR2121507	TP13480-18154908	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			35.2			2.3			46.3			94.84
LTM02	GR2121512	TP13479-18154881	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			94.77
LTM02	GR2121517	TP13478-18153704	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.83
LTM02	GR2121525	TP13764-18191087	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.80
LTM02	GR2121530	TP13763-18191070	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			78.4			5.1			46.3			94.74
LTM02	GR2121542	TP13771-18190943	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.3			3.6			55.3			95.17	
LTM02	GR2121547	TP13821-18133736	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		42.2			2.7			55.3			95.17	
LTM02	GR2121552	TP13822-18133717	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		42.2			2.7			55.3			95.17	
LTM02	GR2121557	TP13772-18190944	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		42.2			2.7			55.3			95.17	
LTM02	GR2121561	TP13765-18191194	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	93.0			6.0			54.7			95.33		
LTM02	GR2121566	TP13766-18191195	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	93.0			6.0			54.7			95.31		
LTM02	GR2121572	TP13767-18191199	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	93.0			6.0			54.7			95.29		
LTM02	GR2121577	TP13768-18191200	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.34		
LTM02	GR2121582	TP13769-18191202	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	93.0			6.0			54.7			95.26		
LTM02	GR2121587	TP13770-18191446	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	55.6			3.6			54.7			95.33		
LTM02	GR2121599	TP13823-18133722	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.1			46.3			94.80
LTM02	GR2121604	TP13824-18133723	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			35.2			2.3			46.3			94.79
LTM02	GR2121609	X68183-1654820	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			95.53	
LTM02	GR2121611	X15589-1654033	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.6			0.4			55.3			95.30	
LTM02	GR2121613	X15590-1654721	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			95.57	
LTM02	GR2121615	X34574-14734764	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.7			2.7			54.7			95.58		
LTM02	GR2121617	X34573-16406942	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			35.2			2.3			46.3			95.08
LTM02	GR2121619	X15594-19087118	27.6KV_120V/240V_-1_1P	Two-Winding Transformer	0.0		50.00			0.0			0.0			0.0			96.44
LTM02	GR2121624	X24352-1654167	27.6KV_UNKNOWN_150_3P	Two-Winding Transformer	0.0		150.00	27.4	27.7	23.2	1.8	1.8	1.5	18.2	18.4	15.4	97.03	96.82	96.34
LTM02	GR2121630	X15597-1654351	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			95.67	
LTM02	GR2121632	X15600-1654352	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.8			1.8			54.7			95.68		
LTM02	GR2121634	X15656-1654293	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		28.1			1.8			55.3			95.50	
LTM02	GR2121640	X24353-4062086	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			95.98		
LTM02	GR2121642	X24373-1653630	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			95.98		
LTM02	GR2121644	X15658-1654044	27.6KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	27.9	28.2	23.5	1.8	1.8	1.5	54.7	55.3	46.3	95.56	95.34	95.23
LTM02	GR2121646	X15660-1654173	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			4.7			0.3			46.3			95.44
LTM02	GR2121648	X15663-1654183	27.6KV_120V/208V_75_3P	Two-Winding Transformer	0.0		75.00	13.9	14.1	11.7	0.9	0.9	0.8	54.7	55.3	46.3	95.81	95.61	95.52
LTM02	GR2121650	GL003749-1654766	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		28.1			1.8			55.3			95.63	
LTM02	GR2121652	X15665-1654563	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			4.7			0.3			46.3			95.59
LTM02	GR2121654	X15666-1653944	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		8.4			0.5			55.3			95.68	
LTM02	GR2121656	X44635-1654802	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.6			0.4			55.3			95.75	
LTM02	GR2121658	X15671-1654165	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		21.1			1.4			55.3			95.79	
LTM02	GR2121660	X15674-1653939	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			35.2			2.3			46.3			95.86
LTM02	GR2121662	X16444-1654199	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			23.5			1.5			46.3			96.00
LTM02	GR2121664	X16443-1653640	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	5.6			0.4			54.7			96.11		
LTM02	GR2121678	TNS2960-T1-13069744	27.6KV_347V/600V_1000_3P	Two-Winding Transformer	0.0		1000.00	186.2	188.3	157.0	12.0	12.1	10.1	54.7	55.3	46.3	95.71	95.56	95.72
LTM02	GR2121681	X16439-1655041	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.7			0.8			46.3			96.32
LTM02	GR2121683	X16433-1655191	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			23.5			1.5			46.3			96.32

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
LTM02	GR2121685	X16432-1655013	27.6KV_347V/600V_75_3P	Two-Winding Transformer	0.0		75.00	13.9	14.1	11.7	0.9	0.9	0.8	54.7	55.3	46.3	96.29	96.20	96.35
LTM02	GR2121687	X2082-1674429	27.6KV_347V_225_3P	Two-Winding Transformer	0.0		225.00	41.9	42.4	35.3	2.7	2.7	2.3	54.7	55.3	46.3	95.86	95.75	96.00
LTM02	GR2121689	X16423-1655219	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.71		
LTM02	GR2121691	X16493-1655270	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.84		
LTM02	GR2121722	X42116-11373108	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.7			0.7			46.3			97.07
LTM02	GR2121724	X42357-18090433	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.8			1.8			54.7			96.55		
LTM02	GR2121738	X67915-18097248	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			4.7			0.3			46.3			96.85
LTM02	GR2121740	X67914-19060325	27.6KV_347V/600V_112.5_3P	Two-Winding Transformer	0.0		112.50	20.9	21.1	17.6	1.3	1.4	1.1	54.7	55.3	46.3	96.37	96.35	96.71
LTM02	GR2121742	X67907-18049414	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			4.7			0.3			46.3			96.86
LTM02	GR2121744	X42102-11373121	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.79	
LTM02	GR2121749	TP6748-11358944	27.6KV_347V/600V_1500_3P	Two-Winding Transformer	0.0		1500.00	279.5	282.7	235.6	17.9	18.1	15.1	54.7	55.3	46.3	96.04	96.01	96.44
LTM02	GR2121767	TN11069-15481681	27.6KV_347V/600V_2000_3P	Two-Winding Transformer	0.0		2000.00	369.8	374.0	312.1	23.7	23.9	20.0	54.7	55.3	46.3	96.73	96.72	97.05
LTM02	GR2121769	X56919-15481700	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.75		
LTM02	GR2121792	X18012-1653983	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		56.2			3.6			55.3			96.40	
LTM02	GR2121796	X18013-1655113	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		28.1			1.8			55.3			96.40	
LTM02	GR2121807	X58016-15579676	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		28.1			1.8			55.3			96.39	
LTM02	GR2121811	UNKNOWN-1654367	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		28.1			1.8			55.3			96.39	
LTM02	GR2121832	7595-15579980	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.63		
LTM02	GR2121839	UNKNOWN-15588035	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.7			0.7			46.3			97.10
LTM02	GR2121842	X16533-1654363	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.7			0.7			46.3			97.10
LTM02	GR2121880	X24715-1654084	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	55.9	56.5	47.1	3.6	3.6	3.0	54.7	55.3	46.3	95.78	95.82	96.52
LTM02	GR2121898	UNKNOWN-15587989	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.6			0.4			55.3			96.26	
LTM02	GR2121941	UNKNOWN-15587982	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.47	
LTM02	GR2121957	X24719-1653577	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.31		
LTM02	GR2122023	GRST2	DEFAULT	Two-Winding Transformer	0.0		5000.00												
LTM02	GR2122024	GRST1	DEFAULT	Two-Winding Transformer	0.0		5000.00												
LTM02	GR2122079	UNKNOWN-15587353	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.35	
LTM02	GR2122117	TP13506-18097298	27.6KV_347V/600V_500_3P	Two-Winding Transformer	0.0		500.00	93.0	94.1	78.4	6.0	6.0	5.0	54.7	55.3	46.3	95.62	95.74	96.69
LTM02	GR2122127	X60722-4063115	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.33	
LTM02	GR2122140	X58045-15588160	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.20		
LTM02	GR2122142	X58039-15588192	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.21		
LTM02	GR2122144	X60710-17992889	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.6			0.4			55.3			96.08	
LTM02	GR2122146	X60704-17992863	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.34	
LTM02	GR2122148	X60674-17992776	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.7			0.7			46.3			97.18
LTM02	GR2122153	UNKNOWN-4062143	27.6KV_120V/240V_-1_1P	Two-Winding Transformer	0.0		50.00			0.0			0.0			0.0			98.26
LTM02	GR2122156	X60662-17992751	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		28.1			1.8			55.3			96.10	
LTM02	GR2122160	X24722-1655289	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.36	
LTM02	GR2122162	X60657-17992731	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		28.1			1.8			55.3			96.11	
LTM02	GR2122169	X24821_DUPLICATE-4062142	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.37	
LTM02	GR2122171	X60649-17992690	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		28.1			1.8			55.3			96.11	
LTM02	GR2122173	X60644-17992666	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		28.1			1.8			55.3			96.12	
LTM02	GR2122178	X24720-1654568	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.38	
LTM02	GR2122180	X60635-17992632	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.39	
LTM02	GR2122182	X60631-17992592	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.40	
LTM02	GR2122185	X43190-13013058	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.29		
LTM02	GR2122187	X43183-13013055	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.30		
LTM02	GR2122189	X43177-13013050	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.31		
LTM02	GR2122191	X43173-13013047	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.32		
LTM02	GR2122193	X43169-13013045	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.33		
LTM02	GR2122195	X43166-13013003	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.33		
LTM02	GR2122197	X43164-13013000	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.34		
LTM02	GR2122199	X43160-13012983	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.35		
LTM02	GR2122203	UNKNOWN-1654450	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.8			1.8			54.7			96.10		
LTM02	GR2122205	X43154-13012941	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.36		
LTM02	GR2122207	X42566-13013741	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.40		
LTM02	GR2122209	X42559-13012931	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.42		
LTM02	GR2122211	X42555-13012928	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.43		
LTM02	GR2122213	X42552-13012926	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		28.1			1.8			55.3			96.26	
LTM02	GR2122219	UNKNOWN-4061901	27.6KV_UNKNOWN_37.5_3P	Two-Winding Transformer	0.0		37.50	6.9	6.9	5.8	0.4	0.4	0.4	18.2	18.4	15.4	97.59	97.69	98.07
LTM02	GR2122221	X60613-17992534	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		28.1			1.8			55.3			96.28	
LTM02	GR2122225	X23283-4061963	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.54	
LTM02	GR2122230	X70870-15573446	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			46.9			3.0			46.3			96.88
LTM02	GR2122232	X18001-1655110	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		8.4			0.5			55.3			96.40	
LTM02	GR2122234	X18004-1654154	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			96.66	
LTM02	GR2122236	X18094-1654092	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	5.6			0.4			54.7			96.49		
LTM02	GR2122238	X56614-14626297	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			96.99		
LTM02	GR2122240	X22205-1654189	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.9			0.9			54.7			97.21		
LTM02	GR2122242	X22203-11458877	27.6KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	27.8	28.2	23.5	1.8	1.8	1.5	54.7	55.3	46.3	96.89	96.85	97.17
LTM02	GR2122244	X22202-4062756	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		14.0			0.9			55.3			97.33	
LTM02	GR2122246	X22197-1654905	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		8.4			0.5			55.3			97.24	
LTM02	GR2122248	X59228-1654130	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.6			0.4			55.3			98.30	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
RHNF3	GR187999	16455236	BUS8.32KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	100.00	100.00
RHNF3	GR188000	13467459	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		542.9	638.8	403.4	113.0	133.0	84.0	18.8	22.2	14.0	100.00	100.00	100.00
RHNF3	GR152582	5500125	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		542.9	638.8	403.4	113.0	133.0	84.0	18.8	22.2	14.0	100.00	100.00	100.00
RHNF3	GR152583	13473911	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		542.9	638.8	403.4	113.0	133.0	84.0	18.8	22.2	14.0	100.00	100.00	100.00
RHNF3	GR152584	5558057	8.32KV_3P_350_CU_XLPE	Cable	2.1	390.0000		542.9	638.8	403.4	113.0	133.0	84.0	29.0	34.1	21.5	100.00	100.00	100.00
RHNF3	GR152585	5508080	8.32KV_3P_350_CU_XLPE	Cable	50.8	390.0000		542.9	638.8	403.4	113.0	133.0	84.0	29.0	34.1	21.5	99.97	99.95	99.97
RHNF3	GR152685	5558242	8.32KV_1P_2/0_AL_XLPE	Cable	97.0	220.0000			75.4			16.7			7.6			94.02	
RHNF3	GR152690	5508070	8.32KV_1P_2/0_AL_XLPE	Cable	96.8	220.0000			56.6			12.5			5.7			94.00	
RHNF3	GR152695	5508071	8.32KV_1P_2/0_AL_XLPE	Cable	141.2	220.0000			37.7			8.3			3.8			93.98	
RHNF3	GR152700	5508072	8.32KV_1P_2/0_AL_XLPE	Cable	118.2	220.0000			18.8			4.2			1.9			93.98	
RHNF3	GR152760	18986823	8.32KV_1P_1/0_AL_XLPE	Cable	211.3	220.0000		12.0			2.7			1.2			93.35		
RHNF3	GR153203	11241287	8.32KV_3P_2/0_AL_XLPE	Cable	46.5	265.0000		27.4	27.4	27.4	6.2	6.1	5.8	2.3	2.3	2.2	92.64	93.52	97.85
RHNF3	GR153212	5510435	8.32KV_1P_2/0_AL_XLPE	Cable	4.2	220.0000				5.5			1.2			0.5			97.85
RHNF3	GR153213	11240844	8.32KV_1P_2/0_AL_XLPE	Cable	36.5	220.0000				5.5			1.2			0.5			97.85
RHNF3	GR153218	11241255	8.32KV_3P_2/0_AL_XLPE	Cable	11.0	265.0000		11.9	9.4	5.5	2.7	2.1	1.2	1.0	0.8	0.4	92.40	93.41	97.85
RHNF3	GR153247	11241651	8.32KV_1P_2/0_AL_XLPE	Cable	63.0	220.0000			9.4			2.1			1.0			93.11	
RHNF3	GR153254	16478184	8.32KV_3P_3/0_AL_XLPE	Cable	30.0	265.0000		59.9	18.8	10.9	13.6	4.2	2.3	5.1	1.6	0.9	91.77	93.13	97.84
RHNF3	GR153255	16478187	8.32KV_2P_2/0_AL_XLPE	Cable	20.1	265.0000		59.9		10.9	13.6		2.3	5.1		0.9	91.76		97.84
RHNF3	GR153256	5512016	8.32KV_1P_2/0_AL_XLPE	Cable	151.4	220.0000		59.9			13.6			6.2			91.73		
RHNF3	GR153261	5512017	8.32KV_1P_2/0_AL_XLPE	Cable	120.5	220.0000		35.9			8.1			3.7			91.72		
RHNF3	GR153266	5512018	8.32KV_1P_2/0_AL_XLPE	Cable	119.5	220.0000		12.0			2.7			1.2			91.71		
RHNF3	GR153270	5560705	8.32KV_1P_2/0_AL_XLPE	Cable	86.4	220.0000				10.9			2.3			1.1			97.84
RHNF3	GR153275	5512404	8.32KV_1P_2/0_AL_XLPE	Cable	156.8	220.0000			18.8			4.2			1.9			93.11	
RHNF3	GR153307	5509896	8.32KV_1P_2/0_AL_XLPE	Cable	128.5	220.0000			47.1			10.6			4.8			92.87	
RHNF3	GR153312	12939423	8.32KV_1P_2/0_AL_XLPE	Cable	219.8	220.0000			37.7			8.5			3.8			92.84	
RHNF3	GR153317	12939418	8.32KV_1P_2/0_AL_XLPE	Cable	213.0	220.0000			28.3			6.3			2.9			92.82	
RHNF3	GR153322	12939413	8.32KV_1P_2/0_AL_XLPE	Cable	172.5	220.0000			9.4			2.1			1.0			92.81	
RHNF3	GR153327	12939409	8.32KV_1P_2/0_AL_XLPE	Cable	91.8	220.0000			0.0			0.0			0.0			92.81	
RHNF3	GR153328	11557575	8.32KV_1P_2/0_AL_XLPE	Cable	107.1	220.0000			0.0			0.0			0.0			92.81	
RHNF3	GR153334	12939384	8.32KV_1P_2/0_AL_XLPE	Cable	155.2	220.0000			51.9			11.6			5.3			92.94	
RHNF3	GR153339	12939394	8.32KV_1P_2/0_AL_XLPE	Cable	225.5	220.0000			37.7			8.4			3.8			92.91	
RHNF3	GR153344	15467683	8.32KV_1P_2/0_AL_XLPE	Cable	138.8	220.0000			28.3			6.3			2.9			92.90	
RHNF3	GR153345	14658872	8.32KV_1P_1/0_AL_XLPE	Cable	260.1	220.0000			28.3			6.3			2.9			92.87	
RHNF3	GR153350	14658886	8.32KV_1P_1/0_AL_XLPE	Cable	260.1	220.0000			9.4			2.1			1.0			92.86	
RHNF3	GR153351	11557644	8.32KV_1P_2/0_AL_XLPE	Cable	25.8	220.0000			9.4			2.1			1.0			92.86	
RHNF3	GR153362	5510462	8.32KV_3P_2/0_AL_XLPE	Cable	26.8	265.0000		23.9	18.9	10.9	5.4	4.2	2.3	2.0	1.6	0.9	91.76	93.14	97.84
RHNF3	GR153363	5508597	8.32KV_1P_2/0_AL_XLPE	Cable	197.5	220.0000		23.9			5.4			2.5			91.74		
RHNF3	GR153368	5512020	8.32KV_1P_2/0_AL_XLPE	Cable	177.0	220.0000		12.0			2.7			1.2			91.73		
RHNF3	GR153373	5512019	8.32KV_1P_2/0_AL_XLPE	Cable	175.0	220.0000		0.0			0.0			0.0			91.73		
RHNF3	GR153375	5511789	8.32KV_2P_2/0_AL_XLPE	Cable	1.1	265.0000			18.9	10.9		4.2	2.3		1.6	0.9		93.14	97.84
RHNF3	GR153376	5511288	8.32KV_1P_2/0_AL_XLPE	Cable	34.8	220.0000				10.9			2.3			1.1			97.84
RHNF3	GR153381	5560704	8.32KV_1P_2/0_AL_XLPE	Cable	138.8	220.0000				0.0			0.0			0.0			97.84
RHNF3	GR153382	5512402	8.32KV_1P_2/0_AL_XLPE	Cable	738.9	220.0000			18.9			4.2			1.9			93.09	
RHNF3	GR153387	5512403	8.32KV_1P_2/0_AL_XLPE	Cable	89.1	220.0000			0.0			0.0			0.0			93.09	
RHNF3	GR153443	11239436	8.32KV_1P_2/0_AL_XLPE	Cable	46.7	220.0000		41.9			9.6			4.4			90.79		
RHNF3	GR153529	5510507	8.32KV_1P_2/0_AL_XLPE	Cable	92.6	220.0000		18.0			4.1			1.9			90.75		
RHNF3	GR153578	5512780	8.32KV_1P_2/0_AL_XLPE	Cable	183.8	220.0000			75.5			16.8			7.6			93.53	
RHNF3	GR153583	5511179	8.32KV_1P_2/0_AL_XLPE	Cable	149.8	220.0000			56.6			12.6			5.7			93.50	
RHNF3	GR153588	5511389	8.32KV_1P_2/0_AL_XLPE	Cable	146.7	220.0000			37.7			8.4			3.8			93.48	
RHNF3	GR153593	5511390	8.32KV_1P_2/0_AL_XLPE	Cable	520.8	220.0000			18.9			4.2			1.9			93.44	
RHNF3	GR153598	5508430	8.32KV_1P_2/0_AL_XLPE	Cable	154.3	220.0000			0.0			0.0			0.0			93.44	
RHNF3	GR153659	18164026	8.32KV_1P_1/0_AL_XLPE	Cable	204.1	220.0000				10.9			2.3			1.1			97.12
RHNF3	GR152586	12940925	8.32KV_3P_N1/0_AL	Overhead Line	7.0	230.0000		542.7	638.5	403.3	113.0	133.0	84.0	49.1	57.8	36.5	99.96	99.95	99.97
RHNF3	GR152587	12940926	8.32KV_3P_Y3/0_AL	Overhead Line	49.9	270.0000		542.6	638.5	403.3	113.0	133.0	84.0	41.9	49.3	31.1	99.88	99.87	99.94
RHNF3	GR152588	5557943	8.32KV_3P_Y3/0_AL	Overhead Line	62.2	270.0000		542.2	638.0	403.1	113.0	133.0	84.0	41.9	49.3	31.1	99.78	99.77	99.89
RHNF3	GR152589	5557944	8.32KV_3P_Y3/0_AL	Overhead Line	61.9	270.0000		541.7	637.4	403.0	113.0	133.0	84.0	41.9	49.3	31.1	99.68	99.67	99.85
RHNF3	GR152590	5557945	8.32KV_3P_Y3/0_AL	Overhead Line	72.7	270.0000		541.1	636.7	402.8	113.0	133.0	84.0	41.9	49.3	31.1	99.56	99.56	99.80
RHNF3	GR152591	5508439	8.32KV_3P_Y3/0_AL	Overhead Line	79.2	270.0000		540.5	636.0	402.6	113.0	133.0	84.0	41.9	49.3	31.1	99.43	99.43	99.75
RHNF3	GR152592	5508440	8.32KV_3P_Y3/0_AL	Overhead Line	76.1	270.0000		539.8	635.2	402.4	113.0	133.0	84.0	41.9	49.3	31.1	99.31	99.31	99.70
RHNF3	GR152593	5508441	8.32KV_3P_Y3/0_AL	Overhead Line	72.3	270.0000		539.1	634.5	402.2	113.0	133.0	84.0	41.9	49.3	31.1	99.19	99.20	99.65
RHNF3	GR152594	5508442	8.32KV_3P_Y3/0_AL	Overhead Line	62.2	270.0000		538.5	633.7	402.0	113.0	133.0	84.0	41.9	49.3	31.1	99.09	99.10	99.60
RHNF3	GR152595	5508443	8.32KV_3P_Y3/0_AL	Overhead Line	73.0	270.0000		537.9	633.1	401.8	113.0	133.0	84.0	41.9	49.3	31.1	98.97	98.99	99.55
RHNF3	GR152596	5508444	8.32KV_3P_Y3/0_AL	Overhead Line	73.1	270.0000		537.3	632.4	401.6	113.0	133.0	84.0	41.9	49.3	31.1	98.85	98.87	99.51
RHNF3	GR152597	5511700	8.32KV_3P_Y3/0_AL	Overhead Line	74.9	270.0000		533.1	631.7	401.4	112.3	133.0	84.0	41.6	49.3	31.1	98.73	98.76	99.45
RHNF3	GR152598	5508445	8.32KV_3P_Y3/0_AL	Overhead Line	72.7	270.0000		532.4	629.0	401.2	112.3	132.6	84.0	41.6	49.1	31.1	98.62	98.64	99.40
RHNF3	GR152599	5508446	8.32KV_3P_Y3/0_AL	Overhead Line	73.7	270.0000		531.8	628.3	401.0	112.3	132.6	84.0	41.6	49.1	31.1	98.50	98.53	99.35
RHNF3	GR152600	5508447	8.32KV_3P_Y3/0_AL	Overhead Line	80.6	270.0000		531.2	627.6	400.8	112.3	132.6	84.0	41.6	49.1	31.1	98.37	98.40	99.30
RHNF3	GR152601	5508448	8.32KV_3P_Y3/0_AL	Overhead Line	79.7	270.0000		530.5	626.8	400.6	112.3	132.6	84.0	41.6	49.1	31.1	98.24	98.28	99.25
RHNF3	GR152602	5508449	8.32KV_3P_Y3/0_AL	Overhead Line	65.6	270.0000		529.8	619.4	400.4	112.3	131.2	84.0	41.6	48.6	31.1	98.14	98.17	99.20
RHNF3	GR152603	5511069	8.32KV_3P_Y3/0_AL	Overhead Line	67.4	270.0000		529.2	618.8	400.2	112.3	131.2	84.0	41.6	48.6	31.1	98.03	98.07	99.15
RHNF3	GR152604	5558678	8.32KV_3P_Y3/0_AL	Overhead Line	70.2	270.0000		528.7	616.2	400.0	112.3	130.8	84.0	41.6	48.4	31.1	97.92	97.96	99.10
RHNF3	GR152605	5558679	8.32KV_3P_Y3/0_AL	Overhead Line	69.2	270.0000		528.1	615.6	399.8	112.3	130.8	84.0	41.6	48.4	31.1	97.81	97.86	99.06
RHNF3	GR152606	5561029	8.32KV_3P_Y3/0_AL	Overhead Line	67.9	270.0000		527.5	614.9	399.6	112.3	130.8	84.0	41.6	48.4	31.1	97.70	97.75	99.01
RHNF3	GR152607	5561030	8.32KV_3P_Y3/0_AL	Overhead Line	68.0	270.0000		526.9	614.2	399.4	112.3	130.8	84.0	41.6	48.4	31.1	97.59	97.65	98.96
RHNF3	GR152608	5561031	8.32KV_1P_Y1/0_AL	Overhead Line	2.4	230.0000			4.7			1.0			0.4			97.65	
RHNF3	GR152609	11251035	8.32KV_1P_Y1/0_AL	Overhead Line	18.7	230.0000			4.7			1.0			0.4			97.65	
RHNF3	GR152610	5559049	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000			4.7			1.0			0.4			97.65	
RHNF3	GR152611	5559050	8.32KV_1P_Y1/0_AL	Overhead Line	41.1	230.0000			4.7			1.0			0.4			97.65	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
RHNF3	GR152614	5561032	8.32KV_3P_Y3/0_AL	Overhead Line	65.4	270.0000		526.3	608.9	399.2	112.3	129.8	84.0	41.6	48.1	31.1	97.49	97.55	98.92
RHNF3	GR152615	5561033	8.32KV_3P_Y3/0_AL	Overhead Line	65.9	270.0000		525.8	608.3	399.1	112.3	129.8	84.0	41.6	48.1	31.1	97.38	97.45	98.87
RHNF3	GR152616	5561034	8.32KV_3P_Y3/0_AL	Overhead Line	63.3	270.0000		525.2	607.6	398.9	112.3	129.8	84.0	41.6	48.1	31.1	97.28	97.35	98.82
RHNF3	GR152617	5561035	8.32KV_3P_Y3/0_AL	Overhead Line	67.7	270.0000		524.7	607.1	398.7	112.3	129.8	84.0	41.6	48.1	31.1	97.18	97.25	98.78
RHNF3	GR152618	5558051	8.32KV_3P_Y3/0_AL	Overhead Line	68.1	270.0000		524.1	601.7	398.5	112.3	128.8	84.0	41.6	47.7	31.1	97.07	97.15	98.73
RHNF3	GR152619	5558052	8.32KV_3P_Y3/0_AL	Overhead Line	69.3	270.0000		523.5	601.1	398.3	112.3	128.8	84.0	41.6	47.7	31.1	96.96	97.05	98.68
RHNF3	GR152620	5558053	8.32KV_3P_Y3/0_AL	Overhead Line	69.0	270.0000		522.9	600.4	398.1	112.3	128.8	84.0	41.6	47.7	31.1	96.85	96.94	98.63
RHNF3	GR152621	5558055	8.32KV_3P_Y3/0_AL	Overhead Line	75.2	270.0000		522.3	599.8	397.9	112.3	128.8	84.0	41.6	47.7	31.1	96.73	96.83	98.58
RHNF3	GR152622	5558056	8.32KV_3P_Y3/0_AL	Overhead Line	67.3	270.0000		521.7	599.1	397.7	112.3	128.8	84.0	41.6	47.7	31.1	96.62	96.73	98.53
RHNF3	GR152623	5558058	8.32KV_3P_Y3/0_AL	Overhead Line	68.9	270.0000		521.1	598.5	397.5	112.3	128.8	84.0	41.6	47.7	31.1	96.51	96.63	98.48
RHNF3	GR152624	5558059	8.32KV_3P_Y3/0_AL	Overhead Line	67.2	270.0000		520.5	597.9	397.3	112.3	128.8	84.0	41.6	47.7	31.1	96.41	96.53	98.43
RHNF3	GR152625	5558060	8.32KV_3P_Y3/0_AL	Overhead Line	76.6	270.0000		519.9	597.2	397.1	112.3	128.8	84.0	41.6	47.7	31.1	96.28	96.41	98.38
RHNF3	GR152626	5559047	8.32KV_3P_Y3/0_AL	Overhead Line	104.7	270.0000		519.3	596.5	396.9	112.3	128.8	84.0	41.6	47.7	31.1	96.12	96.25	98.30
RHNF3	GR152627	5560640	8.32KV_3P_Y3/0_AL	Overhead Line	74.7	270.0000		518.4	593.7	396.6	112.3	128.4	84.0	41.6	47.6	31.1	96.00	96.14	98.25
RHNF3	GR152628	5560857	8.32KV_3P_Y3/0_AL	Overhead Line	73.2	270.0000		517.8	593.0	396.4	112.3	128.4	84.0	41.6	47.6	31.1	95.88	96.04	98.20
RHNF3	GR152629	5560858	8.32KV_3P_Y3/0_AL	Overhead Line	48.6	270.0000		511.2	592.3	396.2	111.0	128.4	84.0	41.1	47.6	31.1	95.81	95.96	98.16
RHNF3	GR152630	5511065	8.32KV_3P_Y3/0_AL	Overhead Line	53.2	270.0000		510.8	587.2	273.9	111.0	127.4	58.1	41.1	47.2	21.5	95.71	95.89	98.15
RHNF3	GR152631	5560859	8.32KV_3P_Y3/0_AL	Overhead Line	72.5	270.0000		510.3	586.7	273.9	111.0	127.4	58.1	41.1	47.2	21.5	95.59	95.78	98.13
RHNF3	GR152632	5560426	8.32KV_1P_Y1/0_AL	Overhead Line	2.3	230.0000		6.0			1.3			0.6			95.59		
RHNF3	GR152633	11279852	8.32KV_1P_Y1/0_AL	Overhead Line	27.5	230.0000		6.0			1.3			0.6			95.58		
RHNF3	GR152636	5560860	8.32KV_3P_Y3/0_AL	Overhead Line	70.7	270.0000		503.6	586.1	273.8	109.7	127.4	58.1	40.6	47.2	21.5	95.46	95.68	98.11
RHNF3	GR152637	5560861	8.32KV_3P_Y3/0_AL	Overhead Line	73.9	270.0000		503.0	585.5	273.8	109.7	127.4	58.1	40.6	47.2	21.5	95.33	95.58	98.10
RHNF3	GR152638	5560862	8.32KV_3P_Y3/0_AL	Overhead Line	73.6	270.0000		502.3	570.7	273.7	109.7	124.3	58.1	40.6	46.0	21.5	95.21	95.48	98.08
RHNF3	GR152639	5560863	8.32KV_3P_Y3/0_AL	Overhead Line	83.8	270.0000		501.6	570.1	273.7	109.7	124.3	58.1	40.6	46.0	21.5	95.06	95.36	98.05
RHNF3	GR152640	5560864	8.32KV_3P_Y3/0_AL	Overhead Line	85.8	270.0000		500.8	569.4	273.6	109.7	124.3	58.1	40.6	46.0	21.5	94.91	95.24	98.03
RHNF3	GR152641	5560865	8.32KV_3P_Y3/0_AL	Overhead Line	83.4	270.0000		500.1	568.7	273.5	109.7	124.3	58.1	40.6	46.0	21.5	94.77	95.13	98.01
RHNF3	GR152642	5560866	8.32KV_3P_Y3/0_AL	Overhead Line	67.1	270.0000		499.3	568.0	273.5	109.7	124.3	58.1	40.6	46.0	21.5	94.65	95.04	97.99
RHNF3	GR152643	5560444	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000			2.8			0.6			0.3			95.04	
RHNF3	GR152644	11280000	8.32KV_1P_Y1/0_AL	Overhead Line	42.8	230.0000			2.8			0.6			0.3			95.03	
RHNF3	GR152647	5560867	8.32KV_3P_Y3/0_AL	Overhead Line	44.0	270.0000		498.7	564.7	273.4	109.7	123.7	58.1	40.6	45.8	21.5	94.58	94.97	97.98
RHNF3	GR152648	5560868	8.32KV_3P_Y1/0_AL	Overhead Line	25.1	230.0000		5.9	4.7	2.7	1.3	1.0	0.6	0.6	0.4	0.3	94.57	94.97	97.98
RHNF3	GR152651	5561019	8.32KV_3P_Y3/0_AL	Overhead Line	40.4	270.0000		492.4	559.6	270.7	108.4	122.7	57.5	40.1	45.4	21.3	94.51	94.92	97.97
RHNF3	GR152652	5561021	8.32KV_3P_Y3/0_AL	Overhead Line	83.2	270.0000		486.0	559.3	270.6	107.1	122.7	57.5	39.7	45.4	21.3	94.37	94.81	97.94
RHNF3	GR152653	5560837	8.32KV_1P_Y1/0_AL	Overhead Line	2.9	230.0000				2.7			0.6			0.3			97.94
RHNF3	GR152654	11279955	8.32KV_1P_Y1/0_AL	Overhead Line	20.9	230.0000				2.7			0.6			0.3			97.94
RHNF3	GR152655	11279994	8.32KV_1P_Y1/0_AL	Overhead Line	38.3	230.0000				2.7			0.6			0.3			97.94
RHNF3	GR152659	5561022	8.32KV_3P_Y1/0_AL	Overhead Line	3.4	230.0000		17.8	14.1	8.2	3.9	3.1	1.7	1.7	1.3	0.8	94.37	94.81	97.94
RHNF3	GR152660	11279938	8.32KV_3P_Y1/0_AL	Overhead Line	69.9	230.0000		17.8	14.1	8.2	3.9	3.1	1.7	1.7	1.3	0.8	94.36	94.81	97.94
RHNF3	GR152663	5561023	8.32KV_3P_Y3/0_AL	Overhead Line	72.9	270.0000		467.5	544.6	259.7	103.1	119.6	55.2	38.2	44.3	20.4	94.25	94.71	97.93
RHNF3	GR152664	5561024	8.32KV_3P_Y3/0_AL	Overhead Line	45.1	270.0000		466.9	544.0	259.6	103.1	119.6	55.2	38.2	44.3	20.4	94.17	94.65	97.92
RHNF3	GR152665	5561025	8.32KV_3P_Y3/0_AL	Overhead Line	36.4	270.0000		466.5	543.7	259.6	103.1	119.6	55.2	38.2	44.3	20.4	94.11	94.60	97.91
RHNF3	GR152666	5561026	8.32KV_3P_Y3/0_AL	Overhead Line	43.7	270.0000		466.2	543.4	259.6	103.1	119.6	55.2	38.2	44.3	20.4	94.04	94.54	97.90
RHNF3	GR152667	5561027	8.32KV_3P_Y3/0_AL	Overhead Line	63.2	270.0000		465.9	543.1	259.6	103.1	119.6	55.2	38.2	44.3	20.4	93.94	94.46	97.88
RHNF3	GR152668	5560039	8.32KV_3P_Y3/0_AL	Overhead Line	61.7	270.0000		465.4	542.6	259.5	103.1	119.6	55.2	38.2	44.3	20.4	93.84	94.37	97.87
RHNF3	GR152669	5560040	8.32KV_3P_Y3/0_AL	Overhead Line	75.0	270.0000		464.9	542.1	259.5	103.1	119.6	55.2	38.2	44.3	20.4	93.72	94.27	97.85
RHNF3	GR152670	5560041	8.32KV_3P_Y3/0_AL	Overhead Line	76.4	270.0000		464.3	541.5	259.4	103.1	119.6	55.2	38.2	44.3	20.4	93.59	94.17	97.83
RHNF3	GR152671	5560044	8.32KV_3P_Y3/0_AL	Overhead Line	42.3	270.0000		463.7	541.0	259.4	103.1	119.6	55.2	38.2	44.3	20.4	93.52	94.12	97.82
RHNF3	GR152672	5558648	8.32KV_1P_Y1/0_AL	Overhead Line	19.6	230.0000			114.1			25.2			11.0			94.11	
RHNF3	GR152673	5561058	8.32KV_1P_Y1/0_AL	Overhead Line	69.3	230.0000			114.1			25.2			11.0			94.08	
RHNF3	GR152674	5561059	8.32KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000			4.7			1.0			0.5			94.08	
RHNF3	GR152675	11276178	8.32KV_1P_Y1/0_AL	Overhead Line	21.1	230.0000			4.7			1.0			0.5			94.08	
RHNF3	GR152676	5561060	8.32KV_1P_Y1/0_AL	Overhead Line	68.3	230.0000			4.7			1.0			0.5			94.08	
RHNF3	GR152679	5561061	8.32KV_1P_Y1/0_AL	Overhead Line	48.4	230.0000			109.4			24.2			10.5			94.07	
RHNF3	GR152680	13013615	8.32KV_1P_Y1/0_AL	Overhead Line	5.9	230.0000			109.3			24.2			10.5			94.06	
RHNF3	GR152681	13013607	8.32KV_1P_Y1/0_AL	Overhead Line	6.0	230.0000			109.3			24.2			10.5			94.06	
RHNF3	GR152682	13013618	8.32KV_1P_N1/0_AL	Overhead Line	9.2	230.0000			0.0			0.0			0.0			94.06	
RHNF3	GR152683	5561062	8.32KV_1P_Y1/0_AL	Overhead Line	37.0	230.0000			109.3			24.2			10.5			94.05	
RHNF3	GR152684	5558237	8.32KV_1P_Y1/0_AL	Overhead Line	5.0	230.0000			75.4			16.7			7.3			94.05	
RHNF3	GR152704	5561063	8.32KV_1P_Y1/0_AL	Overhead Line	49.6	230.0000			33.9			7.5			3.3			94.04	
RHNF3	GR152705	5561064	8.32KV_1P_Y1/0_AL	Overhead Line	89.6	230.0000			33.9			7.5			3.3			94.03	
RHNF3	GR152706	5561065	8.32KV_1P_Y1/0_AL	Overhead Line	86.3	230.0000			33.9			7.5			3.3			94.03	
RHNF3	GR152707	5511067	8.32KV_1P_Y1/0_AL	Overhead Line	85.1	230.0000			33.9			7.5			3.3			94.02	
RHNF3	GR152708	5561066	8.32KV_1P_Y1/0_AL	Overhead Line	75.0	230.0000			29.2			6.5			2.8			94.01	
RHNF3	GR152709	5561068	8.32KV_1P_Y1/0_AL	Overhead Line	91.9	230.0000			24.5			5.4			2.4			94.00	
RHNF3	GR152710	5561069	8.32KV_1P_Y1/0_AL	Overhead Line	90.3	230.0000			24.5			5.4			2.4			93.99	
RHNF3	GR152711	5558027	8.32KV_1P_Y1/0_AL	Overhead Line	84.8	230.0000			23.5			5.2			2.3			93.99	
RHNF3	GR152712	5558037	8.32KV_1P_Y1/0_AL	Overhead Line	80.0	230.0000			23.5			5.2			2.3			93.98	
RHNF3	GR152713	11601448	8.32KV_1P_Y1/0_AL	Overhead Line	77.4	230.0000			23.5			5.2			2.3			93.98	
RHNF3	GR152714	5558038	8.32KV_1P_Y1/0_AL	Overhead Line	83.5	230.0000			23.5			5.2			2.3			93.97	
RHNF3	GR152715	5512683	8.32KV_1P_Y1/0_AL	Overhead Line	18.1	230.0000			4.7			1.0			0.5			93.97	
RHNF3	GR152718	5560744	8.32KV_1P_Y1/0_AL	Overhead Line	77.9	230.0000			18.8			4.2			1.8			93.97	
RHNF3	GR152719	5560743	8.32KV_1P_Y1/0_AL	Overhead Line	80.4	230.0000			18.8			4.2			1.8			93.96	
RHNF3	GR152720	5560742	8.32KV_1P_Y1/0_AL	Overhead Line	73.4	230.0000			18.8			4.2			1.8			93.96	
RHNF3	GR152721	5560741	8.32KV_1P_Y1/0_AL	Overhead Line	82.2	230.0000			14.1			3.1			1.4			93.95	
RHNF3	GR152722	5560740	8.32KV_1P_Y1/0_AL	Overhead Line	40.4	230.0000			4.7			1.0			0.5			93.95	
RHNF3	GR152723	5560739	8.32KV_1P_Y1/0_AL	Overhead Line	92.0	230.0000			4.7			1.0			0.5			93.95	
RHNF3	GR152724	5560738	8.32KV_1P_Y1/0_AL	Overhead Line	64.1	230.0000			4.7			1.0			0.5			93.95	
RHNF3	GR152725	5560737	8.32KV_1P_Y1/0_AL	Overhead Line	91.4	230.0000			4.7			1.0			0.5			93.95	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
RHNF3	GR152726	5560736	8.32KV_1P_Y1/0_AL	Overhead Line	70.0	230.0000			0.0			0.0			0.0			93.95	
RHNF3	GR152727	5559320	8.32KV_1P_Y1/0_AL	Overhead Line	77.1	230.0000			0.0			0.0			0.0			93.95	
RHNF3	GR152728	5559319	8.32KV_1P_Y1/0_AL	Overhead Line	73.5	230.0000			0.0			0.0			0.0			93.95	
RHNF3	GR152729	5560746	8.32KV_1P_Y1/0_AL	Overhead Line	3.4	230.0000			4.7			1.0			0.5			93.95	
RHNF3	GR152730	11276155	8.32KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000			4.7			1.0			0.5			93.95	
RHNF3	GR152731	5560747	8.32KV_1P_Y1/0_AL	Overhead Line	66.8	230.0000			4.7			1.0			0.5			93.95	
RHNF3	GR152734	5560756	8.32KV_1P_Y1/0_AL	Overhead Line	21.4	230.0000			9.4			2.1			0.9			93.95	
RHNF3	GR152745	13013630	8.32KV_1P_N1/0_AL	Overhead Line	8.8	230.0000			0.0			0.0			0.0			94.07	
RHNF3	GR152746	5560049	8.32KV_3P_Y3/0_AL	Overhead Line	78.8	270.0000		167.1	70.9	157.2	37.2	15.7	33.4	13.8	5.8	12.4	93.49	94.11	97.78
RHNF3	GR152747	11276645	8.32KV_3P_Y3/0_AL	Overhead Line	4.0	270.0000		167.1	70.9	157.1	37.2	15.7	33.4	13.8	5.8	12.4	93.49	94.11	97.78
RHNF3	GR152748	5560051	8.32KV_3P_Y3/0_AL	Overhead Line	4.0	270.0000		167.1	70.9	157.1	37.2	15.7	33.4	13.8	5.8	12.4	93.49	94.11	97.78
RHNF3	GR152749	11276643	8.32KV_3P_N3/0_AL	Overhead Line	7.4	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.49	94.11	97.78
RHNF3	GR152750	11276644	8.32KV_3P_Y3/0_AL	Overhead Line	76.2	270.0000		167.1	70.9	157.1	37.2	15.7	33.4	13.8	5.8	12.4	93.46	94.10	97.74
RHNF3	GR152751	11276250	8.32KV_1P_N1/0_AL	Overhead Line	2.7	230.0000		12.0			2.7			1.2			93.46		
RHNF3	GR152752	11276320	8.32KV_1P_N1/0_AL	Overhead Line	18.4	230.0000		12.0			2.7			1.2			93.46		
RHNF3	GR152755	5558245	8.32KV_3P_Y3/0_AL	Overhead Line	86.2	270.0000		155.0	70.9	157.0	34.5	15.7	33.4	12.8	5.8	12.4	93.43	94.09	97.69
RHNF3	GR152756	5558246	8.32KV_3P_Y3/0_AL	Overhead Line	77.8	270.0000		155.0	70.9	154.2	34.5	15.7	32.9	12.8	5.8	12.2	93.40	94.08	97.66
RHNF3	GR152757	5561041	8.32KV_3P_Y3/0_AL	Overhead Line	54.8	270.0000		155.0	70.9	154.2	34.5	15.7	32.9	12.8	5.8	12.2	93.38	94.07	97.63
RHNF3	GR152758	5561042	8.32KV_3P_Y3/0_AL	Overhead Line	56.6	270.0000		154.9	70.9	154.1	34.5	15.7	32.9	12.8	5.8	12.2	93.36	94.07	97.60
RHNF3	GR152759	18200366	8.32KV_1P_N1/0_ACSR	Overhead Line	17.9	230.0000		12.0			2.7			1.2			93.36		
RHNF3	GR152764	5561045	8.32KV_3P_Y3/0_AL	Overhead Line	63.2	270.0000		142.9	70.9	154.1	31.9	15.7	32.9	11.8	5.8	12.2	93.34	94.06	97.57
RHNF3	GR152765	5561046	8.32KV_3P_Y3/0_AL	Overhead Line	62.8	270.0000		142.9	70.9	154.1	31.9	15.7	32.9	11.8	5.8	12.2	93.32	94.05	97.54
RHNF3	GR152766	5560104	8.32KV_3P_Y3/0_AL	Overhead Line	58.0	270.0000		142.9	70.9	154.0	31.9	15.7	32.9	11.8	5.8	12.2	93.30	94.04	97.51
RHNF3	GR152767	5554724	8.32KV_3P_Y3/0_AL	Overhead Line	79.4	270.0000		136.9	70.9	154.0	30.5	15.7	32.9	11.3	5.8	12.2	93.28	94.03	97.47
RHNF3	GR152768	5554730	8.32KV_3P_Y3/0_AL	Overhead Line	71.9	270.0000		136.8	70.9	153.9	30.5	15.7	32.9	11.3	5.8	12.2	93.26	94.02	97.44
RHNF3	GR152769	5554732	8.32KV_3P_Y3/0_AL	Overhead Line	70.1	270.0000		124.8	70.9	153.9	27.9	15.7	32.9	10.3	5.8	12.2	93.24	94.01	97.41
RHNF3	GR152770	5511282	8.32KV_1P_Y1/0_AL	Overhead Line	39.6	230.0000		12.0			2.7			1.2			93.24		
RHNF3	GR152773	5511284	8.32KV_3P_Y3/0_AL	Overhead Line	86.0	270.0000		112.9	70.8	153.8	25.2	15.7	32.9	9.3	5.8	12.2	93.23	93.99	97.37
RHNF3	GR152774	5560306	8.32KV_3P_Y3/0_AL	Overhead Line	62.8	270.0000		112.8	70.8	153.7	25.2	15.7	32.9	9.3	5.8	12.2	93.21	93.98	97.34
RHNF3	GR152775	5560307	8.32KV_3P_Y3/0_AL	Overhead Line	61.8	270.0000		112.8	70.8	153.7	25.2	15.7	32.9	9.3	5.8	12.2	93.20	93.96	97.31
RHNF3	GR152776	5560262	8.32KV_1P_Y1/0_AL	Overhead Line	20.9	230.0000		4.8			1.1			0.5			93.20		
RHNF3	GR152777	5560263	8.32KV_1P_Y1/0_AL	Overhead Line	2.4	230.0000		4.8			1.1			0.5			93.20		
RHNF3	GR152778	11276712	8.32KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000		4.8			1.1			0.5			93.20		
RHNF3	GR152779	11336653	8.32KV_1P_Y1/0_AL	Overhead Line	83.5	230.0000		2.4			0.5			0.2			93.20		
RHNF3	GR152784	5560308	8.32KV_3P_Y3/0_AL	Overhead Line	61.5	270.0000		108.0	70.8	153.7	24.1	15.7	32.9	8.9	5.8	12.2	93.19	93.95	97.28
RHNF3	GR152785	5560264	8.32KV_1P_Y1/0_AL	Overhead Line	34.2	230.0000		2.4			0.5			0.2			93.19		
RHNF3	GR152788	5560309	8.32KV_3P_Y3/0_AL	Overhead Line	59.1	270.0000		105.6	70.8	153.6	23.6	15.7	32.9	8.7	5.8	12.2	93.18	93.94	97.26
RHNF3	GR152789	5560266	8.32KV_1P_Y1/0_AL	Overhead Line	2.9	230.0000				2.7			0.6			0.3			97.26
RHNF3	GR152790	11276719	8.32KV_1P_Y1/0_AL	Overhead Line	52.5	230.0000				2.7			0.6			0.3			97.26
RHNF3	GR152791	5560672	8.32KV_1P_Y1/0_AL	Overhead Line	57.5	230.0000				2.7			0.6			0.3			97.25
RHNF3	GR152792	5512477	8.32KV_1P_Y1/0_AL	Overhead Line	56.6	230.0000				2.7			0.6			0.3			97.25
RHNF3	GR152795	5560310	8.32KV_3P_Y3/0_AL	Overhead Line	71.2	270.0000		105.6	70.8	150.9	23.6	15.7	32.3	8.7	5.8	12.0	93.17	93.93	97.22
RHNF3	GR152796	5560464	8.32KV_3P_Y3/0_AL	Overhead Line	76.4	270.0000		105.6	70.8	150.8	23.6	15.7	32.3	8.7	5.8	12.0	93.15	93.91	97.19
RHNF3	GR152797	5560465	8.32KV_3P_Y3/0_AL	Overhead Line	70.3	270.0000		105.6	70.8	150.8	23.6	15.7	32.3	8.7	5.8	12.0	93.14	93.90	97.16
RHNF3	GR152798	5560466	8.32KV_3P_Y3/0_AL	Overhead Line	70.7	270.0000		105.6	70.8	150.7	23.6	15.7	32.3	8.7	5.8	12.0	93.13	93.88	97.13
RHNF3	GR152799	5560467	8.32KV_3P_Y3/0_AL	Overhead Line	64.6	270.0000		105.6	70.8	150.7	23.6	15.7	32.3	8.7	5.8	12.0	93.12	93.87	97.10
RHNF3	GR152800	5560468	8.32KV_3P_Y3/0_AL	Overhead Line	81.9	270.0000		105.6	70.8	147.9	23.6	15.7	31.7	8.7	5.8	11.7	93.10	93.85	97.06
RHNF3	GR152801	5559864	8.32KV_1P_Y1/0_AL	Overhead Line	3.4	230.0000		12.0			2.7			1.2			93.10		
RHNF3	GR152802	11279674	8.32KV_1P_Y1/0_AL	Overhead Line	58.7	230.0000		12.0			2.7			1.2			93.10		
RHNF3	GR152803	5559865	8.32KV_1P_Y1/0_AL	Overhead Line	70.6	230.0000		6.0			1.3			0.6			93.10		
RHNF3	GR152808	5560469	8.32KV_3P_Y3/0_AL	Overhead Line	74.7	270.0000		93.6	70.8	147.9	20.9	15.7	31.7	7.8	5.8	11.7	93.09	93.83	97.03
RHNF3	GR152809	5559866	8.32KV_1P_Y1/0_AL	Overhead Line	21.6	230.0000		2.4			0.5			0.2			93.09		
RHNF3	GR152810	11276732	8.32KV_1P_Y1/0_AL	Overhead Line	55.0	230.0000		2.4			0.5			0.2			93.09		
RHNF3	GR152811	5559870	8.32KV_1P_Y1/0_AL	Overhead Line	67.6	230.0000		2.4			0.5			0.2			93.09		
RHNF3	GR152812	5559871	8.32KV_1P_Y1/0_AL	Overhead Line	61.6	230.0000		2.4			0.5			0.2			93.09		
RHNF3	GR152813	5512471	8.32KV_1P_Y1/0_AL	Overhead Line	71.8	230.0000		2.4			0.5			0.2			93.09		
RHNF3	GR152814	5559872	8.32KV_1P_Y1/0_AL	Overhead Line	82.1	230.0000		2.4			0.5			0.2			93.09		
RHNF3	GR152815	5559882	8.32KV_1P_Y1/0_AL	Overhead Line	69.8	230.0000		2.4			0.5			0.2			93.09		
RHNF3	GR152816	5559883	8.32KV_1P_Y1/0_AL	Overhead Line	77.2	230.0000		2.4			0.5			0.2			93.09		
RHNF3	GR152817	5559884	8.32KV_1P_Y1/0_AL	Overhead Line	65.8	230.0000		2.4			0.5			0.2			93.09		
RHNF3	GR152820	5560470	8.32KV_3P_Y3/0_AL	Overhead Line	80.7	270.0000		91.2	70.7	147.8	20.4	15.7	31.7	7.6	5.8	11.7	93.08	93.82	97.00
RHNF3	GR152821	5560471	8.32KV_3P_Y3/0_AL	Overhead Line	50.5	270.0000		91.2	70.7	147.8	20.4	15.7	31.7	7.6	5.8	11.7	93.07	93.80	96.97
RHNF3	GR152822	5560472	8.32KV_3P_Y3/0_AL	Overhead Line	51.8	270.0000		91.2	70.7	147.7	20.4	15.7	31.7	7.6	5.8	11.7	93.07	93.79	96.95
RHNF3	GR152823	5560473	8.32KV_3P_Y3/0_AL	Overhead Line	49.0	270.0000		85.2	70.7	147.7	19.1	15.7	31.7	7.1	5.8	11.7	93.06	93.78	96.93
RHNF3	GR152824	5560474	8.32KV_3P_Y3/0_AL	Overhead Line	70.1	270.0000		85.2	70.7	147.7	19.1	15.7	31.7	7.1	5.8	11.7	93.05	93.76	96.90
RHNF3	GR152825	5560475	8.32KV_3P_Y3/0_AL	Overhead Line	63.5	270.0000		85.2	70.7	147.6	19.1	15.7	31.7	7.1	5.8	11.7	93.05	93.75	96.88
RHNF3	GR152826	5560476	8.32KV_3P_Y3/0_AL	Overhead Line	61.4	270.0000		73.3	70.7	147.6	16.4	15.7	31.7	6.1	5.8	11.7	93.04	93.73	96.85
RHNF3	GR152827	5512476	8.32KV_3P_Y3/0_AL	Overhead Line	77.9	270.0000		73.3	70.7	147.5	16.4	15.7	31.7	6.1	5.8	11.7	93.04	93.71	96.82
RHNF3	GR152828	5559888	8.32KV_3P_Y1/0_AL	Overhead Line	30.6	230.0000		73.3	70.7	72.1	16.4	15.7	15.5	7.1	6.8	6.7	93.03	93.71	96.81
RHNF3	GR152829	5559889	8.32KV_3P_Y1/0_AL	Overhead Line	43.7	230.0000		73.3	70.7	72.1	16.4	15.7	15.5	7.1	6.8	6.7	93.03	93.70	96.81
RHNF3	GR152830	5559890	8.32KV_3P_Y1/0_AL	Overhead Line	38.2	230.0000		61.3	61.3	66.6	13.7	13.6	14.3	6.0	5.9	6.2	93.02	93.70	96.80
RHNF3	GR152831	5559891	8.32KV_3P_Y1/0_AL	Overhead Line	71.0	230.0000		61.3	61.3	63.9	13.7	13.6	13.7	6.0	5.9	6.0	93.01	93.69	96.79
RHNF3	GR152832	5559892	8.32KV_3P_Y1/0_AL	Overhead Line	1.9	230.0000		61.3	61.3	63.9	13.7	13.6	13.7	6.0	5.9	6.0	93.01	93.69	96.79
RHNF3	GR152833	11336566	8.32KV_3P_Y1/0_AL	Overhead Line	63.7	230.0000		61.3	61.3	63.9	13.7	13.6	13.7	6.0	5.9	6.0	93.00	93.68	96.78
RHNF3	GR152834	5559893	8.32KV_3P_Y1/0_AL	Overhead Line	67.0	230.0000		61.3	61.3	63.9	13.7	13.6	13.7	6.0	5.9	6.0	92.99	93.67	96.77
RHNF3	GR152835	5559894	8.32KV_3P_Y1/0_AL	Overhead Line	66.8	230.0000		61.3	61.3	63.9	13.7	13.6	13.7	6.0	5.9	6.0	92.98	93.66	96.76
RHNF3	GR152836	5511279	8.32KV_3P_Y1/0_AL	Overhead Line	68.3	230.0000		61.3	61.2	63.9	13.7	13.6	13.7	6.0	5.9	6.0	92.97	93.65	96.75
RHNF3	GR152837	5559895	8.32KV_3P_Y1/0_AL	Overhead Line	35.2	230.0000		61.3	61.2	63.9	13.7	13.6	13.7	6.0	5.9	6.0	92.97	93.64	96.75

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
RHNF3	GR152838	17988481	8.32KV_3P_Y1/0_AL	Overhead Line	59.3	230.0000		0.0	0.0	2.7	0.0	0.0	0.6	0.0	0.0	0.3	92.97	93.64	96.75
RHNF3	GR152841	5511881	8.32KV_3P_Y1/0_AL	Overhead Line	27.7	230.0000		61.3	61.2	61.1	13.7	13.6	13.2	6.0	5.9	5.7	92.96	93.64	96.74
RHNF3	GR152842	5559896	8.32KV_3P_Y1/0_AL	Overhead Line	59.8	230.0000		61.3	61.2	61.1	13.7	13.6	13.2	6.0	5.9	5.7	92.96	93.63	96.74
RHNF3	GR152843	5559898	8.32KV_3P_Y1/0_AL	Overhead Line	62.1	230.0000		61.3	61.2	61.1	13.7	13.6	13.2	6.0	5.9	5.7	92.95	93.62	96.73
RHNF3	GR152850	5560477	8.32KV_1P_Y1/0_AL	Overhead Line	4.5	230.0000				76.6			16.5			7.2			96.82
RHNF3	GR152851	18098483	8.32KV_1P_Y1/0_AL	Overhead Line	47.2	230.0000				76.6			16.5			7.2			96.81
RHNF3	GR152852	18097849	8.32KV_1P_Y1/0_AL	Overhead Line	5.6	230.0000				76.6			16.5			7.2			96.81
RHNF3	GR152853	5560478	8.32KV_1P_Y1/0_AL	Overhead Line	3.7	230.0000				76.6			16.5			7.2			96.81
RHNF3	GR152854	18097843	8.32KV_1P_Y1/0_AL	Overhead Line	31.5	230.0000				76.6			16.5			7.2			96.80
RHNF3	GR152855	5560479	8.32KV_1P_Y1/0_AL	Overhead Line	74.7	230.0000				76.5			16.5			7.2			96.79
RHNF3	GR152856	5560480	8.32KV_1P_Y1/0_AL	Overhead Line	80.1	230.0000				76.5			16.5			7.2			96.77
RHNF3	GR152857	5560481	8.32KV_1P_Y1/0_AL	Overhead Line	86.0	230.0000				76.5			16.5			7.2			96.75
RHNF3	GR152858	5511285	8.32KV_1P_Y1/0_AL	Overhead Line	81.5	230.0000				76.5			16.5			7.2			96.74
RHNF3	GR152859	5559901	8.32KV_1P_Y1/0_AL	Overhead Line	44.2	230.0000				2.7			0.6			0.3			96.74
RHNF3	GR152862	5560482	8.32KV_1P_Y1/0_AL	Overhead Line	81.3	230.0000				73.8			15.9			6.9			96.72
RHNF3	GR152863	5560483	8.32KV_1P_Y1/0_AL	Overhead Line	78.1	230.0000				72.8			15.7			6.8			96.71
RHNF3	GR152864	5560484	8.32KV_1P_Y1/0_AL	Overhead Line	86.3	230.0000				72.7			15.7			6.8			96.69
RHNF3	GR152865	5560485	8.32KV_1P_Y1/0_AL	Overhead Line	87.5	230.0000				72.7			15.7			6.8			96.67
RHNF3	GR152866	5560075	8.32KV_1P_Y1/0_AL	Overhead Line	23.6	230.0000				2.7			0.6			0.3			96.67
RHNF3	GR152867	11336550	8.32KV_1P_Y1/0_AL	Overhead Line	2.1	230.0000				2.7			0.6			0.3			96.67
RHNF3	GR152868	11345759	8.32KV_1P_Y1/0_AL	Overhead Line	71.4	230.0000				2.7			0.6			0.3			96.67
RHNF3	GR152869	11345740	8.32KV_1P_Y1/0_AL	Overhead Line	75.3	230.0000				2.7			0.6			0.3			96.67
RHNF3	GR152870	5511967	8.32KV_1P_Y1/0_AL	Overhead Line	76.8	230.0000				2.7			0.6			0.3			96.67
RHNF3	GR152873	5560076	8.32KV_1P_Y1/0_AL	Overhead Line	2.6	230.0000				10.9			2.4			1.0			96.67
RHNF3	GR152874	11336548	8.32KV_1P_Y1/0_AL	Overhead Line	70.1	230.0000				10.9			2.4			1.0			96.67
RHNF3	GR152875	5560078	8.32KV_1P_Y1/0_AL	Overhead Line	81.9	230.0000				10.9			2.4			1.0			96.67
RHNF3	GR152876	5512473	8.32KV_1P_Y1/0_AL	Overhead Line	80.3	230.0000				10.9			2.4			1.0			96.67
RHNF3	GR152877	5560079	8.32KV_1P_Y1/0_AL	Overhead Line	85.2	230.0000				8.2			1.8			0.8			96.66
RHNF3	GR152878	5560080	8.32KV_1P_Y1/0_AL	Overhead Line	80.0	230.0000				8.2			1.8			0.8			96.66
RHNF3	GR152879	5560081	8.32KV_1P_Y1/0_AL	Overhead Line	70.5	230.0000				8.2			1.8			0.8			96.66
RHNF3	GR152884	5560486	8.32KV_1P_Y1/0_AL	Overhead Line	78.9	230.0000				59.5			12.8			5.6			96.66
RHNF3	GR152885	5560487	8.32KV_1P_Y1/0_AL	Overhead Line	74.0	230.0000				59.5			12.8			5.6			96.65
RHNF3	GR152886	5560488	8.32KV_1P_Y1/0_AL	Overhead Line	81.0	230.0000				56.9			12.2			5.3			96.64
RHNF3	GR152887	5560489	8.32KV_1P_Y1/0_AL	Overhead Line	83.1	230.0000				56.9			12.2			5.3			96.63
RHNF3	GR152888	5560490	8.32KV_1P_Y1/0_AL	Overhead Line	82.2	230.0000				56.9			12.2			5.3			96.62
RHNF3	GR152889	5560491	8.32KV_1P_Y1/0_AL	Overhead Line	82.1	230.0000				56.8			12.2			5.3			96.61
RHNF3	GR152890	5560492	8.32KV_1P_Y1/0_AL	Overhead Line	82.8	230.0000				54.2			11.7			5.1			96.60
RHNF3	GR152891	5560493	8.32KV_1P_Y1/0_AL	Overhead Line	80.6	230.0000				54.2			11.7			5.1			96.59
RHNF3	GR152892	5560494	8.32KV_1P_Y1/0_AL	Overhead Line	70.7	230.0000				54.2			11.7			5.1			96.58
RHNF3	GR152893	5560495	8.32KV_1P_Y1/0_AL	Overhead Line	87.6	230.0000				53.2			11.5			5.0			96.57
RHNF3	GR152894	5560668	8.32KV_1P_Y1/0_AL	Overhead Line	90.0	230.0000				52.1			11.2			4.9			96.56
RHNF3	GR152895	5559690	8.32KV_1P_Y1/0_AL	Overhead Line	83.9	230.0000				49.5			10.7			4.6			96.55
RHNF3	GR152896	5559691	8.32KV_1P_Y1/0_AL	Overhead Line	70.8	230.0000				49.5			10.7			4.6			96.54
RHNF3	GR152897	5558293	8.32KV_1P_Y1/0_AL	Overhead Line	32.6	230.0000				10.9			2.4			1.0			96.54
RHNF3	GR152898	5558292	8.32KV_1P_Y1/0_AL	Overhead Line	85.8	230.0000				10.9			2.4			1.0			96.54
RHNF3	GR152899	5554927	8.32KV_1P_Y1/0_AL	Overhead Line	85.6	230.0000				10.9			2.4			1.0			96.54
RHNF3	GR152900	5557786	8.32KV_1P_Y1/0_AL	Overhead Line	89.4	230.0000				10.9			2.4			1.0			96.53
RHNF3	GR152901	5557791	8.32KV_1P_Y1/0_AL	Overhead Line	90.4	230.0000				8.2			1.8			0.8			96.53
RHNF3	GR152902	5557798	8.32KV_1P_Y1/0_AL	Overhead Line	79.5	230.0000				2.7			0.6			0.3			96.53
RHNF3	GR152903	5558291	8.32KV_1P_Y1/0_AL	Overhead Line	84.3	230.0000				2.7			0.6			0.3			96.53
RHNF3	GR152910	5560089	8.32KV_1P_Y1/0_AL	Overhead Line	66.6	230.0000				39.3			8.5			3.7			96.53
RHNF3	GR152911	5560090	8.32KV_1P_Y1/0_AL	Overhead Line	86.5	230.0000				36.6			7.9			3.4			96.52
RHNF3	GR152912	5560091	8.32KV_1P_Y1/0_AL	Overhead Line	63.2	230.0000				36.6			7.9			3.4			96.52
RHNF3	GR152913	5560092	8.32KV_1P_Y1/0_AL	Overhead Line	81.4	230.0000				33.9			7.3			3.2			96.51
RHNF3	GR152914	5560093	8.32KV_1P_Y1/0_AL	Overhead Line	28.3	230.0000				31.1			6.7			2.9			96.51
RHNF3	GR152915	5560094	8.32KV_1P_Y1/0_AL	Overhead Line	88.6	230.0000				31.1			6.7			2.9			96.50
RHNF3	GR152916	5560095	8.32KV_1P_Y1/0_AL	Overhead Line	83.3	230.0000				28.4			6.1			2.7			96.49
RHNF3	GR152917	5560096	8.32KV_1P_Y1/0_AL	Overhead Line	83.6	230.0000				22.9			4.9			2.2			96.48
RHNF3	GR152918	5560097	8.32KV_1P_Y1/0_AL	Overhead Line	85.0	230.0000				22.9			4.9			2.2			96.48
RHNF3	GR152919	5560098	8.32KV_1P_Y1/0_AL	Overhead Line	81.4	230.0000				22.9			4.9			2.2			96.47
RHNF3	GR152920	5512474	8.32KV_1P_Y1/0_AL	Overhead Line	2.6	230.0000				2.7			0.6			0.3			96.47
RHNF3	GR152921	11335945	8.32KV_1P_Y1/0_AL	Overhead Line	48.1	230.0000				2.7			0.6			0.3			96.47
RHNF3	GR152922	5560099	8.32KV_1P_Y1/0_AL	Overhead Line	75.1	230.0000				2.7			0.6			0.3			96.47
RHNF3	GR152923	5560100	8.32KV_1P_Y1/0_AL	Overhead Line	76.4	230.0000				2.7			0.6			0.3			96.47
RHNF3	GR152924	5560101	8.32KV_1P_Y1/0_AL	Overhead Line	75.5	230.0000				2.7			0.6			0.3			96.47
RHNF3	GR152925	5560102	8.32KV_1P_Y1/0_AL	Overhead Line	73.7	230.0000				2.7			0.6			0.3			96.47
RHNF3	GR152928	5557921	8.32KV_1P_Y1/0_AL	Overhead Line	84.1	230.0000				20.2			4.4			1.9			96.47
RHNF3	GR152929	5557919	8.32KV_1P_Y1/0_AL	Overhead Line	83.6	230.0000				20.2			4.4			1.9			96.46
RHNF3	GR152930	5557922	8.32KV_1P_Y1/0_AL	Overhead Line	78.3	230.0000				20.2			4.4			1.9			96.46
RHNF3	GR152931	5557923	8.32KV_1P_Y1/0_AL	Overhead Line	36.9	230.0000				17.5			3.8			1.6			96.45
RHNF3	GR152932	5557924	8.32KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000				5.5			1.2			0.5			96.45
RHNF3	GR152933	11335920	8.32KV_1P_Y1/0_AL	Overhead Line	46.4	230.0000				5.5			1.2			0.5			96.45
RHNF3	GR152936	5557925	8.32KV_1P_Y1/0_AL	Overhead Line	32.5	230.0000				1.1			0.2			0.1			96.45
RHNF3	GR152937	5558078	8.32KV_1P_Y1/0_AL	Overhead Line	2.1	230.0000				1.1			0.2			0.1			96.45
RHNF3	GR152938	11335922	8.32KV_1P_Y1/0_AL	Overhead Line	72.8	230.0000				1.1			0.2			0.1			96.45
RHNF3	GR152941	5558079	8.32KV_1P_Y1/0_AL	Overhead Line	80.5	230.0000				10.9			2.4			1.0			96.45
RHNF3	GR152942	5558080	8.32KV_1P_Y1/0_AL	Overhead Line	79.9	230.0000				10.9			2.4			1.0			96.45
RHNF3	GR152943	5558081	8.32KV_1P_Y1/0_AL	Overhead Line	85.3	230.0000				10.9			2.4			1.0			96.44

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
RHNF3	GR152944	5561109	8.32KV_1P_Y1/0_AL	Overhead Line	61.8	230.0000				10.9			2.4			1.0			96.44
RHNF3	GR152945	5561110	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000				2.7			0.6			0.3			96.44
RHNF3	GR152946	11335918	8.32KV_1P_Y1/0_AL	Overhead Line	65.6	230.0000				2.7			0.6			0.3			96.44
RHNF3	GR152947	5561111	8.32KV_1P_Y1/0_AL	Overhead Line	73.8	230.0000				2.7			0.6			0.3			96.44
RHNF3	GR152948	5561112	8.32KV_1P_Y1/0_AL	Overhead Line	86.1	230.0000				2.7			0.6			0.3			96.44
RHNF3	GR152949	5561113	8.32KV_1P_Y1/0_AL	Overhead Line	85.4	230.0000				2.7			0.6			0.3			96.44
RHNF3	GR152952	5561114	8.32KV_1P_Y1/0_AL	Overhead Line	71.1	230.0000				8.2			1.8			0.8			96.44
RHNF3	GR152953	5512482	8.32KV_1P_Y1/0_AL	Overhead Line	65.5	230.0000				8.2			1.8			0.8			96.44
RHNF3	GR152954	5561115	8.32KV_1P_Y1/0_AL	Overhead Line	64.8	230.0000				8.2			1.8			0.8			96.44
RHNF3	GR152955	5561116	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000				8.2			1.8			0.8			96.44
RHNF3	GR152956	5561117	8.32KV_1P_Y1/0_AL	Overhead Line	74.5	230.0000				5.5			1.2			0.5			96.43
RHNF3	GR152957	5561118	8.32KV_1P_Y1/0_AL	Overhead Line	70.7	230.0000				2.7			0.6			0.3			96.43
RHNF3	GR152958	5561119	8.32KV_1P_Y1/0_AL	Overhead Line	47.0	230.0000				2.7			0.6			0.3			96.43
RHNF3	GR152959	5561120	8.32KV_1P_Y1/0_AL	Overhead Line	53.5	230.0000				2.7			0.6			0.3			96.43
RHNF3	GR152960	5557876	8.32KV_1P_Y1/0_AL	Overhead Line	68.8	230.0000				2.7			0.6			0.3			96.43
RHNF3	GR152961	5557877	8.32KV_1P_Y1/0_AL	Overhead Line	66.8	230.0000				2.7			0.6			0.3			96.43
RHNF3	GR152962	5511480	8.32KV_1P_Y1/0_AL	Overhead Line	69.0	230.0000				2.7			0.6			0.3			96.43
RHNF3	GR152963	5557878	8.32KV_1P_Y1/0_AL	Overhead Line	48.0	230.0000				0.0			0.0			0.0			96.43
RHNF3	GR152964	5507786	8.32KV_1P_Y1/0_AL	Overhead Line	54.6	230.0000				0.0			0.0			0.0			96.43
RHNF3	GR152975	5560911	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000				2.7			0.6			0.3			96.50
RHNF3	GR152976	11335964	8.32KV_1P_Y1/0_AL	Overhead Line	17.5	230.0000				2.7			0.6			0.3			96.50
RHNF3	GR152977	5561089	8.32KV_1P_Y1/0_AL	Overhead Line	81.7	230.0000				2.7			0.6			0.3			96.50
RHNF3	GR152978	5561091	8.32KV_1P_Y1/0_AL	Overhead Line	72.4	230.0000				2.7			0.6			0.3			96.50
RHNF3	GR152987	5560885	8.32KV_1P_Y1/0_AL	Overhead Line	56.7	230.0000				17.6			3.8			1.6			96.55
RHNF3	GR152988	5560886	8.32KV_1P_Y1/0_AL	Overhead Line	47.6	230.0000				18.7			4.0			1.8			96.55
RHNF3	GR152989	5560887	8.32KV_1P_Y1/0_AL	Overhead Line	67.5	230.0000				20.2			4.4			1.9			96.55
RHNF3	GR152991	5560888	8.32KV_1P_Y1/0_AL	Overhead Line	71.2	230.0000				20.2			4.4			1.9			96.56
RHNF3	GR152992	5560889	8.32KV_1P_Y1/0_AL	Overhead Line	72.6	230.0000				21.9			4.7			2.1			96.57
RHNF3	GR152993	5560890	8.32KV_1P_Y1/0_AL	Overhead Line	68.2	230.0000				23.8			5.1			2.2			96.57
RHNF3	GR152994	5560891	8.32KV_1P_Y1/0_AL	Overhead Line	74.3	230.0000				28.0			6.0			2.6			96.58
RHNF3	GR152995	5560892	8.32KV_1P_Y1/0_AL	Overhead Line	78.6	230.0000				28.0			6.0			2.6			96.59
RHNF3	GR152996	5560893	8.32KV_1P_Y1/0_AL	Overhead Line	81.1	230.0000				28.0			6.0			2.6			96.60
RHNF3	GR152997	5560894	8.32KV_1P_Y1/0_AL	Overhead Line	83.8	230.0000				28.9			6.2			2.7			96.61
RHNF3	GR152998	5560895	8.32KV_1P_Y1/0_AL	Overhead Line	71.9	230.0000				28.9			6.2			2.7			96.62
RHNF3	GR152999	5512480	8.32KV_1P_Y1/0_AL	Overhead Line	77.3	230.0000				28.9			6.2			2.7			96.63
RHNF3	GR153000	5560896	8.32KV_1P_Y1/0_AL	Overhead Line	78.3	230.0000				28.9			6.2			2.7			96.64
RHNF3	GR153001	5560897	8.32KV_1P_Y1/0_AL	Overhead Line	83.4	230.0000				28.9			6.2			2.7			96.65
RHNF3	GR153002	5560898	8.32KV_1P_Y1/0_AL	Overhead Line	67.6	230.0000				31.2			6.7			2.9			96.65
RHNF3	GR153003	5560899	8.32KV_1P_Y1/0_AL	Overhead Line	77.3	230.0000				33.5			7.2			3.1			96.66
RHNF3	GR153004	5560900	8.32KV_1P_Y1/0_AL	Overhead Line	56.6	230.0000				33.5			7.2			3.1			96.67
RHNF3	GR153005	5560901	8.32KV_1P_Y1/0_AL	Overhead Line	61.2	230.0000				33.5			7.2			3.1			96.68
RHNF3	GR153006	5560902	8.32KV_1P_Y1/0_AL	Overhead Line	71.3	230.0000				33.5			7.2			3.1			96.69
RHNF3	GR153007	5559255	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000				74.2			16.0			7.0			96.70
RHNF3	GR153008	5559471	8.32KV_1P_Y1/0_AL	Overhead Line	68.4	230.0000				74.3			16.0			7.0			96.72
RHNF3	GR153009	5559470	8.32KV_1P_Y1/0_AL	Overhead Line	71.3	230.0000				74.3			16.0			6.9			96.74
RHNF3	GR153010	5559468	8.32KV_1P_Y1/0_AL	Overhead Line	71.1	230.0000				76.9			16.6			7.2			96.76
RHNF3	GR153011	5559467	8.32KV_1P_Y1/0_AL	Overhead Line	60.4	230.0000				79.6			17.1			7.4			96.78
RHNF3	GR153012	5559292	8.32KV_1P_Y1/0_AL	Overhead Line	70.5	230.0000				82.3			17.7			7.7			96.80
RHNF3	GR153013	5559290	8.32KV_1P_Y1/0_AL	Overhead Line	81.5	230.0000				85.0			18.3			8.0			96.82
RHNF3	GR153014	5560062	8.32KV_1P_Y1/0_AL	Overhead Line	37.9	230.0000				2.7			0.6			0.3			96.82
RHNF3	GR153015	5560063	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000				2.7			0.6			0.3			96.82
RHNF3	GR153016	11263652	8.32KV_1P_Y1/0_AL	Overhead Line	75.3	230.0000				2.7			0.6			0.3			96.82
RHNF3	GR153023	5560064	8.32KV_1P_Y1/0_AL	Overhead Line	2.6	230.0000				2.7			0.6			0.3			96.76
RHNF3	GR153024	11263667	8.32KV_1P_Y1/0_AL	Overhead Line	20.7	230.0000				2.7			0.6			0.3			96.76
RHNF3	GR153025	5511512	8.32KV_1P_Y1/0_AL	Overhead Line	38.4	230.0000				2.7			0.6			0.3			96.76
RHNF3	GR153030	5559256	8.32KV_1P_Y1/0_AL	Overhead Line	15.9	230.0000				43.2			9.3			4.0			96.69
RHNF3	GR153031	5559257	8.32KV_1P_Y1/0_AL	Overhead Line	101.1	230.0000				40.4			8.7			3.8			96.67
RHNF3	GR153032	5559275	8.32KV_1P_Y1/0_AL	Overhead Line	4.6	230.0000				40.4			8.7			3.8			96.67
RHNF3	GR153033	18098592	8.32KV_1P_Y1/0_AL	Overhead Line	82.0	230.0000				40.4			8.7			3.8			96.66
RHNF3	GR153034	5559713	8.32KV_1P_Y1/0_AL	Overhead Line	93.1	230.0000				40.4			8.7			3.8			96.65
RHNF3	GR153035	5560116	8.32KV_1P_Y1/0_AL	Overhead Line	2.6	230.0000				37.7			8.1			3.5			96.65
RHNF3	GR153036	18098577	8.32KV_1P_Y1/0_AL	Overhead Line	87.7	230.0000				37.7			8.1			3.5			96.64
RHNF3	GR153037	5559533	8.32KV_1P_Y1/0_AL	Overhead Line	89.8	230.0000				37.7			8.1			3.5			96.63
RHNF3	GR153038	5559535	8.32KV_1P_Y1/0_AL	Overhead Line	90.3	230.0000				37.7			8.1			3.5			96.62
RHNF3	GR153039	5559536	8.32KV_1P_Y1/0_AL	Overhead Line	91.0	230.0000				37.7			8.1			3.5			96.61
RHNF3	GR153040	5559714	8.32KV_1P_Y1/0_AL	Overhead Line	94.2	230.0000				37.7			8.1			3.5			96.60
RHNF3	GR153041	5559715	8.32KV_1P_Y1/0_AL	Overhead Line	89.7	230.0000				35.0			7.5			3.3			96.59
RHNF3	GR153042	5559716	8.32KV_1P_Y1/0_AL	Overhead Line	90.5	230.0000				35.0			7.5			3.3			96.58
RHNF3	GR153043	5559749	8.32KV_1P_Y1/0_AL	Overhead Line	92.5	230.0000				35.0			7.5			3.3			96.57
RHNF3	GR153044	5559750	8.32KV_1P_Y1/0_AL	Overhead Line	91.1	230.0000				35.0			7.5			3.3			96.56
RHNF3	GR153045	5559751	8.32KV_1P_Y1/0_AL	Overhead Line	91.2	230.0000				35.0			7.5			3.3			96.55
RHNF3	GR153046	5559711	8.32KV_1P_Y1/0_AL	Overhead Line	94.0	230.0000				35.0			7.5			3.3			96.54
RHNF3	GR153047	5512674	8.32KV_1P_Y1/0_AL	Overhead Line	87.1	230.0000				35.0			7.5			3.3			96.53
RHNF3	GR153048	5559920	8.32KV_1P_Y1/0_AL	Overhead Line	80.4	230.0000				35.0			7.5			3.3			96.52
RHNF3	GR153049	5558724	8.32KV_1P_Y1/0_AL	Overhead Line	39.9	230.0000				20.2			4.4			1.9			96.51
RHNF3	GR153050	5508232	8.32KV_1P_Y1/0_AL	Overhead Line	45.1	230.0000				19.1			4.1			1.8			96.51
RHNF3	GR153051	5558725	8.32KV_1P_Y1/0_AL	Overhead Line	37.6	230.0000				19.1			4.1			1.8			96.51
RHNF3	GR153052	5558727	8.32KV_1P_Y1/0_AL	Overhead Line	36.4	230.0000				19.1			4.1			1.8			96.51

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
RHNF3	GR153053	5558728	8.32KV_1P_Y1/0_AL	Overhead Line	40.9	230.0000				16.4			3.5			1.5			96.50
RHNF3	GR153054	5558730	8.32KV_1P_Y1/0_AL	Overhead Line	82.7	230.0000				16.4			3.5			1.5			96.50
RHNF3	GR153055	5558731	8.32KV_1P_Y1/0_AL	Overhead Line	76.6	230.0000				13.6			2.9			1.3			96.50
RHNF3	GR153056	5558732	8.32KV_1P_Y1/0_AL	Overhead Line	92.4	230.0000				13.6			2.9			1.3			96.49
RHNF3	GR153057	5558733	8.32KV_1P_Y1/0_AL	Overhead Line	92.4	230.0000				13.6			2.9			1.3			96.49
RHNF3	GR153058	5559933	8.32KV_1P_Y1/0_AL	Overhead Line	91.9	230.0000				13.6			2.9			1.3			96.49
RHNF3	GR153059	5559934	8.32KV_1P_Y1/0_AL	Overhead Line	94.1	230.0000				13.6			2.9			1.3			96.48
RHNF3	GR153060	5559935	8.32KV_1P_Y1/0_AL	Overhead Line	47.5	230.0000				13.7			2.9			1.3			96.48
RHNF3	GR153061	11590408	8.32KV_1P_Y1/0_AL	Overhead Line	43.2	230.0000				8.2			1.8			0.8			96.48
RHNF3	GR153062	5559936	8.32KV_1P_Y1/0_AL	Overhead Line	93.1	230.0000				8.2			1.8			0.8			96.48
RHNF3	GR153063	5559937	8.32KV_1P_Y1/0_AL	Overhead Line	91.3	230.0000				8.2			1.8			0.8			96.47
RHNF3	GR153064	5559938	8.32KV_1P_Y1/0_AL	Overhead Line	56.0	230.0000				8.2			1.8			0.8			96.47
RHNF3	GR153065	12976897	8.32KV_1P_Y1/0_AL	Overhead Line	48.5	230.0000				5.5			1.2			0.5			96.47
RHNF3	GR153066	19057632	8.32KV_1P_Y1/0_AL	Overhead Line	43.7	230.0000				2.7			0.6			0.3			96.47
RHNF3	GR153067	19057641	8.32KV_1P_Y1/0_AL	Overhead Line	60.1	230.0000				2.7			0.6			0.3			96.47
RHNF3	GR153072	5559939	8.32KV_1P_Y1/0_AL	Overhead Line	41.2	230.0000				2.7			0.6			0.3			96.47
RHNF3	GR153075	11590481	8.32KV_1P_N1/0_AL	Overhead Line	3.5	230.0000				5.5			1.2			0.5			96.48
RHNF3	GR153076	11590521	8.32KV_1P_N1/0_AL	Overhead Line	17.9	230.0000				5.5			1.2			0.5			96.48
RHNF3	GR153077	11590489	8.32KV_1P_N1/0_AL	Overhead Line	82.3	230.0000				5.5			1.2			0.5			96.48
RHNF3	GR153078	11590488	8.32KV_1P_N1/0_AL	Overhead Line	78.7	230.0000				5.5			1.2			0.5			96.48
RHNF3	GR153079	11590487	8.32KV_1P_N1/0_AL	Overhead Line	71.7	230.0000				5.5			1.2			0.5			96.47
RHNF3	GR153080	11590486	8.32KV_1P_N1/0_AL	Overhead Line	81.6	230.0000				5.5			1.2			0.5			96.47
RHNF3	GR153081	11590485	8.32KV_1P_N1/0_AL	Overhead Line	79.1	230.0000				5.5			1.2			0.5			96.47
RHNF3	GR153082	11590484	8.32KV_1P_N1/0_AL	Overhead Line	81.9	230.0000				5.5			1.2			0.5			96.47
RHNF3	GR153091	5559519	8.32KV_1P_Y1/0_AL	Overhead Line	24.7	230.0000				14.7			3.2			1.4			96.52
RHNF3	GR153092	5560122	8.32KV_1P_Y1/0_AL	Overhead Line	84.5	230.0000				14.7			3.2			1.4			96.51
RHNF3	GR153093	5559344	8.32KV_1P_Y1/0_AL	Overhead Line	89.0	230.0000				12.0			2.6			1.1			96.51
RHNF3	GR153094	5559345	8.32KV_1P_Y1/0_AL	Overhead Line	46.3	230.0000				12.0			2.6			1.1			96.51
RHNF3	GR153095	5559499	8.32KV_1P_Y1/0_AL	Overhead Line	65.2	230.0000				10.9			2.4			1.0			96.50
RHNF3	GR153096	5559500	8.32KV_1P_Y1/0_AL	Overhead Line	63.6	230.0000				10.9			2.4			1.0			96.50
RHNF3	GR153097	5559501	8.32KV_1P_Y1/0_AL	Overhead Line	2.9	230.0000				1.6			0.4			0.2			96.50
RHNF3	GR153098	11280008	8.32KV_1P_Y1/0_AL	Overhead Line	90.3	230.0000				1.6			0.4			0.2			96.50
RHNF3	GR153099	5559502	8.32KV_1P_Y1/0_AL	Overhead Line	57.8	230.0000				0.0			0.0			0.0			96.50
RHNF3	GR153102	5559503	8.32KV_1P_Y1/0_AL	Overhead Line	69.2	230.0000				9.3			2.0			0.9			96.50
RHNF3	GR153103	5559504	8.32KV_1P_Y1/0_AL	Overhead Line	77.0	230.0000				6.6			1.4			0.6			96.50
RHNF3	GR153104	5559521	8.32KV_1P_Y1/0_AL	Overhead Line	75.9	230.0000				6.6			1.4			0.6			96.50
RHNF3	GR153105	5559522	8.32KV_1P_Y1/0_AL	Overhead Line	89.0	230.0000				3.8			0.8			0.4			96.50
RHNF3	GR153106	5559523	8.32KV_1P_Y1/0_AL	Overhead Line	77.9	230.0000				3.8			0.8			0.4			96.49
RHNF3	GR153107	5559524	8.32KV_1P_Y1/0_AL	Overhead Line	74.5	230.0000				2.7			0.6			0.3			96.49
RHNF3	GR153124	5559276	8.32KV_1P_Y1/0_AL	Overhead Line	58.2	230.0000				2.7			0.6			0.3			96.69
RHNF3	GR153125	5559277	8.32KV_1P_Y1/0_AL	Overhead Line	54.5	230.0000				2.7			0.6			0.3			96.69
RHNF3	GR153128	5560903	8.32KV_1P_Y1/0_AL	Overhead Line	3.5	230.0000				2.7			0.6			0.3			96.65
RHNF3	GR153129	11263690	8.32KV_1P_Y1/0_AL	Overhead Line	39.4	230.0000				2.7			0.6			0.3			96.65
RHNF3	GR153130	5511478	8.32KV_1P_Y1/0_AL	Overhead Line	56.9	230.0000				2.7			0.6			0.3			96.65
RHNF3	GR153135	5560904	8.32KV_1P_Y1/0_AL	Overhead Line	40.3	230.0000				1.1			0.2			0.1			96.60
RHNF3	GR153140	5560908	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000				2.7			0.6			0.3			96.57
RHNF3	GR153141	11336538	8.32KV_1P_Y1/0_AL	Overhead Line	64.0	230.0000				2.7			0.6			0.3			96.57
RHNF3	GR153149	5560909	8.32KV_1P_Y1/0_AL	Overhead Line	16.6	230.0000				2.7			0.6			0.3			96.55
RHNF3	GR153170	5560673	8.32KV_1P_Y1/0_AL	Overhead Line	2.9	230.0000				2.7			0.6			0.3			97.10
RHNF3	GR153171	11276728	8.32KV_1P_Y1/0_AL	Overhead Line	13.6	230.0000				2.7			0.6			0.3			97.10
RHNF3	GR153172	5511287	8.32KV_1P_Y1/0_AL	Overhead Line	72.0	230.0000				2.7			0.6			0.3			97.10
RHNF3	GR153173	5559863	8.32KV_1P_Y1/0_AL	Overhead Line	61.6	230.0000				2.7			0.6			0.3			97.10
RHNF3	GR153178	5560103	8.32KV_1P_Y1/0_AL	Overhead Line	3.2	230.0000		6.0			1.3			0.6			93.30		
RHNF3	GR153179	11276708	8.32KV_1P_Y1/0_AL	Overhead Line	20.4	230.0000		6.0			1.3			0.6			93.30		
RHNF3	GR153184	11276649	8.32KV_3P_N3/0_AL	Overhead Line	6.9	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.49	94.11	97.78
RHNF3	GR153185	5561047	8.32KV_3P_Y3/0_AL	Overhead Line	34.0	270.0000		296.2	355.7	102.4	65.9	78.7	21.8	24.4	29.1	8.1	93.48	94.09	97.82
RHNF3	GR153186	5561048	8.32KV_3P_Y3/0_AL	Overhead Line	31.6	270.0000		296.1	353.7	102.4	65.9	78.3	21.8	24.4	29.0	8.1	93.45	94.06	97.82
RHNF3	GR153187	5561049	8.32KV_3P_Y3/0_AL	Overhead Line	70.7	270.0000		296.0	353.7	102.4	65.9	78.3	21.8	24.4	29.0	8.1	93.36	94.00	97.83
RHNF3	GR153188	11341131	8.32KV_3P_Y3/0_AL	Overhead Line	36.3	270.0000		295.7	353.4	102.4	65.9	78.3	21.8	24.4	29.0	8.1	93.32	93.97	97.83
RHNF3	GR153189	18196746	8.32KV_3P_N1/0_AL	Overhead Line	6.5	230.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.32	93.97	97.83
RHNF3	GR153190	18996546	8.32KV_3P_Y3/0_AL	Overhead Line	3.9	270.0000		295.6	353.3	102.5	65.9	78.3	21.8	24.4	29.0	8.1	93.32	93.97	97.83
RHNF3	GR153191	18996542	8.32KV_3P_Y3/0_AL	Overhead Line	4.0	270.0000		295.6	353.3	102.5	65.9	78.3	21.8	24.4	29.0	8.1	93.31	93.97	97.83
RHNF3	GR153192	18196745	8.32KV_3P_N1/0_AL	Overhead Line	6.4	230.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.31	93.97	97.83
RHNF3	GR153193	18996533	8.32KV_3P_Y3/0_AL	Overhead Line	59.0	270.0000		295.6	353.3	102.5	65.9	78.3	21.8	24.4	29.0	8.1	93.24	93.92	97.83
RHNF3	GR153194	5561054	8.32KV_3P_Y3/0_AL	Overhead Line	103.0	270.0000		295.3	353.1	102.5	65.9	78.3	21.8	24.4	29.0	8.1	93.12	93.83	97.84
RHNF3	GR153195	5561055	8.32KV_3P_Y3/0_AL	Overhead Line	68.8	270.0000		295.0	352.8	102.5	65.9	78.3	21.8	24.4	29.0	8.1	93.05	93.78	97.84
RHNF3	GR153196	5561056	8.32KV_3P_Y3/0_AL	Overhead Line	71.7	270.0000		294.7	352.6	102.5	65.9	78.3	21.8	24.4	29.0	8.1	92.96	93.72	97.85
RHNF3	GR153197	5561057	8.32KV_3P_Y3/0_AL	Overhead Line	68.3	270.0000		294.5	352.4	102.5	65.9	78.3	21.8	24.4	29.0	8.1	92.88	93.66	97.85
RHNF3	GR153198	5509386	8.32KV_3P_Y3/0_AL	Overhead Line	74.1	270.0000		294.2	347.5	102.5	65.9	77.2	21.8	24.4	28.6	8.1	92.80	93.60	97.86
RHNF3	GR153199	5511210	8.32KV_3P_Y3/0_AL	Overhead Line	26.7	270.0000		293.9	347.2	102.5	65.9	77.2	21.8	24.4	28.6	8.1	92.77	93.58	97.86
RHNF3	GR153200	5511209	8.32KV_3P_Y3/0_AL	Overhead Line	38.0	270.0000		293.8	271.7	102.5	65.9	60.4	21.8	24.4	22.4	8.1	92.72	93.56	97.86
RHNF3	GR153201	5511208	8.32KV_3P_Y3/0_AL	Overhead Line	70.0	270.0000		293.7	271.6	102.5	65.9	60.4	21.8	24.4	22.4	8.1	92.65	93.53	97.85
RHNF3	GR153202	5509414	8.32KV_3P_N1/0_AL	Overhead Line	3.3	230.0000		27.4	27.4	27.4	6.2	6.1	5.8	2.7	2.7	2.5	92.65	93.53	97.85
RHNF3	GR153207	5512623	8.32KV_3P_Y3/0_AL	Overhead Line	63.1	270.0000		266.0	244.1	75.1	59.8	54.3	16.0	22.1	20.1	5.9	92.58	93.50	97.85
RHNF3	GR153208	5511213	8.32KV_3P_Y3/0_AL	Overhead Line	77.3	270.0000		263.5	244.1	75.1	59.2	54.3	16.0	21.9	20.1	5.9	92.50	93.46	97.85
RHNF3	GR153209	5511215	8.32KV_3P_Y3/0_AL	Overhead Line	64.4	270.0000		260.9	244.0	75.1	58.7	54.3	16.0	21.7	20.1	5.9	92.44	93.43	97.85
RHNF3	GR153210	5511216	8.32KV_3P_Y3/0_AL	Overhead Line	41.4	270.0000		260.7	243.9	75.1	58.7	54.3	16.0	21.7	20.1	5.9	92.40	93.41	97.85
RHNF3	GR153211	5511391	8.32KV_1P_Y1/0_AL	Overhead Line	25.0	230.0000				5.5			1.2			0.5			97.85

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
RHNF3	GR153217	5512781	8.32KV_3P_N1/0_AL	Overhead Line	2.9	230.0000		11.9	9.4	5.5	2.7	2.1	1.2	1.2	0.9	0.5	92.40	93.41	97.85
RHNF3	GR153222	5513385	8.32KV_3P_Y3/0_AL	Overhead Line	38.3	270.0000		248.7	234.5	64.1	56.0	52.3	13.6	20.8	19.4	5.1	92.36	93.40	97.85
RHNF3	GR153223	5511217	8.32KV_3P_Y3/0_AL	Overhead Line	37.3	270.0000		248.6	234.4	64.2	56.0	52.3	13.6	20.8	19.4	5.1	92.32	93.38	97.85
RHNF3	GR153224	5511218	8.32KV_3P_Y3/0_AL	Overhead Line	39.1	270.0000		248.5	234.4	61.4	56.0	52.3	13.1	20.8	19.4	4.8	92.28	93.36	97.85
RHNF3	GR153225	5511219	8.32KV_3P_Y3/0_AL	Overhead Line	95.5	270.0000		248.4	234.3	58.7	56.0	52.3	12.5	20.8	19.4	4.6	92.19	93.32	97.85
RHNF3	GR153226	5512034	8.32KV_3P_Y3/0_AL	Overhead Line	86.0	270.0000		248.1	234.2	58.7	56.0	52.3	12.5	20.8	19.4	4.6	92.11	93.28	97.86
RHNF3	GR153227	5511220	8.32KV_3P_Y3/0_AL	Overhead Line	78.2	270.0000		247.9	234.2	58.7	56.0	52.3	12.5	20.8	19.4	4.6	92.03	93.25	97.86
RHNF3	GR153228	5511221	8.32KV_3P_Y3/0_AL	Overhead Line	34.9	270.0000		247.7	234.1	58.7	56.0	52.3	12.5	20.8	19.4	4.6	91.99	93.23	97.86
RHNF3	GR153229	5511222	8.32KV_3P_Y3/0_AL	Overhead Line	16.7	270.0000		247.6	234.0	58.7	56.0	52.3	12.5	20.8	19.4	4.6	91.98	93.22	97.86
RHNF3	GR153230	16477209	DEFAULT	Overhead Line	61.1	1000.0000		247.6	234.0	58.7	56.0	52.3	12.5	5.6	5.2	1.2	91.88	93.16	97.86
RHNF3	GR153231	16365251	DEFAULT	Overhead Line	16.2	1000.0000		247.3	233.9	50.5	56.0	52.3	10.7	5.6	5.2	1.1	91.86	93.15	97.86
RHNF3	GR153232	16365091	DEFAULT	Overhead Line	21.1	1000.0000		59.9	37.7	16.4	13.6	8.4	3.5	1.4	0.8	0.3	91.85	93.15	97.86
RHNF3	GR153233	16365089	DEFAULT	Overhead Line	50.8	1000.0000		59.9	37.7	16.4	13.6	8.4	3.5	1.4	0.8	0.3	91.83	93.14	97.85
RHNF3	GR153234	16365082	DEFAULT	Overhead Line	61.3	1000.0000		59.9	28.3	16.4	13.6	6.3	3.5	1.4	0.6	0.3	91.81	93.13	97.85
RHNF3	GR153235	16365077	DEFAULT	Overhead Line	49.3	1000.0000		59.9	28.3	16.4	13.6	6.3	3.5	1.4	0.6	0.3	91.79	93.13	97.85
RHNF3	GR153236	16365075	DEFAULT	Overhead Line	61.1	1000.0000		59.9	28.3	16.4	13.6	6.3	3.5	1.4	0.6	0.3	91.77	93.13	97.84
RHNF3	GR153237	16365003	DEFAULT	Overhead Line	30.1	1000.0000		0.0	9.4	5.5	0.0	2.1	1.2	0.0	0.2	0.1	91.77	93.12	97.84
RHNF3	GR153238	16365004	DEFAULT	Overhead Line	32.4	1000.0000		0.0	9.4	5.5	0.0	2.1	1.2	0.0	0.2	0.1	91.77	93.12	97.84
RHNF3	GR153239	16365005	DEFAULT	Overhead Line	42.4	1000.0000		0.0	9.4	5.5	0.0	2.1	1.2	0.0	0.2	0.1	91.77	93.12	97.84
RHNF3	GR153240	16477221	DEFAULT	Overhead Line	59.1	1000.0000		0.0	9.4	5.5	0.0	2.1	1.2	0.0	0.2	0.1	91.77	93.12	97.84
RHNF3	GR153241	16364944	DEFAULT	Overhead Line	63.7	1000.0000		0.0	9.4	0.0	0.0	2.1	0.0	0.0	0.2	0.0	91.77	93.11	97.84
RHNF3	GR153242	16364892	DEFAULT	Overhead Line	37.4	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.77	93.11	97.84
RHNF3	GR153243	16364891	DEFAULT	Overhead Line	36.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.77	93.11	97.84
RHNF3	GR153244	16364890	DEFAULT	Overhead Line	54.3	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.77	93.11	97.84
RHNF3	GR153246	5559046	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000			9.4			2.1			0.9			93.11	
RHNF3	GR153253	5511631	8.32KV_3P_N1/0_AL	Overhead Line	5.7	230.0000		59.9	18.8	10.9	13.6	4.2	2.3	5.9	1.8	1.0	91.77	93.13	97.84
RHNF3	GR153282	16365250	DEFAULT	Overhead Line	27.1	1000.0000		0.0	124.7	0.0	0.0	27.9	0.0	0.0	2.8	0.0	91.86	93.13	97.86
RHNF3	GR153283	16368943	DEFAULT	Overhead Line	30.4	1000.0000			124.7			27.9			2.8			93.11	
RHNF3	GR153284	16361807	8.32KV_1P_Y1/0_AL	Overhead Line	65.0	230.0000			124.7			27.9			12.1			93.08	
RHNF3	GR153285	11240921	8.32KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000			124.6			27.9			12.1			93.08	
RHNF3	GR153286	5512832	8.32KV_1P_Y1/0_AL	Overhead Line	15.3	230.0000			124.6			27.9			12.1			93.07	
RHNF3	GR153287	5512833	8.32KV_1P_Y1/0_AL	Overhead Line	67.2	230.0000			119.9			26.8			11.7			93.05	
RHNF3	GR153288	5512834	8.32KV_1P_Y1/0_AL	Overhead Line	84.6	230.0000			119.9			26.8			11.7			93.01	
RHNF3	GR153289	5512977	8.32KV_1P_Y1/0_AL	Overhead Line	82.9	230.0000			119.8			26.8			11.7			92.98	
RHNF3	GR153290	5512978	8.32KV_1P_Y1/0_AL	Overhead Line	30.6	230.0000			119.8			26.8			11.7			92.97	
RHNF3	GR153291	5509618	8.32KV_1P_Y1/0_AL	Overhead Line	28.3	230.0000			67.9			15.2			6.6			92.96	
RHNF3	GR153292	5509619	8.32KV_1P_Y1/0_AL	Overhead Line	109.4	230.0000			66.0			14.8			6.4			92.94	
RHNF3	GR153293	5509620	8.32KV_1P_Y1/0_AL	Overhead Line	68.1	230.0000			66.0			14.8			6.4			92.93	
RHNF3	GR153294	5509621	8.32KV_1P_Y1/0_AL	Overhead Line	77.2	230.0000			56.6			12.7			5.5			92.91	
RHNF3	GR153295	5509622	8.32KV_1P_Y1/0_AL	Overhead Line	78.6	230.0000			56.6			12.7			5.5			92.90	
RHNF3	GR153296	5509624	8.32KV_1P_Y1/0_AL	Overhead Line	37.7	230.0000			56.6			12.7			5.5			92.89	
RHNF3	GR153297	5509625	8.32KV_1P_Y1/0_AL	Overhead Line	37.1	230.0000			9.4			2.1			0.9			92.89	
RHNF3	GR153298	5509626	8.32KV_1P_Y1/0_AL	Overhead Line	73.4	230.0000			9.4			2.1			0.9			92.89	
RHNF3	GR153299	5509627	8.32KV_1P_Y1/0_AL	Overhead Line	67.0	230.0000			9.4			2.1			0.9			92.89	
RHNF3	GR153300	5509628	8.32KV_1P_Y1/0_AL	Overhead Line	57.2	230.0000			4.7			1.1			0.5			92.88	
RHNF3	GR153301	5509214	8.32KV_1P_Y1/0_AL	Overhead Line	58.9	230.0000			4.7			1.1			0.5			92.88	
RHNF3	GR153306	5510697	8.32KV_1P_Y1/0_AL	Overhead Line	5.8	230.0000			47.2			10.6			4.6			92.89	
RHNF3	GR153333	5511595	8.32KV_1P_Y1/0_AL	Overhead Line	6.0	230.0000			51.9			11.6			5.1			92.97	
RHNF3	GR153358	16477204	DEFAULT	Overhead Line	17.0	1000.0000		187.3	71.4	34.1	42.5	16.0	7.3	4.2	1.6	0.7	91.84	93.15	97.86
RHNF3	GR153359	16365146	DEFAULT	Overhead Line	39.7	1000.0000		187.3	71.4	34.1	42.5	16.0	7.3	4.2	1.6	0.7	91.80	93.14	97.85
RHNF3	GR153360	5511225	8.32KV_3P_Y3/0_AL	Overhead Line	53.8	270.0000		187.2	71.4	31.4	42.5	16.0	6.7	15.7	5.9	2.5	91.76	93.14	97.84
RHNF3	GR153361	5509631	8.32KV_3P_Y1/0_AL	Overhead Line	3.6	230.0000		23.9	18.9	10.9	5.4	4.2	2.3	2.4	1.8	1.0	91.76	93.14	97.84
RHNF3	GR153388	5511226	8.32KV_3P_Y3/0_AL	Overhead Line	47.3	270.0000		163.2	52.6	20.4	37.0	11.7	4.3	13.7	4.4	1.6	91.73	93.15	97.84
RHNF3	GR153389	5511227	8.32KV_3P_Y3/0_AL	Overhead Line	63.3	270.0000		157.2	47.9	17.7	35.7	10.7	3.8	13.2	4.0	1.4	91.69	93.16	97.83
RHNF3	GR153390	18100976	8.32KV_3P_Y3/0_AL	Overhead Line	9.9	270.0000		157.1	47.9	17.7	35.7	10.7	3.8	13.2	4.0	1.4	91.69	93.16	97.83
RHNF3	GR153391	11241232	8.32KV_3P_Y3/0_AL	Overhead Line	5.5	270.0000		157.1	47.9	17.7	35.7	10.7	3.8	13.2	4.0	1.4	91.68	93.16	97.83
RHNF3	GR153392	5511228	8.32KV_3P_Y3/0_AL	Overhead Line	38.8	270.0000		157.1	47.9	15.0	35.7	10.7	3.2	13.2	4.0	1.2	91.66	93.16	97.83
RHNF3	GR153393	18100980	8.32KV_3P_Y3/0_AL	Overhead Line	39.5	270.0000		157.1	47.9	15.0	35.7	10.7	3.2	13.2	4.0	1.2	91.64	93.16	97.83
RHNF3	GR153394	5511229	8.32KV_3P_Y556_AL	Overhead Line	63.5	530.0000		157.0	47.9	15.0	35.7	10.7	3.2	6.7	2.0	0.6	91.61	93.17	97.82
RHNF3	GR153395	5511230	8.32KV_3P_Y556_AL	Overhead Line	81.1	530.0000		157.0	47.9	15.0	35.7	10.7	3.2	6.7	2.0	0.6	91.58	93.19	97.82
RHNF3	GR153396	5511231	8.32KV_3P_Y556_AL	Overhead Line	86.8	530.0000		157.0	38.5	15.0	35.7	8.6	3.2	6.7	1.6	0.6	91.55	93.20	97.81
RHNF3	GR153397	5511368	8.32KV_3P_Y556_AL	Overhead Line	43.2	530.0000		156.9	33.8	15.0	35.7	7.5	3.2	6.7	1.4	0.6	91.53	93.21	97.80
RHNF3	GR153398	5512165	8.32KV_3P_Y556_AL	Overhead Line	44.5	530.0000		156.9	33.8	15.0	35.7	7.5	3.2	6.7	1.4	0.6	91.51	93.22	97.80
RHNF3	GR153399	5512166	8.32KV_3P_Y556_AL	Overhead Line	46.7	530.0000		156.8	33.8	15.0	35.7	7.5	3.2	6.7	1.4	0.6	91.50	93.22	97.80
RHNF3	GR153400	5508122	8.32KV_1P_Y1/0_AL	Overhead Line	18.3	230.0000			9.4			2.1			0.9			93.22	
RHNF3	GR153401	5511632	8.32KV_1P_Y1/0_AL	Overhead Line	45.6	230.0000			0.0			0.0			0.0			93.22	
RHNF3	GR153402	5511633	8.32KV_1P_Y1/0_AL	Overhead Line	36.6	230.0000			0.0			0.0			0.0			93.22	
RHNF3	GR153405	5512167	8.32KV_3P_Y556_AL	Overhead Line	36.7	530.0000		156.8	24.4	15.0	35.7	5.4	3.2	6.7	1.0	0.6	91.48	93.23	97.79
RHNF3	GR153406	5512168	8.32KV_3P_Y556_AL	Overhead Line	54.3	530.0000		156.8	24.4	15.0	35.7	5.4	3.2	6.7	1.0	0.6	91.46	93.24	97.79
RHNF3	GR153407	5512169	8.32KV_3P_Y556_AL	Overhead Line	38.2	530.0000		156.8	24.4	15.0	35.7	5.4	3.2	6.7	1.0	0.6	91.45	93.25	97.78
RHNF3	GR153408	11430579	8.32KV_3P_Y556_AL	Overhead Line	45.7	530.0000		156.7	24.4	15.0	35.7	5.4	3.2	6.7	1.0	0.6	91.43	93.26	97.78
RHNF3	GR153409	11430589	8.32KV_3P_Y556_AL	Overhead Line	38.8	530.0000		156.7	24.4	15.0	35.7	5.4	3.2	6.7	1.0	0.6	91.42	93.27	97.77
RHNF3	GR153410	16464835	DEFAULT	Overhead Line	20.5	1000.0000		156.7	24.4	15.0	35.7	5.4	3.2	3.6	0.5	0.3	91.40	93.27	97.77
RHNF3	GR153411	5512170	8.32KV_3P_Y556_AL	Overhead Line	53.6	530.0000		156.7	24.4	15.0	35.7	5.4	3.2	6.7	1.0	0.6	91.38	93.28	97.76
RHNF3	GR153412	11357717	8.32KV_3P_Y556_AL	Overhead Line	32.5	530.0000		156.6	24.4	15.0	35.7	5.4	3.2	6.7	1.0	0.6	91.36	93.29	97.76
RHNF3	GR153413	11357702	8.32KV_3P_Y556_AL	Overhead Line	52.1	530.0000		156.6	24.4	15.0	35.7	5.4	3.2	6.7	1.0	0.6	91.35	93.30	97.75
RHNF3	GR153414	5512172	8.32KV_3P_Y556_AL	Overhead Line	69.5	530.0000		156.6	24.4	15.0	35.7	5.4	3.2	6.7	1.0	0.6	91.32	93.31	97.75
RHNF3	GR153415	5511445	8.32KV_3P_Y3/0_AL	Overhead Line	79.5	270.0000		156.5	24.4	6.8	35.7	5.4	1.4	13.2	2.0	0.5	91.27	93.33	97.74

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
RHNF3	GR153416	5511444	8.32KV_3P_Y3/0_AL	Overhead Line	39.5	270.0000		156.5	24.4	6.8	35.7	5.4	1.4	13.2	2.0	0.5	91.25	93.33	97.74
RHNF3	GR153417	5511443	8.32KV_3P_Y3/0_AL	Overhead Line	34.9	270.0000		156.4	24.4	6.8	35.7	5.4	1.4	13.2	2.0	0.5	91.23	93.34	97.73
RHNF3	GR153418	5511442	8.32KV_3P_Y3/0_AL	Overhead Line	51.5	270.0000		156.4	24.4	6.8	35.7	5.4	1.4	13.2	2.0	0.5	91.20	93.35	97.73
RHNF3	GR153419	5511441	8.32KV_3P_Y3/0_AL	Overhead Line	68.5	270.0000		156.3	24.4	6.8	35.7	5.4	1.4	13.2	2.0	0.5	91.16	93.36	97.72
RHNF3	GR153420	5509433	8.32KV_3P_Y3/0_AL	Overhead Line	39.4	270.0000		156.3	24.4	2.7	35.7	5.4	0.6	13.2	2.0	0.2	91.13	93.37	97.72
RHNF3	GR153421	5511452	8.32KV_3P_Y3/0_AL	Overhead Line	81.5	270.0000		156.2	24.4	2.7	35.7	5.4	0.6	13.2	2.0	0.2	91.08	93.39	97.71
RHNF3	GR153422	5512927	8.32KV_3P_Y3/0_AL	Overhead Line	30.8	270.0000		156.1	24.4	2.7	35.7	5.4	0.6	13.2	2.0	0.2	91.07	93.39	97.71
RHNF3	GR153423	18100964	8.32KV_3P_Y3/0_AL	Overhead Line	30.8	270.0000		156.1	24.4	2.7	35.7	5.4	0.6	13.2	2.0	0.2	91.05	93.40	97.71
RHNF3	GR153424	5510006	8.32KV_3P_Y3/0_AL	Overhead Line	27.7	270.0000		156.1	24.4	2.7	35.7	5.4	0.6	13.2	2.0	0.2	91.03	93.41	97.71
RHNF3	GR153425	5512929	8.32KV_3P_Y3/0_AL	Overhead Line	15.4	270.0000		156.1	24.5	2.7	35.7	5.4	0.6	13.2	2.0	0.2	91.02	93.41	97.71
RHNF3	GR153426	5511155	8.32KV_3P_Y1/0_AL	Overhead Line	4.6	230.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.02	93.41	97.71
RHNF3	GR153427	5511156	8.32KV_3P_Y556_AL	Overhead Line	28.7	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.02	93.41	97.71
RHNF3	GR153428	5511157	8.32KV_3P_Y556_AL	Overhead Line	58.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.02	93.41	97.71
RHNF3	GR153429	5511158	8.32KV_3P_Y556_AL	Overhead Line	60.2	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.02	93.41	97.71
RHNF3	GR153430	5511159	8.32KV_3P_Y556_AL	Overhead Line	40.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.02	93.41	97.71
RHNF3	GR153431	5511160	8.32KV_3P_Y556_AL	Overhead Line	40.4	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.02	93.41	97.71
RHNF3	GR153432	5513219	8.32KV_3P_Y556_AL	Overhead Line	35.8	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.02	93.41	97.71
RHNF3	GR153433	5512931	8.32KV_3P_Y3/0_AL	Overhead Line	42.3	270.0000		156.1	24.5	2.7	35.7	5.5	0.6	13.2	2.0	0.2	91.00	93.42	97.70
RHNF3	GR153434	18098488	8.32KV_3P_Y3/0_AL	Overhead Line	3.6	270.0000		156.0	24.5	2.7	35.7	5.5	0.6	13.2	2.0	0.2	90.99	93.42	97.70
RHNF3	GR153435	5511437	8.32KV_3P_Y3/0_AL	Overhead Line	81.5	270.0000		156.0	24.5	2.7	35.7	5.5	0.6	13.2	2.0	0.2	90.94	93.43	97.70
RHNF3	GR153436	5509116	8.32KV_3P_Y3/0_AL	Overhead Line	58.9	270.0000		155.9	19.8	2.7	35.7	4.4	0.6	13.2	1.6	0.2	90.91	93.45	97.69
RHNF3	GR153437	5508307	8.32KV_3P_Y3/0_AL	Overhead Line	17.5	270.0000		155.9	19.8	2.7	35.7	4.4	0.6	13.2	1.6	0.2	90.90	93.45	97.69
RHNF3	GR153438	18100581	8.32KV_3P_Y3/0_AL	Overhead Line	3.8	270.0000		155.8	19.8	2.7	35.7	4.4	0.6	13.2	1.6	0.2	90.90	93.45	97.69
RHNF3	GR153439	5508308	8.32KV_3P_Y3/0_AL	Overhead Line	60.4	270.0000		155.8	15.1	2.7	35.7	3.4	0.6	13.2	1.2	0.2	90.86	93.46	97.68
RHNF3	GR153440	5509919	8.32KV_3P_Y3/0_AL	Overhead Line	54.2	270.0000		155.8	12.2	2.7	35.7	2.7	0.6	13.2	1.0	0.2	90.83	93.48	97.68
RHNF3	GR153441	5509920	8.32KV_3P_Y3/0_AL	Overhead Line	60.8	270.0000		155.7	12.2	0.0	35.7	2.7	0.0	13.2	1.0	0.0	90.79	93.49	97.67
RHNF3	GR153442	5509516	8.32KV_1P_N1/0_AL	Overhead Line	4.4	230.0000		41.9			9.6			4.2			90.79		
RHNF3	GR153444	5509576	8.32KV_1P_Y1/0_AL	Overhead Line	21.1	230.0000		41.9			9.6			4.2			90.78		
RHNF3	GR153445	5508001	8.32KV_1P_Y1/0_AL	Overhead Line	48.2	230.0000		12.0			2.7			1.2			90.78		
RHNF3	GR153446	5508000	8.32KV_1P_Y1/0_AL	Overhead Line	48.4	230.0000		12.0			2.7			1.2			90.78		
RHNF3	GR153447	5507999	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000		12.0			2.7			1.2			90.78		
RHNF3	GR153450	5508002	8.32KV_1P_Y1/0_AL	Overhead Line	40.4	230.0000		29.9			6.9			3.0			90.78		
RHNF3	GR153451	5508003	8.32KV_1P_Y1/0_AL	Overhead Line	57.8	230.0000		18.0			4.1			1.8			90.77		
RHNF3	GR153452	5508004	8.32KV_1P_Y1/0_AL	Overhead Line	32.7	230.0000		18.0			4.1			1.8			90.77		
RHNF3	GR153453	5508005	8.32KV_1P_Y1/0_AL	Overhead Line	36.3	230.0000		18.0			4.1			1.8			90.77		
RHNF3	GR153454	5508006	8.32KV_1P_Y1/0_AL	Overhead Line	30.2	230.0000		0.0			0.0			0.0			90.77		
RHNF3	GR153459	5509921	8.32KV_3P_Y3/0_AL	Overhead Line	71.2	270.0000		113.8	9.4	0.0	26.1	2.1	0.0	9.7	0.8	0.0	90.76	93.51	97.67
RHNF3	GR153460	5508306	8.32KV_1P_Y1/0_AL	Overhead Line	21.7	230.0000		95.8			22.0			9.6			90.75		
RHNF3	GR153461	5508305	8.32KV_1P_Y1/0_AL	Overhead Line	27.7	230.0000		95.8			22.0			9.6			90.75		
RHNF3	GR153462	5508304	8.32KV_1P_Y1/0_AL	Overhead Line	34.8	230.0000		95.8			22.0			9.6			90.73		
RHNF3	GR153463	5508303	8.32KV_1P_Y1/0_AL	Overhead Line	41.6	230.0000		89.8			20.6			9.0			90.72		
RHNF3	GR153464	5508302	8.32KV_1P_Y1/0_AL	Overhead Line	17.0	230.0000		83.8			19.2			8.4			90.72		
RHNF3	GR153465	5507878	8.32KV_1P_Y1/0_AL	Overhead Line	40.0	230.0000		35.9			8.2			3.6			90.71		
RHNF3	GR153466	5512866	8.32KV_1P_Y1/0_AL	Overhead Line	37.8	230.0000		35.9			8.2			3.6			90.71		
RHNF3	GR153467	5507877	8.32KV_1P_Y1/0_AL	Overhead Line	35.1	230.0000		23.9			5.5			2.4			90.70		
RHNF3	GR153468	5507876	8.32KV_1P_Y1/0_AL	Overhead Line	26.3	230.0000		23.9			5.5			2.4			90.70		
RHNF3	GR153469	5507875	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000		23.9			5.5			2.4			90.70		
RHNF3	GR153470	5507874	8.32KV_1P_Y1/0_AL	Overhead Line	27.8	230.0000		23.9			5.5			2.4			90.70		
RHNF3	GR153471	5507873	8.32KV_1P_Y1/0_AL	Overhead Line	27.6	230.0000		23.9			5.5			2.4			90.70		
RHNF3	GR153472	5507872	8.32KV_1P_Y1/0_AL	Overhead Line	29.5	230.0000		18.0			4.1			1.8			90.69		
RHNF3	GR153473	5507871	8.32KV_1P_Y1/0_AL	Overhead Line	30.0	230.0000		18.0			4.1			1.8			90.69		
RHNF3	GR153474	5507870	8.32KV_1P_Y1/0_AL	Overhead Line	29.8	230.0000		18.0			4.1			1.8			90.69		
RHNF3	GR153475	5559029	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000		18.0			4.1			1.8			90.69		
RHNF3	GR153476	5507882	8.32KV_1P_Y1/0_AL	Overhead Line	32.3	230.0000		0.0			0.0			0.0			90.69		
RHNF3	GR153477	5507883	8.32KV_1P_Y1/0_AL	Overhead Line	30.4	230.0000		0.0			0.0			0.0			90.69		
RHNF3	GR153484	5508291	8.32KV_1P_Y1/0_AL	Overhead Line	25.2	230.0000		47.9			11.0			4.8			90.71		
RHNF3	GR153485	14631701	8.32KV_1P_Y1/0_AL	Overhead Line	29.9	230.0000		35.9			8.2			3.6			90.71		
RHNF3	GR153486	5508292	8.32KV_1P_Y1/0_AL	Overhead Line	39.0	230.0000		35.9			8.2			3.6			90.70		
RHNF3	GR153487	5507881	8.32KV_1P_Y1/0_AL	Overhead Line	37.9	230.0000		12.0			2.7			1.2			90.70		
RHNF3	GR153488	5511706	8.32KV_1P_Y1/0_AL	Overhead Line	50.2	230.0000		12.0			2.7			1.2			90.70		
RHNF3	GR153489	5507880	8.32KV_1P_Y1/0_AL	Overhead Line	43.9	230.0000		0.0			0.0			0.0			90.70		
RHNF3	GR153490	5507879	8.32KV_1P_Y1/0_AL	Overhead Line	55.5	230.0000		0.0			0.0			0.0			90.70		
RHNF3	GR153493	5508293	8.32KV_1P_Y1/0_AL	Overhead Line	15.4	230.0000		23.9			5.5			2.4			90.70		
RHNF3	GR153494	5508294	8.32KV_1P_Y1/0_AL	Overhead Line	17.9	230.0000		23.9			5.5			2.4			90.70		
RHNF3	GR153495	5508295	8.32KV_1P_Y1/0_AL	Overhead Line	48.1	230.0000		12.0			2.7			1.2			90.70		
RHNF3	GR153496	5508296	8.32KV_1P_Y1/0_AL	Overhead Line	31.6	230.0000		12.0			2.7			1.2			90.70		
RHNF3	GR153497	5508297	8.32KV_1P_Y1/0_AL	Overhead Line	29.4	230.0000		12.0			2.7			1.2			90.70		
RHNF3	GR153498	5508298	8.32KV_1P_Y1/0_AL	Overhead Line	25.4	230.0000		12.0			2.7			1.2			90.70		
RHNF3	GR153499	5508299	8.32KV_1P_Y1/0_AL	Overhead Line	27.3	230.0000		12.0			2.7			1.2			90.70		
RHNF3	GR153500	5508300	8.32KV_1P_Y1/0_AL	Overhead Line	23.8	230.0000		12.0			2.7			1.2			90.69		
RHNF3	GR153501	5507729	8.32KV_1P_Y1/0_AL	Overhead Line	34.6	230.0000		0.0			0.0			0.0			90.69		
RHNF3	GR153502	5508301	8.32KV_1P_Y1/0_AL	Overhead Line	30.9	230.0000		0.0			0.0			0.0			90.69		
RHNF3	GR153503	5512870	8.32KV_1P_Y1/0_AL	Overhead Line	37.3	230.0000		0.0			0.0			0.0			90.69		
RHNF3	GR153510	5512814	8.32KV_1P_Y1/0_AL	Overhead Line	20.0	230.0000		6.0			1.4			0.6			90.72		
RHNF3	GR153511	5512812	8.32KV_1P_Y1/0_AL	Overhead Line	29.6	230.0000		6.0			1.4			0.6			90.72		
RHNF3	GR153512	5559759	8.32KV_1P_Y1/0_AL	Overhead Line	31.8	230.0000		6.0			1.4			0.6			90.72		
RHNF3	GR153513	5559391	8.32KV_1P_Y1/0_AL	Overhead Line	35.2	230.0000		6.0			1.4			0.6			90.72		
RHNF3	GR153518	5509922	8.32KV_3P_Y3/0_AL	Overhead Line	25.4	270.0000		18.0	9.4	0.0	4.1	2.1	0.0	1.5	0.8	0.0	90.76	93.51	97.67

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
RHNF3	GR153519	18100996	8.32KV_3P_Y3/0_AL	Overhead Line	5.0	270.0000		18.0	9.4	0.0	4.1	2.1	0.0	1.5	0.8	0.0	90.76	93.51	97.67
RHNF3	GR153520	5509923	8.32KV_3P_Y3/0_AL	Overhead Line	30.5	270.0000		18.0	9.4	0.0	4.1	2.1	0.0	1.5	0.8	0.0	90.76	93.50	97.67
RHNF3	GR153521	5509924	8.32KV_3P_Y3/0_AL	Overhead Line	28.9	270.0000		0.0	9.4	0.0	0.0	2.1	0.0	0.0	0.8	0.0	90.76	93.50	97.67
RHNF3	GR153522	18101000	8.32KV_3P_Y3/0_AL	Overhead Line	2.6	270.0000		0.0	9.4	0.0	0.0	2.1	0.0	0.0	0.8	0.0	90.76	93.50	97.67
RHNF3	GR153523	5509925	8.32KV_3P_Y3/0_AL	Overhead Line	4.0	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.76	93.50	97.67
RHNF3	GR153524	18100998	8.32KV_3P_Y3/0_AL	Overhead Line	28.7	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.76	93.50	97.67
RHNF3	GR153525	5510648	8.32KV_3P_Y3/0_AL	Overhead Line	41.2	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.76	93.50	97.67
RHNF3	GR153528	5511439	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000		18.0			4.1			1.8			90.76		
RHNF3	GR153543	5511451	8.32KV_1P_Y1/0_AL	Overhead Line	17.2	230.0000				4.1			0.9			0.4			97.72
RHNF3	GR153562	5511790	8.32KV_1P_Y1/0_AL	Overhead Line	4.4	230.0000				2.7			0.6			0.3			97.85
RHNF3	GR153563	11241245	8.32KV_1P_Y1/0_AL	Overhead Line	59.4	230.0000				2.7			0.6			0.3			97.85
RHNF3	GR153568	5511792	8.32KV_1P_Y1/0_AL	Overhead Line	4.2	230.0000		2.4			0.5			0.2			92.50		
RHNF3	GR153569	11241283	8.32KV_1P_Y1/0_AL	Overhead Line	14.9	230.0000		2.4			0.5			0.2			92.50		
RHNF3	GR153570	5511793	8.32KV_1P_Y1/0_AL	Overhead Line	71.5	230.0000		2.4			0.5			0.2			92.50		
RHNF3	GR153571	5511794	8.32KV_1P_Y1/0_AL	Overhead Line	58.6	230.0000		2.4			0.5			0.2			92.50		
RHNF3	GR153576	5511211	8.32KV_1P_Y1/0_AL	Overhead Line	20.0	230.0000			75.5			16.8			7.3			93.58	
RHNF3	GR153577	5511212	8.32KV_1P_Y1/0_AL	Overhead Line	17.2	230.0000			75.5			16.8			7.3			93.57	
RHNF3	GR153608	5512442	8.32KV_1P_Y1/0_AL	Overhead Line	17.6	230.0000				123.7			26.2			11.4			98.16
RHNF3	GR153609	5558652	8.32KV_1P_Y1/0_AL	Overhead Line	38.4	230.0000				123.7			26.2			11.4			98.14
RHNF3	GR153610	11340740	8.32KV_1P_Y1/0_AL	Overhead Line	9.6	230.0000				0.0			0.0			0.0			98.14
RHNF3	GR153611	18081743	8.32KV_1P_Y1/0_AL	Overhead Line	3.2	230.0000				123.7			26.2			11.4			98.14
RHNF3	GR153612	11340738	8.32KV_1P_Y1/0_AL	Overhead Line	6.9	230.0000				123.7			26.2			11.4			98.13
RHNF3	GR153613	5558653	8.32KV_1P_Y1/0_AL	Overhead Line	4.0	230.0000				123.7			26.2			11.4			98.13
RHNF3	GR153614	11340736	8.32KV_1P_Y1/0_AL	Overhead Line	9.8	230.0000				0.0			0.0			0.0			98.13
RHNF3	GR153615	11340737	8.32KV_1P_Y1/0_AL	Overhead Line	76.5	230.0000				123.7			26.2			11.4			98.10
RHNF3	GR153616	5558655	8.32KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000				123.6			26.2			11.4			98.07
RHNF3	GR153617	5558654	8.32KV_1P_Y1/0_AL	Overhead Line	69.2	230.0000				123.6			26.2			11.4			98.04
RHNF3	GR153618	5558656	8.32KV_1P_Y1/0_AL	Overhead Line	67.8	230.0000				123.6			26.2			11.4			98.01
RHNF3	GR153619	5558658	8.32KV_1P_Y1/0_AL	Overhead Line	68.2	230.0000				123.5			26.2			11.4			97.99
RHNF3	GR153620	5558659	8.32KV_1P_Y1/0_AL	Overhead Line	69.2	230.0000				123.5			26.2			11.4			97.96
RHNF3	GR153621	5559053	8.32KV_1P_Y1/0_AL	Overhead Line	66.6	230.0000				123.5			26.2			11.4			97.93
RHNF3	GR153622	5559052	8.32KV_1P_Y1/0_AL	Overhead Line	66.4	230.0000				123.4			26.2			11.4			97.90
RHNF3	GR153623	5511269	8.32KV_1P_Y1/0_AL	Overhead Line	78.8	230.0000				123.4			26.2			11.4			97.87
RHNF3	GR153624	5559054	8.32KV_1P_Y1/0_AL	Overhead Line	80.2	230.0000				123.4			26.2			11.4			97.83
RHNF3	GR153625	5559055	8.32KV_1P_Y1/0_AL	Overhead Line	79.3	230.0000				123.3			26.2			11.4			97.80
RHNF3	GR153626	5559056	8.32KV_1P_Y1/0_AL	Overhead Line	80.2	230.0000				123.3			26.2			11.4			97.76
RHNF3	GR153627	5559057	8.32KV_1P_Y1/0_AL	Overhead Line	76.9	230.0000				123.2			26.2			11.4			97.73
RHNF3	GR153628	5559058	8.32KV_1P_Y1/0_AL	Overhead Line	76.4	230.0000				123.2			26.2			11.4			97.70
RHNF3	GR153629	5559059	8.32KV_1P_Y1/0_AL	Overhead Line	84.5	230.0000				123.2			26.2			11.4			97.66
RHNF3	GR153630	5559060	8.32KV_1P_Y1/0_AL	Overhead Line	81.4	230.0000				123.1			26.2			11.4			97.63
RHNF3	GR153631	5559061	8.32KV_1P_Y1/0_AL	Overhead Line	85.4	230.0000				123.1			26.2			11.4			97.59
RHNF3	GR153632	5559062	8.32KV_1P_Y1/0_AL	Overhead Line	85.0	230.0000				123.0			26.2			11.4			97.56
RHNF3	GR153633	5513581	8.32KV_1P_Y1/0_AL	Overhead Line	79.9	230.0000				121.4			25.9			11.3			97.52
RHNF3	GR153634	5559063	8.32KV_1P_Y1/0_AL	Overhead Line	84.9	230.0000				121.3			25.9			11.3			97.49
RHNF3	GR153635	5558876	8.32KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000				2.7			0.6			0.3			97.49
RHNF3	GR153636	11281736	8.32KV_1P_Y1/0_AL	Overhead Line	63.3	230.0000				2.7			0.6			0.3			97.49
RHNF3	GR153637	5558877	8.32KV_1P_Y1/0_AL	Overhead Line	66.9	230.0000				2.7			0.6			0.3			97.49
RHNF3	GR153640	5559069	8.32KV_1P_Y1/0_AL	Overhead Line	78.1	230.0000				118.6			25.3			11.0			97.45
RHNF3	GR153641	5511270	8.32KV_1P_Y1/0_AL	Overhead Line	72.2	230.0000				118.6			25.3			11.0			97.42
RHNF3	GR153642	5559070	8.32KV_1P_Y1/0_AL	Overhead Line	85.4	230.0000				116.9			25.0			10.9			97.39
RHNF3	GR153643	5559071	8.32KV_1P_Y1/0_AL	Overhead Line	86.7	230.0000				116.9			25.0			10.9			97.35
RHNF3	GR153644	5559072	8.32KV_1P_Y1/0_AL	Overhead Line	80.5	230.0000				116.8			25.0			10.9			97.32
RHNF3	GR153645	5559073	8.32KV_1P_Y1/0_AL	Overhead Line	62.1	230.0000				116.8			25.0			10.9			97.30
RHNF3	GR153646	5559074	8.32KV_1P_Y1/0_AL	Overhead Line	62.2	230.0000				116.8			25.0			10.9			97.27
RHNF3	GR153647	5559075	8.32KV_1P_Y1/0_AL	Overhead Line	60.1	230.0000				116.7			25.0			10.9			97.25
RHNF3	GR153648	5559076	8.32KV_1P_Y1/0_AL	Overhead Line	60.4	230.0000				116.7			25.0			10.9			97.22
RHNF3	GR153649	5559077	8.32KV_1P_Y1/0_AL	Overhead Line	56.4	230.0000				116.7			25.0			10.9			97.20
RHNF3	GR153650	5511378	8.32KV_1P_Y1/0_AL	Overhead Line	3.3	230.0000				2.7			0.6			0.3			97.20
RHNF3	GR153651	11283973	8.32KV_1P_Y1/0_AL	Overhead Line	67.9	230.0000				2.7			0.6			0.3			97.20
RHNF3	GR153654	5559078	8.32KV_1P_Y1/0_AL	Overhead Line	64.5	230.0000				114.0			24.4			10.6			97.17
RHNF3	GR153655	5559087	8.32KV_1P_Y1/0_AL	Overhead Line	57.9	230.0000				113.9			24.4			10.6			97.15
RHNF3	GR153656	5512451	8.32KV_1P_Y1/0_AL	Overhead Line	59.3	230.0000				113.9			24.4			10.6			97.13
RHNF3	GR153657	18164019	DEFAULT	Overhead Line	5.0	1000.0000				10.9			2.3			0.2			97.13
RHNF3	GR153658	19033325	DEFAULT	Overhead Line	17.2	1000.0000				10.9			2.3			0.2			97.13
RHNF3	GR153663	5559088	8.32KV_1P_Y1/0_AL	Overhead Line	62.7	230.0000				103.1			22.1			9.6			97.10
RHNF3	GR153664	5559090	8.32KV_1P_Y1/0_AL	Overhead Line	73.7	230.0000				97.7			20.9			9.1			97.08
RHNF3	GR153665	5559091	8.32KV_1P_Y1/0_AL	Overhead Line	64.6	230.0000				96.6			20.7			9.0			97.06
RHNF3	GR153666	5559243	8.32KV_1P_Y1/0_AL	Overhead Line	78.1	230.0000				96.5			20.7			9.0			97.03
RHNF3	GR153667	5511271	8.32KV_1P_Y1/0_AL	Overhead Line	75.6	230.0000				93.8			20.1			8.8			97.01
RHNF3	GR153668	5559244	8.32KV_1P_Y1/0_AL	Overhead Line	75.8	230.0000				93.8			20.1			8.8			96.98
RHNF3	GR153669	5511280	8.32KV_1P_Y1/0_AL	Overhead Line	19.4	230.0000				2.7			0.6			0.3			96.98
RHNF3	GR153670	5560060	8.32KV_1P_Y1/0_AL	Overhead Line	2.1	230.0000				2.7			0.6			0.3			96.98
RHNF3	GR153671	11340762	8.32KV_1P_Y1/0_AL	Overhead Line	37.9	230.0000				2.7			0.6			0.3			96.98
RHNF3	GR153672	5560061	8.32KV_1P_Y1/0_AL	Overhead Line	38.3	230.0000				2.7			0.6			0.3			96.98
RHNF3	GR153675	5559245	8.32KV_1P_Y1/0_AL	Overhead Line	79.8	230.0000				91.1			19.6			8.5			96.95
RHNF3	GR153676	5559247	8.32KV_1P_Y1/0_AL	Overhead Line	78.9	230.0000				91.1			19.6			8.5			96.93
RHNF3	GR153677	5559249	8.32KV_1P_Y1/0_AL	Overhead Line	57.7	230.0000				91.0			19.6			8.5			96.91
RHNF3	GR153678	5559251	8.32KV_1P_Y1/0_AL	Overhead Line	70.9	230.0000				91.0			19.6			8.5			96.89

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
RHNF3	GR153679	5559252	8.32KV_1P_Y1/0_AL	Overhead Line	87.8	230.0000				91.0			19.6			8.5			96.86
RHNF3	GR153680	5559287	8.32KV_1P_Y1/0_AL	Overhead Line	83.6	230.0000				90.4			19.4			8.5			96.83
RHNF3	GR153681	5512453	8.32KV_1P_Y1/0_AL	Overhead Line	80.1	230.0000				87.7			18.9			8.2			96.81
RHNF3	GR153682	5559289	8.32KV_1P_Y1/0_AL	Overhead Line	78.9	230.0000				87.7			18.9			8.2			96.78
RHNF3	GR153691	5560059	8.32KV_1P_Y1/0_AL	Overhead Line	3.7	230.0000				5.5			1.2			0.5			97.10
RHNF3	GR153692	11284030	8.32KV_1P_Y1/0_AL	Overhead Line	49.9	230.0000				5.5			1.2			0.5			97.10
RHNF3	GR153695	5561104	8.32KV_1P_Y1/0_AL	Overhead Line	49.5	230.0000				1.6			0.3			0.2			97.42
RHNF3	GR153696	11280180	8.32KV_1P_Y1/0_AL	Overhead Line	24.0	230.0000				1.6			0.3			0.2			97.42
RHNF3	GR153697	5511379	8.32KV_1P_Y1/0_AL	Overhead Line	76.3	230.0000				1.6			0.3			0.2			97.42
RHNF3	GR153698	11280320	8.32KV_1P_Y1/0_AL	Overhead Line	54.9	230.0000				1.6			0.3			0.2			97.42
RHNF3	GR153699	5511381	8.32KV_1P_Y1/0_AL	Overhead Line	69.5	230.0000				1.6			0.3			0.2			97.42
RHNF3	GR153700	5511382	8.32KV_1P_Y1/0_AL	Overhead Line	60.4	230.0000				1.6			0.3			0.2			97.42
RHNF3	GR153701	5511383	8.32KV_1P_Y1/0_AL	Overhead Line	119.2	230.0000				1.6			0.3			0.2			97.42
RHNF3	GR153706	5558663	8.32KV_1P_Y1/0_AL	Overhead Line	75.4	230.0000			4.7			1.0			0.4			95.96	
RHNF3	GR153707	5558664	8.32KV_1P_Y1/0_AL	Overhead Line	64.7	230.0000			4.7			1.0			0.4			95.96	
RHNF3	GR153714	5561036	8.32KV_1P_Y1/0_AL	Overhead Line	2.4	230.0000			4.7			1.0			0.4			97.25	
RHNF3	GR153715	11251013	8.32KV_1P_Y1/0_AL	Overhead Line	18.4	230.0000			4.7			1.0			0.4			97.25	
RHNF3	GR153716	5558864	8.32KV_1P_Y1/0_AL	Overhead Line	41.8	230.0000			4.7			1.0			0.4			97.25	
RHNF3	GR153717	5559048	8.32KV_1P_Y1/0_AL	Overhead Line	47.9	230.0000			4.7			1.0			0.4			97.25	
RHNF3	GR153724	5558334	8.32KV_1P_Y1/0_AL	Overhead Line	22.5	230.0000			1.9			0.4			0.2			98.28	
RHNF3	GR153725	5558365	8.32KV_1P_Y1/0_AL	Overhead Line	42.6	230.0000			1.9			0.4			0.2			98.28	
RHNF3	GR153730	5558332	8.32KV_1P_Y1/0_AL	Overhead Line	4.1	230.0000		3.6			0.8			0.3			98.85		
RHNF3	GR153731	11296269	8.32KV_1P_Y1/0_AL	Overhead Line	16.5	230.0000		3.6			0.8			0.3			98.85		
RHNF3	GR153732	5558333	8.32KV_1P_Y1/0_AL	Overhead Line	68.1	230.0000		3.6			0.8			0.3			98.85		
RHNF3	GR153735	5557942	8.32KV_3P_Y3/0_AL	Overhead Line	3.0	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.96	99.95	99.97
RHNF3	GR152612	X35771-5512895	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			97.13	
RHNF3	GR152634	X12058-5524510	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			94.88		
RHNF3	GR152645	X33317-1685200	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		2.8			0.6			18.7			94.50	
RHNF3	GR152649	X12060-1685201	8.32KV_UNKNOWN_75_3P	Two-Winding Transformer	0.0		75.00	5.9	4.7	2.7	1.3	1.0	0.6	7.9	6.2	3.6	94.50	94.92	97.94
RHNF3	GR152656	X33316-1653244	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			97.63
RHNF3	GR152661	X33318-1685202	8.32KV_347V_225_3P	Two-Winding Transformer	0.0		225.00	17.8	14.1	8.2	3.9	3.1	1.7	7.9	6.2	3.6	94.29	94.75	97.91
RHNF3	GR152677	X32193-5524669	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			93.54	
RHNF3	GR152687	TP9499-1691700	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.2			18.7			93.48	
RHNF3	GR152692	TP12583-1653269	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.2			18.7			93.46	
RHNF3	GR152697	TP12582-1680846	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.2			18.7			93.44	
RHNF3	GR152702	TP12581-5510989	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.2			18.7			93.43	
RHNF3	GR152716	X11891-5513303	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			93.43	
RHNF3	GR152732	X35915-5524498	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			93.40	
RHNF3	GR152735	X11892-5510780	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			93.41	
RHNF3	GR152737	X11903-5510587	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			93.41	
RHNF3	GR152739	X11910-5524868	8.32KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00		0.9			0.2			18.7			93.45	
RHNF3	GR152741	X11912-5524847	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			93.47	
RHNF3	GR152743	X11913-5524494	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			93.47	
RHNF3	GR152753	X26454-11276270	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			92.74		
RHNF3	GR152762	TP14362-18986810	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			92.63		
RHNF3	GR152771	X11982-5524857	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			92.52		
RHNF3	GR152780	X33310-5512705	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.4			0.5			23.7			92.48		
RHNF3	GR152782	X33309-5510781	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.4			0.5			23.7			92.48		
RHNF3	GR152786	X11980-5510782	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.4			0.5			23.7			92.47		
RHNF3	GR152793	X33308-5524678	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.93
RHNF3	GR152804	X26375-5510783	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			92.38		
RHNF3	GR152806	X26574-14707934	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			92.38		
RHNF3	GR152818	X33303-5510784	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.4			0.5			23.7			92.37		
RHNF3	GR152839	UNKNOWN-17988504	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.43
RHNF3	GR152844	X33302-5524505	8.32KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	61.3	61.2	61.1	13.7	13.6	13.2	59.6	59.6	59.6	90.47	91.17	94.36
RHNF3	GR152846	X33321-5524538	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.48
RHNF3	GR152848	UNKNOWN-15497805	8.32KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	12.0	9.4	5.5	2.7	2.1	1.2	23.7	18.7	10.9	92.22	93.10	96.45
RHNF3	GR152860	X33304-5524183	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.41
RHNF3	GR152871	X35795-1674397	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.35
RHNF3	GR152880	X33307-5525034	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			8.2			1.8			10.9			96.34
RHNF3	GR152882	X60881-18108738	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.35
RHNF3	GR152904	X11534-5524473	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.21
RHNF3	GR152906	X11532-5524198	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			96.21
RHNF3	GR152908	X11531-18140639	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.21
RHNF3	GR152926	X33494-5524469	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.15
RHNF3	GR152934	X33489-5512906	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			96.13
RHNF3	GR152939	X33490-5512295	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			96.13
RHNF3	GR152950	X33488-1676064	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.12
RHNF3	GR152965	X11567-5510804	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.11
RHNF3	GR152967	X11561-5524490	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.11
RHNF3	GR152969	X11560-5512317	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.11
RHNF3	GR152971	X11551-5512512	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.13
RHNF3	GR152973	X11545-1686685	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			96.17
RHNF3	GR152979	X33495-5513506	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.17
RHNF3	GR152981	X11542-5511934	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.19
RHNF3	GR152983	X11541-5524867	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.19
RHNF3	GR152985	X11539-5513499	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.21
RHNF3	GR153017	X33480-1676058	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.50

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
RHNF3	GR153019	X50900-5513096	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.48
RHNF3	GR153021	X12110-1693001	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.45
RHNF3	GR153026	X33499-5526148	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.44
RHNF3	GR153028	X12112-5510609	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.42
RHNF3	GR153068	X42262-19057636	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.15
RHNF3	GR153070	X42493-12975767	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.15
RHNF3	GR153073	X33328-5524507	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.15
RHNF3	GR153083	X42436-11590498	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			96.15
RHNF3	GR153085	X11466-5513292	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.18
RHNF3	GR153087	X11464-5526319	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.18
RHNF3	GR153089	X11462-5513116	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			96.19
RHNF3	GR153100	X33330-5513276	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00			1.6			0.4			10.9			96.18
RHNF3	GR153108	X11491-5513491	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.17
RHNF3	GR153110	X11490-5524364	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			96.17
RHNF3	GR153112	X11488-1693793	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.17
RHNF3	GR153114	X11486-5513467	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.18
RHNF3	GR153116	X11482-5513466	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			96.18
RHNF3	GR153118	X11479-5510772	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.19
RHNF3	GR153120	X11499-5513493	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.27
RHNF3	GR153122	X11504-5513115	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.33
RHNF3	GR153126	X12115-1676061	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.36
RHNF3	GR153131	X34796-5525576	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.33
RHNF3	GR153133	X11513-1653497	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.32
RHNF3	GR153136	X11519-10001542	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			96.28
RHNF3	GR153138	X11522-1693172	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			96.25
RHNF3	GR153142	X33478-5513299	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.24
RHNF3	GR153145	X11524-1676027	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.24
RHNF3	GR153147	X11526-10001623	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.23
RHNF3	GR153150	X11528-5513480	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.22
RHNF3	GR153152	X11538-5524896	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.22
RHNF3	GR153154	X11974-1676060	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.24
RHNF3	GR153156	X11973-5524486	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			96.25
RHNF3	GR153158	X11972-5524860	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			96.26
RHNF3	GR153160	X11969-5524859	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.29
RHNF3	GR153162	X11965-12977731	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.33
RHNF3	GR153164	X11960-5524484	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			96.40
RHNF3	GR153166	X11951-5510579	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			92.33		
RHNF3	GR153168	X11948-11243602	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			92.35		
RHNF3	GR153174	X33306-5524481	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.78
RHNF3	GR153176	X11932-5524475	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			92.54		
RHNF3	GR153180	X11984-5524856	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			92.58		
RHNF3	GR153182	X11923-5526327	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			97.38
RHNF3	GR153205	TP5569-5525954	8.32KV_UNKNOWN_300_3P	Two-Winding Transformer	0.0		300.00	27.4	27.4	27.4	6.2	6.1	5.8	9.1	9.1	9.1	92.55	93.43	97.76
RHNF3	GR153215	TP5399-5525435	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			97.53
RHNF3	GR153220	TP5584-5525955	8.32KV_UNKNOWN_150_3P	Two-Winding Transformer	0.0		150.00	11.9	9.4	5.5	2.7	2.1	1.2	7.9	6.2	3.6	92.32	93.36	97.81
RHNF3	GR153249	GB007869-5512528	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			92.56	
RHNF3	GR153251	X60306-16477220	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			97.52
RHNF3	GR153258	GB003857-5524543	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	23.9			5.4			23.7			91.00		
RHNF3	GR153263	GB003858-5525242	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	23.9			5.4			23.7			90.98		
RHNF3	GR153268	TP6145-5525057	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			90.98		
RHNF3	GR153272	TP5499-5524544	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			10.9			2.3			10.9			97.52
RHNF3	GR153277	GB003855-5525064	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.2			18.7			92.57	
RHNF3	GR153280	X60314-16477237	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			92.59	
RHNF3	GR153302	X11817-5524032	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.1			18.7			92.33	
RHNF3	GR153304	X11819-1676050	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.1			18.7			92.34	
RHNF3	GR153309	TP10386-5524719	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			92.32	
RHNF3	GR153314	TP10387-5524899	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			92.29	
RHNF3	GR153319	TP10388-5524717	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.2			18.7			92.27	
RHNF3	GR153324	TP7746-1653326	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			92.26	
RHNF3	GR153329	X11824-5524720	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			92.38	
RHNF3	GR153331	X11826-5524907	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.9			0.4			18.7			92.42	
RHNF3	GR153336	TP10385-1653332	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		14.1			3.2			18.7			92.39	
RHNF3	GR153341	TP10384-1653328	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			92.36	
RHNF3	GR153347	TP7742-1653378	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.2			18.7			92.32	
RHNF3	GR153353	TP7745-1653327	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			92.31	
RHNF3	GR153356	X11831-5524529	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.1			18.7			92.52	
RHNF3	GR153365	GB003862-1687164	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			91.01		
RHNF3	GR153370	GB003863-5524522	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			91.00		
RHNF3	GR153378	TP5500-5524889	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			10.9			2.3			10.9			97.52
RHNF3	GR153384	GB003856-1692091	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.2			18.7			92.55	
RHNF3	GR153403	X11847-5526280	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			92.68	
RHNF3	GR153448	X36721-5525402	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			90.04		
RHNF3	GR153455	X36702-5525386	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.0			4.1			23.7			90.03		
RHNF3	GR153457	X36716-5525387	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			90.04		
RHNF3	GR153478	X46775-15659263	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.0			4.1			23.7			89.95		
RHNF3	GR153480	X36459-5525032	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.4			23.7			89.96		
RHNF3	GR153482	X36470-1676034	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			89.97		
RHNF3	GR153491	X36449-1676032	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			89.96		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
RHNF3	GR153504	X36460-5526100	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			89.96		
RHNF3	GR153506	X36445-5525940	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			89.96		
RHNF3	GR153508	X42643-13488988	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			89.97		
RHNF3	GR153514	X36469-1683458	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.4			23.7			89.98		
RHNF3	GR153516	X36713-5526289	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.4			23.7			90.00		
RHNF3	GR153526	X36706-5525205	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			92.96	
RHNF3	GR153531	TP3989-5524353	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.0			4.1			23.7			90.01		
RHNF3	GR153533	X36285-5525554	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		2.8			0.6			18.7			92.95	
RHNF3	GR153535	X36284-5525041	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			97.36
RHNF3	GR153537	X36280-5525222	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		2.8			0.6			18.7			92.92	
RHNF3	GR153539	X36276-5525558	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			92.91	
RHNF3	GR153541	X32149-5525200	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			92.89	
RHNF3	GR153544	X11998-1677697	8.32KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			4.1			0.9			10.9			97.40
RHNF3	GR153546	X34865-11429562	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			8.2			1.7			10.9			97.43
RHNF3	GR153550	X11841-5526492	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.1			18.7			92.65	
RHNF3	GR153552	X11840-5526507	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			92.64	
RHNF3	GR153554	X11837-5525424	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			97.51
RHNF3	GR153556	X11836-5525425	8.32KV_120V/208V_75_3P	Two-Winding Transformer	0.0		75.00	5.9	4.7	2.7	1.3	1.0	0.6	7.9	6.2	3.6	91.65	93.09	97.80
RHNF3	GR153558	X11850-5524888	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			97.53
RHNF3	GR153560	X60319-18075155	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			8.2			1.7			10.9			97.54
RHNF3	GR153564	X36688-5525409	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			97.53
RHNF3	GR153566	X11860-5525073	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			97.53
RHNF3	GR153572	X36687-5525951	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.4			0.5			23.7			91.78		
RHNF3	GR153574	X45764-5524902	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.4			0.5			23.7			91.86		
RHNF3	GR153580	TP12577-5525060	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.2			18.7			92.98	
RHNF3	GR153585	TP12578-5524894	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.2			18.7			92.95	
RHNF3	GR153590	TP12579-5525965	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.2			18.7			92.93	
RHNF3	GR153595	TP12580-5525600	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.2			18.7			92.90	
RHNF3	GR153600	X11873-5524661	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			93.12	
RHNF3	GR153602	X11880-5524884	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.9			0.4			18.7			93.55	
RHNF3	GR153604	X12011-1676028	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			93.80		
RHNF3	GR153606	X12018-1694630	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		14.1			3.1			18.7			95.04	
RHNF3	GR153638	X33311-5526322	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			97.17
RHNF3	GR153652	X33301-5524707	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.88
RHNF3	GR153661	TP14061-18178057	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			10.9			2.3			10.9			96.80
RHNF3	GR153673	X33493-5510591	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.66
RHNF3	GR153683	X12106-5513289	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.51
RHNF3	GR153685	X12105-5513094	8.32KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00			0.5			0.1			10.9			96.54
RHNF3	GR153687	X12098-5512524	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			96.71
RHNF3	GR153689	X12096-5512523	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			96.76
RHNF3	GR153693	X33484-5510590	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			96.78
RHNF3	GR153702	X33313-5524708	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00			1.6			0.4			10.9			97.10
RHNF3	GR153704	X12079-5510604	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00			1.6			0.4			10.9			97.24
RHNF3	GR153708	X33314-5524866	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			95.43	
RHNF3	GR153710	X12056-5524508	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			95.19		
RHNF3	GR153712	X12054-5524509	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.9			0.4			18.7			95.73	
RHNF3	GR153718	X35770-1676031	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			96.73	
RHNF3	GR153720	X12040-5512131	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.9			0.4			18.7			97.55	
RHNF3	GR153722	X12042-5510968	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			97.76	
RHNF3	GR153726	X35772-5510987	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.9			0.4			18.7			97.76	
RHNF3	GR153728	X12046-5510969	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.9			0.4			18.7			98.24	
RHNF3	GR153733	X35763-5510970	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00	3.6			0.8			23.7			98.18		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR25564	11352026	BUS27.6KV_3P_1200A_SECONDARY_	Cable	0.1	1000.0000		6214.8	6215.0	6213.6	390.0	390.0	389.9	39.0	39.0	39.0	100.00	100.00	100.00
FAL04	GR25565	11352029	BUS27.6KV_3P_1200A_SECONDARY_	Cable	0.1	1000.0000		6214.8	6215.0	6213.6	390.0	390.0	389.9	39.0	39.0	39.0	100.00	100.00	100.00
FAL04	GR25566	11233646	27.6KV_3P_750_AL_XLPE	Cable	1.2	455.0000		6214.8	6215.0	6213.6	390.0	390.0	389.9	85.7	85.7	85.7	100.00	100.00	100.00
FAL04	GR25567	13149803	27.6KV_3P_1000_AL_XLPE	Cable	85.2	505.0000		6214.8	6214.9	6213.6	390.0	390.0	389.9	77.2	77.2	77.2	99.96	99.96	99.96
FAL04	GR25637	13575533	27.6KV_3P_750_AL_XLPE	Cable	5.9	455.0000		6100.9	6102.2	6076.2	389.2	389.2	387.6	85.5	85.5	85.2	98.38	98.38	98.38
FAL04	GR25638	13575604	27.6KV_3P_1000_AL_XLPE	Cable	154.7	505.0000		6100.7	6102.1	6076.0	389.2	389.2	387.6	77.1	77.1	76.7	98.31	98.31	98.31
FAL04	GR25680	11510224	27.6KV_3P_1/0_AL_XLPE	Cable	147.4	180.0000		42.9	42.9	42.9	2.8	2.8	2.8	1.5	1.5	1.5	97.57	97.58	97.58
FAL04	GR25778	6544329	27.6KV_3P_1/0_AL_XLPE	Cable	108.4	180.0000		117.9	162.1	241.6	7.7	10.5	15.7	4.3	5.9	8.7	96.57	96.59	96.74
FAL04	GR25779	6543899	27.6KV_1P_1/0_AL_XLPE	Cable	28.6	180.0000			162.1			10.5			5.9			96.59	
FAL04	GR25784	6544573	27.6KV_1P_1/0_AL_XLPE	Cable	129.5	180.0000			144.1			9.4			5.2			96.58	
FAL04	GR25785	6546410	27.6KV_1P_1/0_AL_XLPE	Cable	12.8	180.0000				241.6			15.7			8.7			96.74
FAL04	GR25790	6546409	27.6KV_1P_1/0_AL_XLPE	Cable	101.3	180.0000				219.7			14.2			7.9			96.73
FAL04	GR25795	6545519	27.6KV_1P_1/0_AL_XLPE	Cable	63.3	180.0000				197.7			12.8			7.1			96.73
FAL04	GR25800	6545518	27.6KV_1P_1/0_AL_XLPE	Cable	63.8	180.0000				164.8			10.7			5.9			96.72
FAL04	GR25805	6545761	27.6KV_1P_1/0_AL_XLPE	Cable	55.1	180.0000				131.8			8.6			4.8			96.72
FAL04	GR25810	6545130	27.6KV_1P_1/0_AL_XLPE	Cable	112.4	180.0000				109.9			7.1			4.0			96.71
FAL04	GR25811	6548017	27.6KV_1P_1/0_AL_XLPE	Cable	87.1	180.0000		117.9			7.7			4.3			96.57		
FAL04	GR25817	11390787	27.6KV_3P_1/0_AL_XLPE	Cable	76.8	180.0000		373.6	144.0	164.7	24.3	9.4	10.7	13.5	5.2	5.9	96.54	96.58	96.75
FAL04	GR25818	11323304	27.6KV_1P_1/0_AL_XLPE	Cable	12.9	180.0000			144.0			9.4			5.2			96.58	
FAL04	GR25823	11390868	27.6KV_1P_1/0_AL_TRXLPE	Cable	121.0	180.0000			126.0			8.2			4.5			96.57	
FAL04	GR25828	11390885	27.6KV_1P_1/0_AL_TRXLPE	Cable	164.5	180.0000			99.0			6.4			3.6			96.56	
FAL04	GR25833	11390910	27.6KV_1P_1/0_AL_TRXLPE	Cable	97.3	180.0000			81.0			5.3			2.9			96.56	
FAL04	GR25838	11390918	27.6KV_1P_1/0_AL_XLPE	Cable	142.3	180.0000			54.0			3.5			2.0			96.56	
FAL04	GR25843	11390975	27.6KV_1P_1/0_AL_TRXLPE	Cable	69.4	180.0000			27.0			1.8			1.0			96.56	
FAL04	GR25847	11323358	27.6KV_2P_1/0_AL_XLPE	Cable	3.5	180.0000		373.6		164.7	24.3		10.7	13.5		5.9	96.54		96.75
FAL04	GR25848	11323399	27.6KV_1P_1/0_AL_XLPE	Cable	2.5	180.0000		373.6			24.3			13.5			96.54		
FAL04	GR25853	11447966	27.6KV_1P_1/0_AL_TRXLPE	Cable	148.5	180.0000		308.0			20.0			11.1			96.52		
FAL04	GR25856	11447980	27.6KV_1P_1/0_AL_TRXLPE	Cable	35.4	180.0000		242.4			15.8			8.8			96.52		
FAL04	GR25859	11447984	27.6KV_1P_1/0_AL_TRXLPE	Cable	98.4	180.0000		176.8			11.5			6.4			96.51		
FAL04	GR25864	11448010	27.6KV_1P_1/0_AL_TRXLPE	Cable	118.3	180.0000		137.5			8.9			5.0			96.50		
FAL04	GR25867	11451564	27.6KV_1P_1/0_AL_TRXLPE	Cable	77.0	180.0000		98.2			6.4			3.5			96.50		
FAL04	GR25870	11451363	27.6KV_1P_1/0_AL_TRXLPE	Cable	135.8	180.0000		58.9			3.8			2.1			96.50		
FAL04	GR25873	11447917	27.6KV_1P_1/0_AL_TRXLPE	Cable	64.1	180.0000		19.6			1.3			0.7			96.49		
FAL04	GR25884	11507384	27.6KV_1P_1/0_AL_XLPE	Cable	203.4	180.0000				164.7			10.7			5.9			96.73
FAL04	GR25889	11390747	27.6KV_1P_1/0_AL_XLPE	Cable	63.7	180.0000				120.7			7.8			4.4			96.73
FAL04	GR25894	6543900	27.6KV_3P_2/0_AL_XLPE	Cable	29.0	210.0000		165.0	144.1	316.5	10.7	9.4	20.5	5.1	4.5	9.8	96.53	96.56	96.75
FAL04	GR25895	13475691	27.6KV_3P_2/0_AL_XLPE	Cable	84.9	210.0000		165.0	144.1	316.5	10.7	9.4	20.5	5.1	4.5	9.8	96.53	96.56	96.74
FAL04	GR25896	6517701	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		165.0			10.7			5.1			96.53		
FAL04	GR25901	6546431	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		145.3			9.4			4.5			96.53		
FAL04	GR25902	6547553	27.6KV_2P_2/0_AL_XLPE	Cable	16.0	210.0000			144.1	316.5		9.4	20.5		4.5	9.8		96.56	96.74
FAL04	GR25918	6549178	27.6KV_3P_1/0_AL_TRXLPE	Cable	157.0	180.0000		49.0	46.8	52.1	3.2	3.0	3.4	1.8	1.7	1.9	96.47	96.51	96.80
FAL04	GR25930	18085802	27.6KV_3P_1/0_AL_TRXLPE	Cable	70.0	180.0000		206.3	108.1	153.7	13.4	7.0	10.0	7.5	3.9	5.5	96.44	96.48	96.82
FAL04	GR25931	18085830	27.6KV_1P_1/0_AL_TRXLPE	Cable	159.1	180.0000				153.7			10.0			5.5			96.81
FAL04	GR25936	6546039	27.6KV_1P_1/0_AL_TRXLPE	Cable	177.9	180.0000				131.7			8.5			4.7			96.80
FAL04	GR25941	6548679	27.6KV_1P_1/0_AL_TRXLPE	Cable	90.8	180.0000				109.8			7.1			4.0			96.80
FAL04	GR25946	6545493	27.6KV_1P_1/0_AL_TRXLPE	Cable	79.1	180.0000				87.8			5.7			3.2			96.80
FAL04	GR25951	6545494	27.6KV_1P_1/0_AL_TRXLPE	Cable	129.8	180.0000				65.9			4.3			2.4			96.79
FAL04	GR25956	6543465	27.6KV_1P_1/0_AL_TRXLPE	Cable	85.6	180.0000				43.9			2.8			1.6			96.79
FAL04	GR25961	6543466	27.6KV_1P_1/0_AL_TRXLPE	Cable	153.0	180.0000				21.9			1.4			0.8			96.79
FAL04	GR25966	18085836	27.6KV_2P_1/0_AL_TRXLPE	Cable	62.3	180.0000		206.3	108.1		13.4	7.0		7.5	3.9		96.43	96.48	
FAL04	GR25967	18085839	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.5	180.0000		206.3			13.4			7.5			96.43		
FAL04	GR25972	6547415	27.6KV_1P_1/0_AL_TRXLPE	Cable	168.3	180.0000		186.6			12.1			6.7			96.42		
FAL04	GR25977	6547416	27.6KV_1P_1/0_AL_TRXLPE	Cable	140.7	180.0000		167.0			10.9			6.0			96.41		
FAL04	GR25982	6547417	27.6KV_1P_1/0_AL_TRXLPE	Cable	270.3	180.0000		127.7			8.3			4.6			96.40		
FAL04	GR25987	6545339	27.6KV_1P_1/0_AL_TRXLPE	Cable	219.5	180.0000		108.0			7.0			3.9			96.39		
FAL04	GR25992	6545341	27.6KV_1P_1/0_AL_TRXLPE	Cable	100.0	180.0000		68.7			4.5			2.5			96.39		
FAL04	GR25997	6545342	27.6KV_1P_1/0_AL_TRXLPE	Cable	215.3	180.0000		49.1			3.2			1.8			96.38		
FAL04	GR26002	6546197	27.6KV_1P_1/0_AL_TRXLPE	Cable	77.3	180.0000		19.6			1.3			0.7			96.38		
FAL04	GR26003	6546200	27.6KV_1P_1/0_AL_TRXLPE	Cable	138.3	180.0000		19.6			1.3			0.7			96.38		
FAL04	GR26004	6545941	27.6KV_1P_1/0_AL_TRXLPE	Cable	683.8	180.0000		19.6			1.3			0.7			96.37		
FAL04	GR26009	6547123	27.6KV_1P_1/0_AL_XLPE	Cable	106.9	180.0000		0.0			0.0			0.0			96.37		
FAL04	GR26010	18085852	27.6KV_1P_1/0_AL_TRXLPE	Cable	181.4	180.0000			108.0			7.0			3.9			96.47	
FAL04	GR26015	6543866	27.6KV_1P_1/0_AL_TRXLPE	Cable	100.7	180.0000			90.0			5.9			3.3			96.47	
FAL04	GR26016	6544711	27.6KV_1P_1/0_AL_TRXLPE	Cable	102.4	180.0000			90.0			5.9			3.3			96.47	
FAL04	GR26017	13148491	27.6KV_1P_1/0_AL_TRXLPE	Cable	117.1	180.0000			90.0			5.9			3.3			96.46	
FAL04	GR26018	6546195	27.6KV_1P_1/0_AL_TRXLPE	Cable	14.0	180.0000			90.0			5.9			3.3			96.46	
FAL04	GR26019	6544846	27.6KV_1P_1/0_AL_TRXLPE	Cable	77.4	180.0000			90.0			5.9			3.3			96.46	
FAL04	GR26024	13148434	27.6KV_1P_1/0_AL_TRXLPE	Cable	128.9	180.0000			72.0			4.7			2.6			96.46	
FAL04	GR26025	6546007	27.6KV_1P_1/0_AL_TRXLPE	Cable	98.4	180.0000			72.0			4.7			2.6			96.45	
FAL04	GR26030	6544990	27.6KV_1P_1/0_AL_XLPE	Cable	391.4	180.0000			54.0			3.5			2.0			96.44	
FAL04	GR26035	6544935	27.6KV_1P_1/0_AL_XLPE	Cable	106.8	180.0000			36.0			2.3			1.3			96.44	
FAL04	GR26040	6548860	27.6KV_1P_1/0_AL_XLPE	Cable	112.9	180.0000			18.0			1.2			0.7			96.44	
FAL04	GR26049	18088717	27.6KV_1P_1/0_AL_TRXLPE	Cable	93.2	180.0000			72.0			4.7			2.6			96.48	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR26054	18088730	27.6KV_1P_1/0_AL_TRXLPE	Cable	59.4	180.0000			36.0			2.3			1.3			96.47	
FAL04	GR26059	18088736	27.6KV_1P_1/0_AL_TRXLPE	Cable	86.8	180.0000			0.0			0.0			0.0			96.47	
FAL04	GR26063	14636685	27.6KV_1P_1/0_AL_TRXLPE	Cable	65.9	180.0000			321.3			20.9			11.6			96.46	
FAL04	GR26068	14636693	27.6KV_1P_1/0_AL_TRXLPE	Cable	105.1	180.0000			285.3			18.6			10.3			96.45	
FAL04	GR26073	14662043	27.6KV_1P_1/0_AL_TRXLPE	Cable	108.3	180.0000			249.2			16.2			9.0			96.44	
FAL04	GR26078	14662052	27.6KV_1P_1/0_AL_TRXLPE	Cable	55.0	180.0000			189.1			12.3			6.8			96.44	
FAL04	GR26083	14662256	27.6KV_1P_1/0_AL_TRXLPE	Cable	98.8	180.0000			162.1			10.5			5.9			96.43	
FAL04	GR26088	14662330	27.6KV_1P_1/0_AL_TRXLPE	Cable	106.5	180.0000			135.0			8.8			4.9			96.42	
FAL04	GR26093	14662398	27.6KV_1P_1/0_AL_TRXLPE	Cable	89.6	180.0000			108.0			7.0			3.9			96.42	
FAL04	GR26098	14662472	27.6KV_1P_1/0_AL_TRXLPE	Cable	76.4	180.0000			81.0			5.3			2.9			96.42	
FAL04	GR26103	15478628	27.6KV_1P_1/0_AL_TRXLPE	Cable	81.0	180.0000			54.0			3.5			2.0			96.42	
FAL04	GR26108	15478589	27.6KV_1P_1/0_AL_TRXLPE	Cable	176.0	180.0000			27.0			1.8			1.0			96.41	
FAL04	GR26113	15478597	27.6KV_1P_1/0_AL_TRXLPE	Cable	84.8	180.0000			0.0			0.0			0.0			96.41	
FAL04	GR26120	18088747	27.6KV_1P_1/0_AL_TRXLPE	Cable	64.4	180.0000			72.0			4.7			2.6			96.47	
FAL04	GR26125	18088738	27.6KV_1P_1/0_AL_TRXLPE	Cable	58.5	180.0000			36.0			2.3			1.3			96.47	
FAL04	GR26132	14662884	27.6KV_1P_1/0_AL_TRXLPE	Cable	101.3	180.0000			360.4			23.4			13.0			96.45	
FAL04	GR26137	14678123	27.6KV_1P_1/0_AL_TRXLPE	Cable	147.6	180.0000			333.3			21.7			12.0			96.43	
FAL04	GR26142	14678142	27.6KV_1P_1/0_AL_TRXLPE	Cable	93.5	180.0000			315.2			20.5			11.4			96.42	
FAL04	GR26147	14678159	27.6KV_1P_1/0_AL_TRXLPE	Cable	95.6	180.0000			297.2			19.3			10.7			96.41	
FAL04	GR26152	14678166	27.6KV_1P_1/0_AL_TRXLPE	Cable	64.0	180.0000			270.2			17.6			9.8			96.40	
FAL04	GR26157	14678184	27.6KV_1P_1/0_AL_TRXLPE	Cable	99.5	180.0000			243.1			15.8			8.8			96.39	
FAL04	GR26162	14678256	27.6KV_1P_1/0_AL_TRXLPE	Cable	221.7	180.0000			216.1			14.1			7.8			96.37	
FAL04	GR26167	14662871	27.6KV_1P_1/0_AL_TRXLPE	Cable	80.4	180.0000			189.1			12.3			6.8			96.37	
FAL04	GR26172	14662838	27.6KV_1P_1/0_AL_TRXLPE	Cable	70.2	180.0000			162.0			10.6			5.9			96.36	
FAL04	GR26177	14662831	27.6KV_1P_1/0_AL_TRXLPE	Cable	106.6	180.0000			135.0			8.8			4.9			96.35	
FAL04	GR26182	14662768	27.6KV_1P_1/0_AL_TRXLPE	Cable	87.7	180.0000			108.0			7.0			3.9			96.35	
FAL04	GR26187	15576251	27.6KV_1P_1/0_AL_TRXLPE	Cable	99.3	180.0000			81.0			5.3			2.9			96.35	
FAL04	GR26192	15478606	27.6KV_1P_1/0_AL_TRXLPE	Cable	48.7	180.0000			54.0			3.5			2.0			96.35	
FAL04	GR26197	15478602	27.6KV_1P_1/0_AL_TRXLPE	Cable	89.5	180.0000			27.0			1.8			1.0			96.35	
FAL04	GR26212	13475677	27.6KV_3P_1/0_AL_XLPE	Cable	40.0	180.0000		176.8	54.0	175.7	11.5	3.5	11.4	6.4	2.0	6.3	96.52	96.55	96.75
FAL04	GR26213	13475674	27.6KV_3P_1/0_AL_XLPE	Cable	234.0	180.0000		176.8	54.0	175.7	11.5	3.5	11.4	6.4	2.0	6.3	96.51	96.55	96.74
FAL04	GR26214	6545794	27.6KV_2P_1/0_AL_XLPE	Cable	14.2	180.0000			54.0	175.7		3.5	11.4		2.0	6.3		96.55	96.74
FAL04	GR26215	6547176	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000		176.8			11.5			6.4			96.51		
FAL04	GR26220	6548224	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000		157.2			10.2			5.7			96.51		
FAL04	GR26251	6547767	27.6KV_3P_2/0_AL_XLPE	Cable	75.2	210.0000		165.1	165.1	165.1	10.7	10.7	10.7	5.1	5.1	5.1	96.66	96.63	96.65
FAL04	GR26273	11509946	27.6KV_3P_1/0_AL_XLPE	Cable	35.6	180.0000		39.4	36.1	44.0	2.6	2.3	2.9	1.4	1.3	1.6	96.56	96.50	96.49
FAL04	GR26333	6546944	27.6KV_3P_2/0_AL_XLPE	Cable	27.2	210.0000		137.5	117.0	131.7	8.9	7.6	8.6	4.3	3.6	4.1	96.46	96.29	96.22
FAL04	GR26334	6519901	27.6KV_1P_2/0_AL_XLPE	Cable	3.7	210.0000		137.5			8.9			4.3			96.46		
FAL04	GR26339	6517567	27.6KV_1P_2/0_AL_XLPE	Cable	23.3	210.0000		117.8			7.7			3.7			96.45		
FAL04	GR26344	6520552	27.6KV_1P_2/0_AL_XLPE	Cable	119.9	210.0000		98.2			6.4			3.0			96.45		
FAL04	GR26349	6520553	27.6KV_1P_2/0_AL_XLPE	Cable	57.6	210.0000		68.7			4.5			2.1			96.45		
FAL04	GR26354	6549202	27.6KV_1P_2/0_AL_XLPE	Cable	142.4	210.0000		39.3			2.6			1.2			96.45		
FAL04	GR26359	6545559	27.6KV_1P_2/0_AL_XLPE	Cable	96.0	210.0000		19.6			1.3			0.6			96.45		
FAL04	GR26360	6546967	27.6KV_2P_2/0_AL_XLPE	Cable	94.5	210.0000			117.0	131.7		7.6	8.6		3.6	4.1		96.29	96.22
FAL04	GR26361	6517697	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			117.0			7.6			3.6			96.29	
FAL04	GR26366	6517696	27.6KV_1P_1/0_AL_XLPE	Cable	6.4	180.0000			90.0			5.9			3.3			96.28	
FAL04	GR26367	6517698	27.6KV_1P_2/0_AL_XLPE	Cable	20.7	210.0000				131.7			8.6			4.1			96.22
FAL04	GR26382	14636280	27.6KV_3P_1/0_AL_XLPE	Cable	5.8	180.0000		23.9	23.9	23.9	1.6	1.6	1.6	0.9	0.9	0.9	96.46	96.29	96.22
FAL04	GR26383	14636290	27.6KV_3P_1/0_AL_XLPE	Cable	23.7	180.0000		23.9	23.9	23.9	1.6	1.6	1.6	0.9	0.9	0.9	96.46	96.29	96.22
FAL04	GR26394	6545473	27.6KV_3P_1/0_AL_XLPE	Cable	15.7	180.0000		29.5	27.1	33.0	1.9	1.8	2.2	1.1	1.0	1.2	96.46	96.29	96.22
FAL04	GR26399	6544256	27.6KV_3P_2/0_AL_XLPE	Cable	116.5	210.0000		255.5	162.1	351.7	16.6	10.6	22.9	7.9	5.0	10.9	96.45	96.29	96.21
FAL04	GR26400	6544806	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		255.5			16.6			7.9			96.45		
FAL04	GR26405	6519429	27.6KV_1P_2/0_AL_XLPE	Cable	3.4	210.0000		235.8			15.3			7.3			96.45		
FAL04	GR26406	6547006	27.6KV_2P_2/0_AL_XLPE	Cable	13.9	210.0000			162.1	351.6		10.6	22.9		5.0	10.9		96.29	96.21
FAL04	GR26409	13538465	27.6KV_3P_2/0_AL_XLPE	Cable	41.5	210.0000		176.8	144.0	197.6	11.5	9.4	12.9	5.5	4.5	6.1	96.46	96.30	96.24
FAL04	GR26410	6517947	27.6KV_2P_2/0_AL_XLPE	Cable	14.0	210.0000		176.8		197.6	11.5		12.9	5.5		6.1	96.46		96.24
FAL04	GR26411	6517948	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			144.0			9.4			5.2			96.30	
FAL04	GR26416	6517946	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			126.0			8.2			3.9			96.30	
FAL04	GR26424	9005654	27.6KV_2P_1/0_AL_XLPE	Cable	17.7	180.0000		324.2	288.2		21.1	18.8		11.7	10.4		96.46	96.32	
FAL04	GR26425	9005655	27.6KV_1P_1/0_AL_XLPE	Cable	61.2	180.0000		324.2			21.1			11.7			96.45		
FAL04	GR26430	9005656	27.6KV_1P_1/0_AL_XLPE	Cable	114.4	180.0000		284.9			18.5			10.3			96.44		
FAL04	GR26435	9005644	27.6KV_1P_1/0_AL_XLPE	Cable	11.4	180.0000		245.5			16.0			8.9			96.43		
FAL04	GR26440	9005753	27.6KV_1P_1/0_AL_XLPE	Cable	71.1	180.0000		206.3			13.4			7.5			96.43		
FAL04	GR26445	9005764	27.6KV_1P_1/0_AL_XLPE	Cable	46.2	180.0000		186.6			12.1			6.7			96.42		
FAL04	GR26450	9005630	27.6KV_1P_1/0_AL_XLPE	Cable	66.9	180.0000		167.0			10.9			6.0			96.42		
FAL04	GR26455	9006205	27.6KV_1P_1/0_AL_XLPE	Cable	10.8	180.0000		147.3			9.6			5.3			96.42		
FAL04	GR26456	9006206	27.6KV_1P_1/0_AL_XLPE	Cable	55.6	180.0000			288.2			18.8			10.4			96.31	
FAL04	GR26461	9005693	27.6KV_1P_1/0_AL_XLPE	Cable	95.7	180.0000			261.2			17.0			9.5			96.30	
FAL04	GR26466	9005694	27.6KV_1P_1/0_AL_XLPE	Cable	45.7	180.0000			234.1			15.3			8.5			96.30	
FAL04	GR26485	9005645	27.6KV_1P_1/0_AL_XLPE	Cable	139.2	180.0000				241.6			15.7			8.7			96.26
FAL04	GR26490	11363423	27.6KV_1P_1/0_AL_TRXLPE	Cable	66.3	180.0000				197.6			12.9			7.2			96.26
FAL04	GR26495	11363643	27.6KV_1P_1/0_AL_TRXLPE	Cable	104.2	180.0000				175.7			11.5			6.4			96.25
FAL04	GR26500	11363649	27.6KV_1P_1/0_AL_TRXLPE	Cable	131.3	180.0000				153.7			10.0			5.6			96.24

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR26505	11363669	27.6KV_1P_1/0_AL_TRXLPE	Cable	94.1	180.0000				131.7			8.6			4.8			96.24
FAL04	GR26510	11363672	27.6KV_1P_1/0_AL_TRXLPE	Cable	53.0	180.0000				109.8			7.2			4.0			96.23
FAL04	GR26515	11363720	27.6KV_1P_1/0_AL_TRXLPE	Cable	132.1	180.0000				87.8			5.7			3.2			96.23
FAL04	GR26520	11363975	27.6KV_1P_1/0_AL_TRXLPE	Cable	72.5	180.0000				65.9			4.3			2.4			96.23
FAL04	GR26525	11363985	27.6KV_1P_1/0_AL_TRXLPE	Cable	89.3	180.0000				43.9			2.9			1.6			96.23
FAL04	GR26530	11363994	27.6KV_1P_1/0_AL_TRXLPE	Cable	101.3	180.0000				22.0			1.4			0.8			96.22
FAL04	GR26545	6549087	27.6KV_3P_1/0_AL_TRXLPE	Cable	645.8	180.0000		104.9	262.5	416.0	6.8	17.1	27.1	3.8	9.5	15.1	96.47	96.26	96.19
FAL04	GR26546	6543651	27.6KV_3P_1/0_AL_TRXLPE	Cable	128.6	180.0000		104.9	262.3	415.6	6.8	17.1	27.1	3.8	9.5	15.1	96.48	96.24	96.18
FAL04	GR26547	6544270	27.6KV_2P_1/0_AL_TRXLPE	Cable	16.0	180.0000			262.3	415.5		17.1	27.1		9.5	15.1		96.24	96.17
FAL04	GR26548	6544847	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.5	180.0000		104.9			6.8			3.8			96.47		
FAL04	GR26553	6545125	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.5	180.0000		85.7			5.6			3.1			96.47		
FAL04	GR26562	14698002	27.6KV_3P_1/0_AL_XLPE	Cable	173.6	180.0000		104.6	104.6	104.6	6.8	6.8	6.8	3.8	3.8	3.8	96.46	96.31	96.28
FAL04	GR26567	6545733	27.6KV_3P_1/0_AL_XLPE	Cable	152.2	180.0000		225.9	243.2	263.6	14.7	15.8	17.2	8.2	8.8	9.5	96.46	96.30	96.27
FAL04	GR26568	6545156	27.6KV_2P_1/0_AL_XLPE	Cable	14.0	180.0000			243.1	263.5		15.8	17.2		8.8	9.5		96.30	96.27
FAL04	GR26569	6545976	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000		225.9			14.7			8.2			96.46		
FAL04	GR26574	6544066	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000		196.4			12.8			7.1			96.46		
FAL04	GR26580	6543953	27.6KV_3P_1/0_AL_XLPE	Cable	62.6	180.0000		269.2	260.5	281.3	17.5	17.0	18.3	9.7	9.4	10.2	96.48	96.36	96.33
FAL04	GR26585	6544170	27.6KV_3P_1/0_AL_XLPE	Cable	37.1	180.0000		314.2	225.2	296.5	20.4	14.6	19.3	11.3	8.1	10.7	96.55	96.48	96.47
FAL04	GR26586	6546032	27.6KV_1P_2/0_AL_XLPE	Cable	58.3	210.0000				296.5			19.3			9.2			96.46
FAL04	GR26591	6543626	27.6KV_1P_2/0_AL_XLPE	Cable	178.4	210.0000				274.5			17.9			8.5			96.45
FAL04	GR26596	6543627	27.6KV_1P_2/0_AL_XLPE	Cable	174.7	210.0000				241.6			15.7			7.5			96.43
FAL04	GR26601	6543629	27.6KV_1P_2/0_AL_XLPE	Cable	92.3	210.0000				208.6			13.6			6.5			96.43
FAL04	GR26606	6519320	27.6KV_1P_2/0_AL_XLPE	Cable	122.1	210.0000				175.6			11.4			5.4			96.42
FAL04	GR26611	6544537	27.6KV_1P_2/0_AL_XLPE	Cable	189.3	210.0000				142.7			9.3			4.4			96.41
FAL04	GR26616	6544539	27.6KV_1P_2/0_AL_XLPE	Cable	195.8	210.0000				109.8			7.1			3.4			96.40
FAL04	GR26621	6545853	27.6KV_1P_2/0_AL_XLPE	Cable	113.3	210.0000				87.8			5.7			2.7			96.40
FAL04	GR26626	6519292	27.6KV_1P_2/0_AL_XLPE	Cable	130.4	210.0000				65.9			4.3			2.0			96.39
FAL04	GR26631	6519291	27.6KV_1P_2/0_AL_XLPE	Cable	127.7	210.0000				43.9			2.9			1.4			96.39
FAL04	GR26636	6519110	27.6KV_1P_2/0_AL_XLPE	Cable	159.3	210.0000				22.0			1.4			0.7			96.39
FAL04	GR26641	6547689	27.6KV_2P_1/0_AL_XLPE	Cable	18.4	180.0000		314.2	225.1		20.4	14.6		11.3	8.1		96.54	96.48	
FAL04	GR26642	6518247	27.6KV_1P_1/0_AL_XLPE	Cable	127.0	180.0000		314.2			20.4			11.3			96.53		
FAL04	GR26647	6549383	27.6KV_1P_1/0_AL_XLPE	Cable	104.8	180.0000		294.5			19.1			10.6			96.51		
FAL04	GR26652	6549551	27.6KV_1P_1/0_AL_XLPE	Cable	17.1	180.0000		274.8			17.9			9.9			96.51		
FAL04	GR26653	6518510	27.6KV_1P_1/0_AL_XLPE	Cable	3.7	180.0000			225.1			14.6			8.1			96.48	
FAL04	GR26657	6543567	27.6KV_3P_1/0_AL_XLPE	Cable	52.7	180.0000		255.5	180.1	76.8	16.6	11.7	5.0	9.2	6.5	2.8	96.56	96.51	96.50
FAL04	GR26658	6543791	27.6KV_1P_1/0_AL_XLPE	Cable	66.4	180.0000			180.1			11.7			6.5			96.50	
FAL04	GR26663	6546703	27.6KV_1P_1/0_AL_XLPE	Cable	42.7	180.0000			162.0			10.5			5.9			96.50	
FAL04	GR26668	6546704	27.6KV_1P_1/0_AL_XLPE	Cable	63.1	180.0000			144.0			9.4			5.2			96.49	
FAL04	GR26673	6548456	27.6KV_1P_1/0_AL_XLPE	Cable	46.5	180.0000			126.0			8.2			4.6			96.49	
FAL04	GR26678	6548457	27.6KV_1P_1/0_AL_XLPE	Cable	112.5	180.0000			108.0			7.0			3.9			96.49	
FAL04	GR26683	6548458	27.6KV_1P_1/0_AL_XLPE	Cable	102.9	180.0000			90.0			5.9			3.3			96.48	
FAL04	GR26688	6548459	27.6KV_1P_1/0_AL_XLPE	Cable	51.2	180.0000			63.0			4.1			2.3			96.48	
FAL04	GR26693	6549509	27.6KV_1P_1/0_AL_XLPE	Cable	162.7	180.0000			36.0			2.3			1.3			96.48	
FAL04	GR26698	6548875	27.6KV_1P_1/0_AL_XLPE	Cable	86.0	180.0000			18.0			1.2			0.7			96.48	
FAL04	GR26699	6548929	27.6KV_2P_1/0_AL_XLPE	Cable	49.6	180.0000		255.4		76.8	16.6		5.0	9.2		2.8	96.55		96.50
FAL04	GR26700	6543797	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000				76.8			5.0			2.8			96.50
FAL04	GR26705	6543798	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000				32.9			2.1			1.2			96.50
FAL04	GR26706	6544581	27.6KV_1P_1/0_AL_XLPE	Cable	14.0	180.0000		255.4			16.6			9.2			96.55		
FAL04	GR26727	11514523	27.6KV_2P_1/0_AL_TRXLPE	Cable	4.9	180.0000		98.2		109.8	6.4		7.1	3.5		4.0	96.56		96.59
FAL04	GR26728	11514583	27.6KV_2P_1/0_AL_TRXLPE	Cable	130.1	180.0000		98.2		109.8	6.4		7.1	3.5		4.0	96.56		96.59
FAL04	GR26729	11514643	27.6KV_1P_1/0_AL_TRXLPE	Cable	145.2	180.0000				109.8			7.1			4.0			96.58
FAL04	GR26734	11593207	27.6KV_1P_1/0_AL_XLPE	Cable	171.5	180.0000				87.8			5.7			3.2			96.58
FAL04	GR26735	11516788	27.6KV_1P_1/0_AL_XLPE	Cable	23.3	180.0000				87.8			5.7			3.2			96.57
FAL04	GR26740	11516984	27.6KV_1P_1/0_AL_XLPE	Cable	201.9	180.0000				65.9			4.3			2.4			96.57
FAL04	GR26745	11538916	27.6KV_1P_1/0_AL_XLPE	Cable	165.3	180.0000				43.9			2.9			1.6			96.57
FAL04	GR26748	11516978	27.6KV_1P_1/0_AL_XLPE	Cable	303.6	180.0000				22.0			1.4			0.8			96.56
FAL04	GR26753	11516977	27.6KV_1P_1/0_AL_XLPE	Cable	52.6	180.0000				0.0			0.0			0.0			96.56
FAL04	GR26756	11514663	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.3	180.0000		98.2			6.4			3.5			96.56		
FAL04	GR26761	11516727	27.6KV_1P_1/0_AL_XLPE	Cable	148.0	180.0000		78.6			5.1			2.8			96.56		
FAL04	GR26762	11516731	27.6KV_1P_1/0_AL_XLPE	Cable	87.9	180.0000		78.6			5.1			2.8			96.55		
FAL04	GR26767	11516741	27.6KV_1P_1/0_AL_XLPE	Cable	74.6	180.0000		58.9			3.8			2.1			96.55		
FAL04	GR26768	11516791	27.6KV_1P_1/0_AL_XLPE	Cable	96.2	180.0000		58.9			3.8			2.1			96.55		
FAL04	GR26773	11427853	27.6KV_1P_1/0_AL_XLPE	Cable	85.5	180.0000		39.3			2.6			1.4			96.55		
FAL04	GR26778	11427851	27.6KV_1P_1/0_AL_XLPE	Cable	101.4	180.0000		19.6			1.3			0.7			96.55		
FAL04	GR26783	11427848	27.6KV_1P_1/0_AL_XLPE	Cable	30.7	180.0000		0.0			0.0			0.0			96.55		
FAL04	GR26785	11561317	27.6KV_1P_1/0_AL_TRXLPE	Cable	117.6	180.0000			126.0			8.2			4.6			96.52	
FAL04	GR26790	11561318	27.6KV_1P_1/0_AL_TRXLPE	Cable	175.2	180.0000			108.0			7.0			3.9			96.51	
FAL04	GR26795	11562249	27.6KV_1P_1/0_AL_TRXLPE	Cable	11.0	180.0000			90.0			5.9			3.3			96.51	
FAL04	GR26800	11562251	27.6KV_1P_1/0_AL_TRXLPE	Cable	122.7	180.0000			72.0			4.7			2.6			96.51	
FAL04	GR26805	11562252	27.6KV_1P_1/0_AL_TRXLPE	Cable	231.3	180.0000			54.0			3.5			2.0			96.50	
FAL04	GR26810	11562261	27.6KV_1P_1/0_AL_TRXLPE	Cable	126.8	180.0000			36.0			2.3			1.3			96.50	
FAL04	GR26815	11562264	27.6KV_1P_1/0_AL_TRXLPE	Cable	130.9	180.0000			18.0			1.2			0.7			96.50	
FAL04	GR26820	11562267	27.6KV_1P_1/0_AL_TRXLPE	Cable	172.3	180.0000			0.0			0.0			0.0			96.50	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR26824	11593724	27.6KV_3P_750_AL_TRXLPE	Cable	72.5	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.57	96.53	96.60
FAL04	GR26825	13139066	27.6KV_3P_750_AL_TRXLPE	Cable	224.6	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.57	96.53	96.60
FAL04	GR26826	11593887	27.6KV_3P_750_AL_TRXLPE	Cable	61.6	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.57	96.53	96.60
FAL04	GR26827	11593964	27.6KV_3P_750_AL_TRXLPE	Cable	6.1	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.57	96.53	96.60
FAL04	GR26828	15527181	27.6KV_3P_750_AL_TRXLPE	Cable	0.0	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.57	96.53	96.60
FAL04	GR26830	11567338	27.6KV_3P_1/0_AL_TRXLPE	Cable	6.5	180.0000		39.4	36.1	44.0	2.6	2.3	2.9	1.4	1.3	1.6	96.57	96.53	96.60
FAL04	GR26834	12971562	27.6KV_3P_1/0_AL_TRXLPE	Cable	5.5	180.0000		242.5	537.7	32.9	15.8	35.0	2.1	8.8	19.4	1.2	96.57	96.53	96.60
FAL04	GR26835	12971515	27.6KV_3P_1/0_AL_TRXLPE	Cable	10.7	180.0000		242.5	537.7	32.9	15.8	35.0	2.1	8.8	19.4	1.2	96.57	96.53	96.60
FAL04	GR26836	12971467	27.6KV_1P_1/0_AL_TRXLPE	Cable	39.8	180.0000				32.9			2.1			1.2			96.60
FAL04	GR26837	12971458	27.6KV_1P_1/0_AL_TRXLPE	Cable	53.6	180.0000				32.9			2.1			1.2			96.60
FAL04	GR26841	16388905	27.6KV_2P_1/0_AL_TRXLPE	Cable	87.2	180.0000		242.5	537.6		15.8	35.0		8.8	19.4		96.56	96.51	
FAL04	GR26842	16388927	27.6KV_1P_1/0_AL_TRXLPE	Cable	5.8	180.0000			537.5			35.0			19.4			96.51	
FAL04	GR26847	16388939	27.6KV_1P_1/0_AL_TRXLPE	Cable	10.0	180.0000			477.6			31.1			17.3			96.51	
FAL04	GR26852	16388945	27.6KV_1P_1/0_AL_TRXLPE	Cable	6.2	180.0000			450.7			29.3			16.3			96.50	
FAL04	GR26853	16388936	27.6KV_1P_1/0_AL_TRXLPE	Cable	23.3	180.0000		242.5			15.8			8.8			96.56		
FAL04	GR26855	11620367	27.6KV_3P_1/0_AL_XLPE	Cable	152.9	180.0000		170.4	156.2	190.5	11.1	10.2	12.4	6.2	5.6	6.9	96.57	96.53	96.58
FAL04	GR26856	11620381	27.6KV_3P_1/0_AL_XLPE	Cable	58.6	180.0000		170.4	156.2	190.5	11.1	10.2	12.4	6.2	5.6	6.9	96.57	96.53	96.58
FAL04	GR26857	11620476	27.6KV_3P_1/0_AL_XLPE	Cable	45.7	180.0000		170.4	156.2	190.5	11.1	10.2	12.4	6.2	5.6	6.9	96.56	96.52	96.58
FAL04	GR26858	11620478	27.6KV_3P_1/0_AL_XLPE	Cable	34.9	180.0000		170.4	156.2	190.5	11.1	10.2	12.4	6.2	5.6	6.9	96.56	96.52	96.58
FAL04	GR26863	11620451	27.6KV_3P_1/0_AL_XLPE	Cable	31.9	180.0000		104.9	96.1	117.2	6.8	6.2	7.6	3.8	3.5	4.2	96.56	96.52	96.58
FAL04	GR26868	11620482	27.6KV_3P_1/0_AL_XLPE	Cable	46.1	180.0000		39.4	36.1	44.0	2.6	2.3	2.9	1.4	1.3	1.6	96.56	96.52	96.57
FAL04	GR26869	11620544	27.6KV_3P_1/0_AL_XLPE	Cable	70.6	180.0000		39.4	36.1	44.0	2.6	2.3	2.9	1.4	1.3	1.6	96.56	96.52	96.57
FAL04	GR26874	11621658	27.6KV_3P_1/0_AL_XLPE	Cable	100.7	180.0000		327.6	300.3	366.2	21.3	19.5	23.8	11.8	10.8	13.2	96.58	96.54	96.58
FAL04	GR26879	13162929	27.6KV_3P_1/0_AL_XLPE	Cable	106.0	180.0000		262.0	240.2	292.9	17.0	15.6	19.0	9.5	8.7	10.6	96.58	96.53	96.57
FAL04	GR26880	16403397	27.6KV_3P_1/0_AL_XLPE	Cable	49.5	180.0000		262.0	240.2	292.9	17.0	15.6	19.0	9.5	8.7	10.6	96.57	96.53	96.56
FAL04	GR26885	16403394	27.6KV_3P_1/0_AL_XLPE	Cable	53.3	180.0000		65.5	60.1	73.2	4.3	3.9	4.8	2.4	2.2	2.6	96.57	96.53	96.56
FAL04	GR26886	11621231	27.6KV_3P_1/0_AL_XLPE	Cable	95.0	180.0000		65.5	60.1	73.2	4.3	3.9	4.8	2.4	2.2	2.6	96.57	96.53	96.56
FAL04	GR26891	11621214	27.6KV_3P_1/0_AL_XLPE	Cable	33.7	180.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.57	96.53	96.56
FAL04	GR26892	11621200	27.6KV_3P_1/0_AL_XLPE	Cable	48.5	180.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.57	96.53	96.56
FAL04	GR26896	13548101	27.6KV_1P_1/0_AL_XLPE	Cable	153.6	180.0000				241.6			15.7			8.7			96.58
FAL04	GR26897	13551681	27.6KV_1P_1/0_AL_TRXLPE	Cable	321.2	180.0000				241.6			15.7			8.7			96.54
FAL04	GR26902	13242443	27.6KV_1P_1/0_AL_TRXLPE	Cable	164.4	180.0000				219.6			14.3			7.9			96.53
FAL04	GR26907	13242326	27.6KV_1P_1/0_AL_TRXLPE	Cable	71.1	180.0000				197.6			12.8			7.1			96.52
FAL04	GR26912	13242185	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.2	180.0000				175.6			11.4			6.3			96.52
FAL04	GR26917	13240761	27.6KV_1P_1/0_AL_TRXLPE	Cable	80.7	180.0000				142.7			9.3			5.2			96.51
FAL04	GR26922	13240741	27.6KV_1P_1/0_AL_TRXLPE	Cable	92.6	180.0000				109.8			7.1			4.0			96.51
FAL04	GR26927	13240641	27.6KV_1P_1/0_AL_XLPE	Cable	142.2	180.0000				87.8			5.7			3.2			96.51
FAL04	GR26932	13240625	27.6KV_1P_1/0_AL_XLPE	Cable	55.7	180.0000				65.9			4.3			2.4			96.50
FAL04	GR26937	13240602	27.6KV_1P_1/0_AL_XLPE	Cable	59.6	180.0000				43.9			2.9			1.6			96.50
FAL04	GR26942	13240541	27.6KV_1P_1/0_AL_XLPE	Cable	90.3	180.0000				22.0			1.4			0.8			96.50
FAL04	GR26947	13240521	27.6KV_1P_1/0_AL_XLPE	Cable	164.6	180.0000				0.0			0.0			0.0			96.50
FAL04	GR26951	6548893	27.6KV_3P_1/0_AL_XLPE	Cable	3.1	180.0000		169.5	106.1	118.0	11.0	6.9	7.7	6.1	3.8	4.3	96.74	96.73	96.75
FAL04	GR26952	6548892	27.6KV_3P_1/0_AL_XLPE	Cable	11.0	180.0000		169.5	106.1	118.0	11.0	6.9	7.7	6.1	3.8	4.3	96.74	96.73	96.75
FAL04	GR26957	6548891	27.6KV_3P_1/0_AL_XLPE	Cable	15.5	180.0000		122.8	60.8	68.7	8.0	3.9	4.5	4.4	2.2	2.5	96.74	96.73	96.74
FAL04	GR26958	6549693	27.6KV_3P_1/0_AL_XLPE	Cable	132.7	180.0000		122.8	60.8	68.7	8.0	3.9	4.5	4.4	2.2	2.5	96.73	96.72	96.74
FAL04	GR26963	6548896	27.6KV_3P_1/0_AL_XLPE	Cable	64.7	180.0000		103.2	43.1	47.0	6.7	2.8	3.0	3.7	1.6	1.7	96.73	96.72	96.74
FAL04	GR26964	6548110	27.6KV_3P_2/0_AL_XLPE	Cable	16.1	210.0000		103.2	43.1	47.0	6.7	2.8	3.0	3.2	1.3	1.5	96.73	96.72	96.74
FAL04	GR26969	6548897	27.6KV_3P_2/0_AL_XLPE	Cable	13.4	210.0000		58.9	0.0	0.0	3.8	0.0	0.0	1.8	0.0	0.0	96.73	96.72	96.74
FAL04	GR26970	6548899	27.6KV_3P_2/0_AL_XLPE	Cable	182.9	210.0000		58.9	0.0	0.0	3.8	0.0	0.0	1.8	0.0	0.0	96.72	96.72	96.74
FAL04	GR26971	6548885	27.6KV_3P_2/0_AL_XLPE	Cable	212.5	210.0000		58.9	0.0	0.0	3.8	0.0	0.0	1.8	0.0	0.0	96.72	96.73	96.74
FAL04	GR26972	6548886	27.6KV_1P_2/0_AL_XLPE	Cable	2.6	210.0000		58.9			3.8			1.8			96.72		
FAL04	GR26975	6548887	27.6KV_1P_2/0_AL_XLPE	Cable	2.7	210.0000		39.3			2.5			1.2			96.72		
FAL04	GR26978	6548916	27.6KV_2P_2/0_AL_XLPE	Cable	2.0	210.0000			0.0	0.0		0.0	0.0		0.0	0.0		96.73	96.74
FAL04	GR27025	14717537	27.6KV_3P_1/0_AL_XLPE	Cable	12.4	180.0000		65.5	60.1	73.2	4.2	3.9	4.8	2.4	2.2	2.6	96.75	96.75	96.75
FAL04	GR27034	11609553	27.6KV_3P_1/0_AL_XLPE	Cable	198.8	180.0000		243.7	90.0	175.6	15.8	5.8	11.4	8.8	3.2	6.3	96.73	96.75	96.73
FAL04	GR27035	6543848	27.6KV_1P_1/0_AL_XLPE	Cable	9.5	180.0000			90.0			5.8			3.2			96.75	
FAL04	GR27036	6544623	27.6KV_1P_1/0_AL_XLPE	Cable	82.7	180.0000		243.6			15.8			8.8			96.72		
FAL04	GR27041	6544622	27.6KV_1P_1/0_AL_XLPE	Cable	48.0	180.0000		224.0			14.5			8.1			96.72		
FAL04	GR27046	6544621	27.6KV_1P_1/0_AL_XLPE	Cable	57.8	180.0000		204.3			13.3			7.4			96.72		
FAL04	GR27051	6544620	27.6KV_1P_1/0_AL_XLPE	Cable	68.9	180.0000		184.7			12.0			6.7			96.71		
FAL04	GR27056	6544619	27.6KV_1P_1/0_AL_XLPE	Cable	228.8	180.0000		165.0			10.7			5.9			96.70		
FAL04	GR27061	6544618	27.6KV_1P_1/0_AL_XLPE	Cable	99.7	180.0000		145.3			9.4			5.2			96.69		
FAL04	GR27066	6544617	27.6KV_1P_1/0_AL_XLPE	Cable	112.9	180.0000		125.7			8.2			4.5			96.68		
FAL04	GR27071	6544704	27.6KV_1P_1/0_AL_XLPE	Cable	105.5	180.0000		106.1			6.9			3.8			96.68		
FAL04	GR27076	6544616	27.6KV_1P_1/0_AL_XLPE	Cable	132.4	180.0000		86.4			5.6			3.1			96.67		
FAL04	GR27081	6544615	27.6KV_1P_1/0_AL_XLPE	Cable	65.6	180.0000		78.6			5.1			2.8			96.67		
FAL04	GR27086	6544614	27.6KV_1P_1/0_AL_XLPE	Cable	81.2	180.0000		58.9			3.8			2.1			96.67		
FAL04	GR27091	6544613	27.6KV_1P_1/0_AL_XLPE	Cable	1.3	180.0000		39.3			2.5			1.4			96.67		
FAL04	GR27096	6546139	27.6KV_1P_1/0_AL_XLPE	Cable	2.2	180.0000		0.0			0.0			0.0			96.67		
FAL04	GR27097	6544624	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000				175.6			11.4			6.3			96.73
FAL04	GR27102	6544283	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000				153.7			10.0			5.5			96.73
FAL04	GR27104	11607111	27.6KV_3P_1/0_AL_XLPE	Cable	54.8	180.0000		102.9	96.8	111.6	6.7	6.3	7.2	3.7	3.5	4.0	96.75	96.75	96.74
FAL04	GR27109	14718708	27.6KV_3P_1/0_AL_TRXLPE	Cable	6.7	180.0000		29.5	27.1	33.0	1.9	1.8	2.1	1.1	1.0	1.2	96.75	96.75	96.75

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR27110	14718700	27.6KV_3P_1/0_AL_TRXLPE	Cable	45.1	180.0000		29.5	27.1	33.0	1.9	1.8	2.1	1.1	1.0	1.2	96.75	96.75	96.75
FAL04	GR27111	14717997	27.6KV_3P_1/0_AL_TRXLPE	Cable	158.0	180.0000		29.5	27.1	33.0	1.9	1.8	2.1	1.1	1.0	1.2	96.75	96.75	96.75
FAL04	GR27116	13261255	27.6KV_3P_1/0_AL_XLPE	Cable	185.4	180.0000		216.3	200.7	238.2	14.0	13.0	15.4	7.8	7.2	8.6	96.74	96.74	96.74
FAL04	GR27121	6543862	27.6KV_3P_1/0_AL_XLPE	Cable	117.6	180.0000		84.4	84.4	84.4	5.5	5.5	5.5	3.0	3.0	3.0	96.76	96.75	96.76
FAL04	GR27126	11519506	27.6KV_2P_1/0_AL_TRXLPE	Cable	84.9	180.0000			339.6	296.4		22.0	19.2		12.2	10.6		97.07	97.10
FAL04	GR27127	11519484	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.0	180.0000				296.4			19.2			10.6			97.10
FAL04	GR27128	11519485	27.6KV_1P_1/0_AL_TRXLPE	Cable	13.3	180.0000			339.6			22.0			12.2			97.07	
FAL04	GR27133	11519483	27.6KV_1P_1/0_AL_TRXLPE	Cable	13.3	180.0000			312.6			20.2			11.2			97.06	
FAL04	GR27135	11521190	27.6KV_1P_1/0_AL_TRXLPE	Cable	141.9	180.0000		331.1			21.4			11.9			97.21		
FAL04	GR27140	11521186	27.6KV_1P_1/0_AL_TRXLPE	Cable	80.8	180.0000		265.5			17.1			9.5			97.21		
FAL04	GR27145	11521181	27.6KV_1P_1/0_AL_TRXLPE	Cable	65.9	180.0000		199.9			12.9			7.2			97.20		
FAL04	GR27150	11521177	27.6KV_1P_1/0_AL_TRXLPE	Cable	55.5	180.0000		134.3			8.7			4.8			97.20		
FAL04	GR27155	11520387	27.6KV_1P_1/0_AL_TRXLPE	Cable	154.3	180.0000		68.7			4.4			2.5			97.19		
FAL04	GR27156	16456090	27.6KV_1P_1/0_AL_TRXLPE	Cable	176.3	180.0000		68.7			4.4			2.5			97.19		
FAL04	GR27161	16456087	27.6KV_1P_1/0_AL_TRXLPE	Cable	105.6	180.0000		39.3			2.5			1.4			97.19		
FAL04	GR27166	18208782	27.6KV_1P_1/0_AL_TRXLPE	Cable	143.0	180.0000		0.0			0.0			0.0			97.19		
FAL04	GR27168	11575381	27.6KV_3P_1/0_AL_TRXLPE	Cable	51.7	180.0000		19.6	18.0	21.9	1.3	1.2	1.4	0.7	0.6	0.8	97.35	97.36	97.36
FAL04	GR27169	11575421	27.6KV_1P_1/0_AL_TRXLPE	Cable	40.9	180.0000		19.6			1.3			0.7			97.35		
FAL04	GR27173	11575437	27.6KV_2P_1/0_AL_TRXLPE	Cable	83.3	180.0000			18.0	21.9		1.2	1.4		0.6	0.8		97.36	97.36
FAL04	GR27174	11575477	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.5	180.0000				21.9			1.4			0.8			97.36
FAL04	GR27178	11609337	27.6KV_1P_1/0_AL_TRXLPE	Cable	79.5	180.0000			18.0			1.2			0.6			97.36	
FAL04	GR27875	11519486	27.6KV_2P_1/0_AL_TRXLPE	Cable	31.7	180.0000			312.6	296.4		20.2	19.2		11.2	10.6		97.06	97.09
FAL04	GR27876	11520285	27.6KV_1P_1/0_AL_TRXLPE	Cable	10.2	180.0000			312.6			20.2			11.2			97.06	
FAL04	GR27877	11520303	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.0	180.0000				296.4			19.2			10.6			97.09
FAL04	GR27882	11520326	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.0	180.0000				263.5			17.0			9.5			97.09
FAL04	GR28082	11520370	27.6KV_2P_1/0_AL_TRXLPE	Cable	57.0	180.0000			312.6	263.5		20.2	17.0		11.2	9.5		97.05	97.09
FAL04	GR28083	16456259	27.6KV_1P_1/0_AL_TRXLPE	Cable	49.1	180.0000				263.4			17.0			9.5			97.08
FAL04	GR28088	16456133	27.6KV_1P_1/0_AL_TRXLPE	Cable	116.3	180.0000				219.5			14.2			7.9			97.07
FAL04	GR28093	16506029	27.6KV_1P_1/0_AL_TRXLPE	Cable	174.9	180.0000				175.6			11.4			6.3			97.06
FAL04	GR28098	16456110	27.6KV_1P_1/0_AL_TRXLPE	Cable	28.4	180.0000				131.7			8.5			4.7			97.06
FAL04	GR28103	16456107	27.6KV_1P_1/0_AL_TRXLPE	Cable	133.1	180.0000				87.8			5.7			3.2			97.06
FAL04	GR28108	16456101	27.6KV_1P_1/0_AL_TRXLPE	Cable	12.4	180.0000				43.9			2.8			1.6			97.06
FAL04	GR28113	16456262	27.6KV_1P_1/0_AL_TRXLPE	Cable	27.6	180.0000			312.6			20.2			11.2			97.05	
FAL04	GR28114	16456268	27.6KV_1P_1/0_AL_TRXLPE	Cable	58.5	180.0000			312.5			20.2			11.2			97.04	
FAL04	GR28119	16456263	27.6KV_1P_1/0_AL_TRXLPE	Cable	143.4	180.0000			252.4			16.3			9.1			97.03	
FAL04	GR28124	16456151	27.6KV_1P_1/0_AL_TRXLPE	Cable	112.7	180.0000			192.3			12.4			6.9			97.02	
FAL04	GR28129	16456162	27.6KV_1P_1/0_AL_TRXLPE	Cable	12.3	180.0000			132.1			8.5			4.7			97.02	
FAL04	GR28134	16456172	27.6KV_1P_1/0_AL_TRXLPE	Cable	90.9	180.0000			96.1			6.2			3.5			97.01	
FAL04	GR28139	16456182	27.6KV_1P_1/0_AL_TRXLPE	Cable	25.2	180.0000			60.1			3.9			2.2			97.01	
FAL04	GR27837	6546350	27.6KV_2P_1/0_AL_XLPE	Cable	54.6	180.0000			90.0	153.7		5.8	10.0		3.2	5.5		96.75	96.73
FAL04	GR27838	6543847	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000				153.7			10.0			5.5			96.73
FAL04	GR27843	6545215	27.6KV_1P_1/0_AL_XLPE	Cable	95.2	180.0000				131.7			8.5			4.7			96.73
FAL04	GR27848	6544625	27.6KV_1P_1/0_AL_XLPE	Cable	102.2	180.0000				109.8			7.1			4.0			96.72
FAL04	GR27849	6544626	27.6KV_1P_1/0_AL_XLPE	Cable	120.7	180.0000			90.0			5.8			3.2			96.75	
FAL04	GR27854	6544627	27.6KV_1P_1/0_AL_XLPE	Cable	84.3	180.0000			72.0			4.7			2.6			96.74	
FAL04	GR27859	6544628	27.6KV_1P_1/0_AL_XLPE	Cable	170.0	180.0000			54.0			3.5			1.9			96.74	
FAL04	GR27864	6544629	27.6KV_1P_1/0_AL_XLPE	Cable	58.7	180.0000			36.0			2.3			1.3			96.74	
FAL04	GR27869	6544630	27.6KV_1P_1/0_AL_XLPE	Cable	1.4	180.0000			18.0			1.2			0.6			96.74	
FAL04	GR27874	6544631	27.6KV_1P_1/0_AL_XLPE	Cable	1.9	180.0000			0.0			0.0			0.0			96.74	
FAL04	GR28064	6545123	27.6KV_2P_1/0_AL_XLPE	Cable	46.1	180.0000			0.0	109.8		0.0	7.1		0.0	4.0		96.74	96.72
FAL04	GR28065	6544632	27.6KV_1P_1/0_AL_XLPE	Cable	76.3	180.0000				109.8			7.1			4.0			96.72
FAL04	GR28070	9005618	27.6KV_1P_1/0_AL_XLPE	Cable	218.8	180.0000				87.8			5.7			3.2			96.71
FAL04	GR28075	9005617	27.6KV_1P_1/0_AL_XLPE	Cable	1.4	180.0000				43.9			2.8			1.6			96.71
FAL04	GR28080	9005616	27.6KV_1P_1/0_AL_XLPE	Cable	113.8	180.0000				0.0			0.0			0.0			96.71
FAL04	GR28081	6544634	27.6KV_1P_1/0_AL_XLPE	Cable	1.3	180.0000			0.0			0.0			0.0			96.74	
FAL04	GR28372	6545469	27.6KV_2P_1/0_AL_XLPE	Cable	65.7	180.0000			0.0	0.0		0.0	0.0		0.0	0.0		96.74	96.71
FAL04	GR28500	6545470	27.6KV_3P_1/0_AL_XLPE	Cable	75.1	180.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.67	96.74	96.71
FAL04	GR28501	11266402	27.6KV_1P_1/0_AL_XLPE	Cable	167.7	180.0000				0.0			0.0			0.0			96.71
FAL04	GR28502	11271335	27.6KV_1P_1/0_AL_XLPE	Cable	98.6	180.0000		0.0			0.0			0.0			96.67		
FAL04	GR28503	6548519	27.6KV_1P_1/0_AL_XLPE	Cable	99.5	180.0000		0.0			0.0			0.0			96.67		
FAL04	GR28504	9005626	27.6KV_1P_1/0_AL_XLPE	Cable	2.0	180.0000			0.0			0.0			0.0			96.74	
FAL04	GR27824	6548888	27.6KV_3P_2/0_AL_XLPE	Cable	22.8	210.0000		39.3	0.0	0.0	2.5	0.0	0.0	1.2	0.0	0.0	96.72	96.73	96.74
FAL04	GR27825	11581295	27.6KV_1P_1/0_AL_TRXLPE	Cable	107.1	180.0000		39.3			2.5			1.4			96.72		
FAL04	GR27830	11622605	27.6KV_1P_1/0_AL_XLPE	Cable	129.1	180.0000		19.6			1.3			0.7			96.72		
FAL04	GR27835	11622576	27.6KV_1P_1/0_AL_XLPE	Cable	58.8	180.0000		0.0			0.0			0.0			96.72		
FAL04	GR27836	11582152	27.6KV_2P_2/0_AL_XLPE	Cable	1.4	210.0000			0.0	0.0		0.0	0.0		0.0	0.0		96.73	96.74
FAL04	GR28063	11582151	27.6KV_3P_2/0_AL_XLPE	Cable	4.8	210.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.72	96.73	96.74
FAL04	GR27726	16388952	27.6KV_2P_1/0_AL_TRXLPE	Cable	79.7	180.0000		242.5	450.7		15.8	29.3		8.8	16.3		96.55	96.49	
FAL04	GR27727	16388981	27.6KV_1P_1/0_AL_TRXLPE	Cable	14.3	180.0000			450.6			29.3			16.3			96.49	
FAL04	GR27732	13146293	27.6KV_1P_1/0_AL_XLPE	Cable	134.6	180.0000			288.5			18.8			10.4			96.47	
FAL04	GR27737	13146265	27.6KV_1P_1/0_AL_XLPE	Cable	99.4	180.0000			228.3			14.9			8.3			96.46	
FAL04	GR27740	13146211	27.6KV_1P_1/0_AL_XLPE	Cable	129.3	180.0000			168.2			10.9			6.1			96.46	
FAL04	GR27745	13146194	27.6KV_1P_1/0_AL_XLPE	Cable	77.2	180.0000			150.2			9.8			5.4			96.45	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR27750	13146045	27.6KV_1P_1/0_AL_XLPE	Cable	86.4	180.0000			132.2			8.6			4.8			96.45	
FAL04	GR27755	13146041	27.6KV_1P_1/0_AL_XLPE	Cable	102.8	180.0000			114.1			7.4			4.1			96.44	
FAL04	GR27760	13145928	27.6KV_1P_1/0_AL_XLPE	Cable	87.3	180.0000			96.1			6.3			3.5			96.44	
FAL04	GR27765	13145866	27.6KV_1P_1/0_AL_XLPE	Cable	141.0	180.0000			78.1			5.1			2.8			96.43	
FAL04	GR27770	13147232	27.6KV_1P_1/0_AL_XLPE	Cable	76.1	180.0000			60.1			3.9			2.2			96.43	
FAL04	GR27771	13153417	27.6KV_1P_1/0_AL_XLPE	Cable	111.2	180.0000			60.1			3.9			2.2			96.43	
FAL04	GR27777	16388994	27.6KV_1P_1/0_AL_TRXLPE	Cable	31.0	180.0000		242.4			15.8			8.8			96.55		
FAL04	GR27778	16389003	27.6KV_1P_1/0_AL_TRXLPE	Cable	63.9	180.0000		242.4			15.8			8.8			96.54		
FAL04	GR27779	16389010	27.6KV_1P_1/0_AL_TRXLPE	Cable	57.9	180.0000		242.4			15.8			8.8			96.54		
FAL04	GR27780	13147563	27.6KV_1P_1/0_AL_XLPE	Cable	165.4	180.0000		242.4			15.8			8.8			96.52		
FAL04	GR27785	11636512	27.6KV_1P_1/0_AL_TRXLPE	Cable	20.5	180.0000		176.8			11.5			6.4			96.52		
FAL04	GR27790	11636515	27.6KV_1P_1/0_AL_TRXLPE	Cable	151.5	180.0000		137.5			8.9			5.0			96.51		
FAL04	GR27795	11636618	27.6KV_1P_1/0_AL_TRXLPE	Cable	180.2	180.0000		117.8			7.7			4.3			96.50		
FAL04	GR27800	11636615	27.6KV_1P_1/0_AL_TRXLPE	Cable	65.5	180.0000		98.2			6.4			3.5			96.50		
FAL04	GR27805	11636610	27.6KV_1P_1/0_AL_TRXLPE	Cable	49.3	180.0000		78.6			5.1			2.8			96.50		
FAL04	GR27810	11636579	27.6KV_1P_1/0_AL_TRXLPE	Cable	207.3	180.0000		58.9			3.8			2.1			96.49		
FAL04	GR27815	11636557	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.4	180.0000		39.3			2.6			1.4			96.49		
FAL04	GR27820	11636536	27.6KV_1P_1/0_AL_TRXLPE	Cable	110.5	180.0000		19.6			1.3			0.7			96.49		
FAL04	GR27703	6544582	27.6KV_2P_1/0_AL_XLPE	Cable	44.1	180.0000		255.4		32.9	16.6		2.1	9.2		1.2	96.55		96.50
FAL04	GR27704	6546008	27.6KV_1P_1/0_AL_XLPE	Cable	60.7	180.0000		255.4			16.6			9.2			96.54		
FAL04	GR27709	6547500	27.6KV_1P_1/0_AL_XLPE	Cable	75.6	180.0000		225.9			14.7			8.2			96.53		
FAL04	GR27714	6547501	27.6KV_1P_1/0_AL_XLPE	Cable	75.7	180.0000		196.5			12.8			7.1			96.53		
FAL04	GR27719	6547502	27.6KV_1P_1/0_AL_XLPE	Cable	102.1	180.0000		176.8			11.5			6.4			96.52		
FAL04	GR27720	6547608	27.6KV_1P_1/0_AL_XLPE	Cable	26.4	180.0000				32.9			2.1			1.2			96.50
FAL04	GR27725	6543796	27.6KV_1P_1/0_AL_XLPE	Cable	27.5	180.0000				0.0			0.0			0.0			96.50
FAL04	GR28055	6547149	27.6KV_2P_1/0_AL_XLPE	Cable	58.3	180.0000		176.8	18.0		11.5	1.2		6.4	0.7		96.52	96.48	
FAL04	GR28056	6547972	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000		176.8			11.5			6.4			96.52		
FAL04	GR28061	6547973	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000		157.2			10.2			5.7			96.52		
FAL04	GR28062	6547975	27.6KV_1P_1/0_AL_XLPE	Cable	14.0	180.0000			18.0			1.2			0.7			96.48	
FAL04	GR27695	6544905	27.6KV_2P_1/0_AL_XLPE	Cable	55.2	180.0000		274.8	225.1		17.9	14.6		9.9	8.1		96.51	96.48	
FAL04	GR27696	6543625	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000		274.8			17.9			9.9			96.51		
FAL04	GR27701	6545961	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000		78.6			5.1			2.8			96.51		
FAL04	GR27702	6544086	27.6KV_1P_1/0_AL_XLPE	Cable	14.0	180.0000			225.1			14.6			8.1			96.48	
FAL04	GR27646	6544067	27.6KV_3P_1/0_AL_XLPE	Cable	6.7	180.0000		196.4	243.1	263.5	12.8	15.8	17.2	7.1	8.8	9.5	96.46	96.30	96.27
FAL04	GR27647	6545498	27.6KV_1P_1/0_AL_XLPE	Cable	110.4	180.0000		196.4			12.8			7.1			96.45		
FAL04	GR27652	6572803	27.6KV_1P_1/0_AL_XLPE	Cable	127.5	180.0000		157.1			10.2			5.7			96.44		
FAL04	GR27657	6549653	27.6KV_1P_1/0_AL_XLPE	Cable	156.3	180.0000		137.5			8.9			5.0			96.43		
FAL04	GR27662	6549657	27.6KV_1P_2/0_AL_XLPE	Cable	164.7	210.0000		117.8			7.7			3.7			96.43		
FAL04	GR27667	6546054	27.6KV_1P_2/0_AL_XLPE	Cable	82.9	210.0000		98.2			6.4			3.0			96.42		
FAL04	GR27672	6546053	27.6KV_1P_2/0_AL_XLPE	Cable	70.0	210.0000		78.6			5.1			2.4			96.42		
FAL04	GR27677	6549209	27.6KV_1P_2/0_AL_XLPE	Cable	69.0	210.0000		49.1			3.2			1.5			96.42		
FAL04	GR27682	6544058	27.6KV_1P_2/0_AL_XLPE	Cable	130.1	210.0000		19.6			1.3			0.6			96.42		
FAL04	GR27687	6545977	27.6KV_2P_1/0_AL_XLPE	Cable	39.6	180.0000			243.1	263.5		15.8	17.2		8.8	9.5		96.30	96.27
FAL04	GR27688	6545978	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			243.1			15.8			8.8			96.29	
FAL04	GR27693	6544068	27.6KV_1P_1/0_AL_XLPE	Cable	3.6	180.0000			216.1			14.1			7.8			96.29	
FAL04	GR27694	6545979	27.6KV_1P_1/0_AL_XLPE	Cable	14.0	180.0000				263.5			17.2			9.5			96.27
FAL04	GR27526	6546154	27.6KV_3P_1/0_AL_TRXLPE	Cable	34.5	180.0000		85.7	262.3	415.5	5.6	17.1	27.1	3.1	9.5	15.1	96.48	96.24	96.17
FAL04	GR27527	6544955	27.6KV_1P_1/0_AL_TRXLPE	Cable	112.5	180.0000			262.3			17.1			9.5			96.23	
FAL04	GR27532	6545299	27.6KV_1P_1/0_AL_TRXLPE	Cable	164.0	180.0000			244.3			15.9			8.9			96.21	
FAL04	GR27537	6545300	27.6KV_1P_1/0_AL_TRXLPE	Cable	74.8	180.0000			226.3			14.8			8.2			96.20	
FAL04	GR27542	6545301	27.6KV_1P_1/0_AL_TRXLPE	Cable	104.1	180.0000			208.4			13.6			7.6			96.20	
FAL04	GR27547	6545302	27.6KV_1P_1/0_AL_TRXLPE	Cable	59.9	180.0000			190.5			12.4			6.9			96.19	
FAL04	GR27552	6545596	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.1	180.0000			172.6			11.3			6.3			96.19	
FAL04	GR27557	6545852	27.6KV_1P_1/0_AL_TRXLPE	Cable	136.0	180.0000			154.8			10.1			5.6			96.18	
FAL04	GR27562	6543729	27.6KV_1P_1/0_AL_TRXLPE	Cable	43.6	180.0000			119.2			7.8			4.3			96.18	
FAL04	GR27567	6546663	27.6KV_1P_1/0_AL_TRXLPE	Cable	63.7	180.0000			101.6			6.6			3.7			96.17	
FAL04	GR27572	6547290	27.6KV_1P_1/0_AL_TRXLPE	Cable	78.2	180.0000			84.1			5.5			3.1			96.17	
FAL04	GR27577	6549382	27.6KV_1P_1/0_AL_TRXLPE	Cable	84.4	180.0000			67.0			4.4			2.4			96.17	
FAL04	GR27578	6547517	27.6KV_1P_1/0_AL_TRXLPE	Cable	107.1	180.0000				415.5			27.1			15.1			96.15
FAL04	GR27583	6546481	27.6KV_1P_1/0_AL_XLPE	Cable	109.5	180.0000				393.5			25.7			14.3			96.13
FAL04	GR27588	6545876	27.6KV_1P_1/0_AL_XLPE	Cable	39.2	180.0000				349.6			22.8			12.7			96.13
FAL04	GR27593	6545875	27.6KV_1P_1/0_AL_XLPE	Cable	73.0	180.0000				327.6			21.4			11.9			96.12
FAL04	GR27598	6545874	27.6KV_1P_1/0_AL_TRXLPE	Cable	78.4	180.0000				305.7			20.0			11.1			96.11
FAL04	GR27603	6545873	27.6KV_1P_1/0_AL_TRXLPE	Cable	148.3	180.0000				283.8			18.5			10.3			96.09
FAL04	GR27608	6545872	27.6KV_1P_1/0_AL_TRXLPE	Cable	114.0	180.0000				261.8			17.1			9.5			96.08
FAL04	GR27613	6549040	27.6KV_1P_1/0_AL_TRXLPE	Cable	73.5	180.0000				218.1			14.2			7.9			96.07
FAL04	GR27618	6549039	27.6KV_1P_1/0_AL_TRXLPE	Cable	36.7	180.0000				174.4			11.4			6.3			96.07
FAL04	GR27623	6549168	27.6KV_1P_1/0_AL_TRXLPE	Cable	59.4	180.0000				152.7			10.0			5.5			96.06
FAL04	GR27628	6549038	27.6KV_1P_1/0_AL_TRXLPE	Cable	147.4	180.0000				131.0			8.6			4.8			96.06
FAL04	GR27634	6545609	27.6KV_1P_1/0_AL_TRXLPE	Cable	101.6	180.0000				109.4			7.1			4.0			96.05
FAL04	GR27639	6547516	27.6KV_1P_1/0_AL_TRXLPE	Cable	107.7	180.0000				88.0			5.7			3.2			96.05
FAL04	GR27640	6549432	27.6KV_1P_1/0_AL_TRXLPE	Cable	116.3	180.0000		85.8			5.6			3.1			96.47		
FAL04	GR27645	6546723	27.6KV_1P_1/0_AL_TRXLPE	Cable	119.6	180.0000		66.9			4.4			2.4			96.47		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR27437	9005695	27.6KV_2P_1/0_AL_XLPE	Cable	27.1	180.0000		147.3	234.1		9.6	15.3		5.3	8.5		96.42	96.30	
FAL04	GR27438	9005642	27.6KV_1P_1/0_AL_XLPE	Cable	103.5	180.0000			234.1			15.3			8.5			96.29	
FAL04	GR27443	9005643	27.6KV_1P_1/0_AL_XLPE	Cable	56.1	180.0000			207.1			13.5			7.5			96.28	
FAL04	GR27448	9005640	27.6KV_1P_1/0_AL_XLPE	Cable	202.7	180.0000			171.1			11.2			6.2			96.27	
FAL04	GR27453	9005639	27.6KV_1P_1/0_AL_XLPE	Cable	63.3	180.0000			153.1			10.0			5.5			96.26	
FAL04	GR27458	9005638	27.6KV_1P_1/0_AL_XLPE	Cable	90.4	180.0000			135.1			8.8			4.9			96.26	
FAL04	GR27463	9005726	27.6KV_1P_1/0_AL_XLPE	Cable	216.4	180.0000			117.0			7.6			4.2			96.25	
FAL04	GR27468	9005634	27.6KV_1P_1/0_AL_XLPE	Cable	98.9	180.0000			99.0			6.5			3.6			96.24	
FAL04	GR27473	9005731	27.6KV_1P_1/0_AL_XLPE	Cable	46.3	180.0000			72.0			4.7			2.6			96.24	
FAL04	GR27478	9005652	27.6KV_1P_1/0_AL_XLPE	Cable	122.9	180.0000			54.0			3.5			2.0			96.24	
FAL04	GR27483	9005651	27.6KV_1P_1/0_AL_XLPE	Cable	103.9	180.0000			36.0			2.3			1.3			96.24	
FAL04	GR27488	9005650	27.6KV_1P_1/0_AL_XLPE	Cable	79.8	180.0000			18.0			1.2			0.7			96.24	
FAL04	GR27492	9006177	27.6KV_1P_1/0_AL_XLPE	Cable	97.8	180.0000		147.3			9.6			5.3			96.41		
FAL04	GR27497	9006178	27.6KV_1P_1/0_AL_XLPE	Cable	88.0	180.0000		127.7			8.3			4.6			96.41		
FAL04	GR27502	9006188	27.6KV_1P_1/0_AL_XLPE	Cable	146.1	180.0000		108.0			7.0			3.9			96.40		
FAL04	GR27507	9006189	27.6KV_1P_1/0_AL_XLPE	Cable	51.4	180.0000		88.4			5.8			3.2			96.40		
FAL04	GR27512	9006190	27.6KV_1P_1/0_AL_XLPE	Cable	51.5	180.0000		58.9			3.8			2.1			96.40		
FAL04	GR27517	9006192	27.6KV_1P_1/0_AL_XLPE	Cable	80.1	180.0000		39.3			2.6			1.4			96.40		
FAL04	GR27522	9006193	27.6KV_1P_1/0_AL_XLPE	Cable	83.0	180.0000		19.6			1.3			0.7			96.40		
FAL04	GR27388	6517793	27.6KV_3P_2/0_AL_XLPE	Cable	47.0	210.0000		176.8	126.0	197.6	11.5	8.2	12.9	5.5	3.9	6.1	96.46	96.30	96.24
FAL04	GR27389	6517792	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			126.0			8.2			4.6			96.30	
FAL04	GR27394	6517791	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			108.0			7.0			3.9			96.30	
FAL04	GR27395	6517975	27.6KV_1P_2/0_AL_XLPE	Cable	146.5	210.0000		176.8			11.5			5.5			96.45		
FAL04	GR27400	6517950	27.6KV_1P_2/0_AL_XLPE	Cable	37.6	210.0000		157.1			10.2			4.9			96.45		
FAL04	GR27405	6517951	27.6KV_1P_2/0_AL_XLPE	Cable	106.7	210.0000		137.5			8.9			4.3			96.44		
FAL04	GR27410	6517952	27.6KV_1P_2/0_AL_XLPE	Cable	113.8	210.0000		117.8			7.7			3.7			96.44		
FAL04	GR27415	6544266	27.6KV_1P_2/0_AL_XLPE	Cable	44.2	210.0000		98.2			6.4			3.0			96.43		
FAL04	GR27420	6544267	27.6KV_1P_2/0_AL_XLPE	Cable	94.8	210.0000		78.6			5.1			2.4			96.43		
FAL04	GR27425	6519903	27.6KV_1P_2/0_AL_XLPE	Cable	98.2	210.0000		58.9			3.8			1.8			96.43		
FAL04	GR27428	6547585	27.6KV_1P_2/0_AL_XLPE	Cable	76.5	210.0000		39.3			2.6			1.2			96.43		
FAL04	GR27431	6544109	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		19.6			1.3			0.6			96.43		
FAL04	GR27436	6548261	27.6KV_1P_1/0_AL_XLPE	Cable	13.8	180.0000				197.6			12.9			7.2			96.24
FAL04	GR27373	6545495	27.6KV_3P_2/0_AL_XLPE	Cable	49.9	210.0000		235.8	162.1	351.6	15.3	10.6	22.9	7.3	5.0	10.9	96.45	96.28	96.20
FAL04	GR27374	6544950	27.6KV_1P_2/0_AL_XLPE	Cable	14.0	210.0000				351.6			22.9			10.9			96.20
FAL04	GR27375	6545496	27.6KV_1P_2/0_AL_XLPE	Cable	122.3	210.0000		235.8			15.3			7.3			96.44		
FAL04	GR27381	6520724	27.6KV_1P_1/0_AL_XLPE	Cable	142.8	180.0000		216.2			14.1			7.8			96.43		
FAL04	GR27382	6572800	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			162.1			10.6			5.0			96.28	
FAL04	GR27387	6543702	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			144.1			9.4			4.5			96.28	
FAL04	GR27365	6517695	27.6KV_2P_2/0_AL_XLPE	Cable	47.2	210.0000			90.0	131.7		5.9	8.6		2.8	4.1		96.28	96.22
FAL04	GR27366	6517692	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				131.7			8.6			4.1			96.22
FAL04	GR27371	6517691	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				109.8			7.2			3.4			96.21
FAL04	GR27372	6517693	27.6KV_1P_2/0_AL_XLPE	Cable	14.0	210.0000			90.0			5.9			2.8			96.28	
FAL04	GR27269	6547175	27.6KV_3P_1/0_AL_XLPE	Cable	8.1	180.0000		157.1	54.0	175.7	10.2	3.5	11.4	5.7	2.0	6.3	96.51	96.55	96.74
FAL04	GR27270	6543404	27.6KV_2P_1/0_AL_XLPE	Cable	93.2	180.0000			54.0	175.7		3.5	11.4		2.0	6.3		96.55	96.73
FAL04	GR27271	13148386	27.6KV_1P_1/0_AL_XLPE	Cable	159.2	180.0000				175.7			11.4			6.3			96.72
FAL04	GR27276	6549662	27.6KV_1P_1/0_AL_TRXLPE	Cable	204.6	180.0000				153.7			10.0			5.5			96.71
FAL04	GR27281	6549051	27.6KV_1P_1/0_AL_TRXLPE	Cable	309.8	180.0000				131.7			8.5			4.7			96.69
FAL04	GR27282	6544842	27.6KV_1P_1/0_AL_TRXLPE	Cable	199.3	180.0000				131.7			8.5			4.7			96.68
FAL04	GR27287	6544839	27.6KV_1P_1/0_AL_TRXLPE	Cable	87.9	180.0000				109.8			7.1			4.0			96.68
FAL04	GR27292	6546145	27.6KV_1P_1/0_AL_TRXLPE	Cable	130.3	180.0000				87.8			5.7			3.2			96.67
FAL04	GR27297	6546144	27.6KV_1P_1/0_AL_TRXLPE	Cable	96.4	180.0000				65.9			4.3			2.4			96.67
FAL04	GR27302	6544480	27.6KV_1P_1/0_AL_TRXLPE	Cable	276.8	180.0000				43.9			2.8			1.6			96.67
FAL04	GR27307	6544713	27.6KV_1P_1/0_AL_TRXLPE	Cable	110.9	180.0000				0.0			0.0			0.0			96.67
FAL04	GR27308	6543470	27.6KV_1P_1/0_AL_XLPE	Cable	77.8	180.0000			54.0			3.5			2.0			96.55	
FAL04	GR27313	6547121	27.6KV_1P_1/0_AL_XLPE	Cable	70.7	180.0000			36.0			2.3			1.3			96.55	
FAL04	GR27318	6549084	27.6KV_1P_1/0_AL_XLPE	Cable	70.0	180.0000			18.0			1.2			0.7			96.55	
FAL04	GR27323	6549083	27.6KV_1P_1/0_AL_XLPE	Cable	153.3	180.0000			0.0			0.0			0.0			96.55	
FAL04	GR27325	6549032	27.6KV_1P_1/0_AL_XLPE	Cable	198.8	180.0000		157.1			10.2			5.7			96.50		
FAL04	GR27330	6547296	27.6KV_1P_1/0_AL_XLPE	Cable	93.8	180.0000		137.5			8.9			5.0			96.49		
FAL04	GR27335	6547295	27.6KV_1P_1/0_AL_XLPE	Cable	75.6	180.0000		117.8			7.7			4.3			96.49		
FAL04	GR27340	6543369	27.6KV_1P_1/0_AL_XLPE	Cable	150.9	180.0000		98.2			6.4			3.5			96.48		
FAL04	GR27345	6543368	27.6KV_1P_1/0_AL_XLPE	Cable	96.3	180.0000		78.6			5.1			2.8			96.48		
FAL04	GR27350	6543367	27.6KV_1P_1/0_AL_XLPE	Cable	118.4	180.0000		58.9			3.8			2.1			96.48		
FAL04	GR27355	6546441	27.6KV_1P_1/0_AL_XLPE	Cable	59.7	180.0000		39.3			2.6			1.4			96.48		
FAL04	GR27360	6546440	27.6KV_1P_1/0_AL_XLPE	Cable	46.2	180.0000		19.6			1.3			0.7			96.48		
FAL04	GR27235	6544960	27.6KV_3P_2/0_AL_XLPE	Cable	39.2	210.0000		145.3	144.1	316.5	9.4	9.4	20.5	4.5	4.5	9.8	96.53	96.56	96.74
FAL04	GR27236	6543959	27.6KV_1P_2/0_AL_XLPE	Cable	112.0	210.0000		145.3			9.4			4.5			96.52		
FAL04	GR27241	6543776	27.6KV_1P_2/0_AL_XLPE	Cable	109.7	210.0000		125.7			8.2			3.9			96.52		
FAL04	GR27246	6549614	27.6KV_1P_2/0_AL_XLPE	Cable	67.1	210.0000		106.1			6.9			3.3			96.52		
FAL04	GR27252	6547203	27.6KV_1P_2/0_AL_XLPE	Cable	98.9	210.0000		86.4			5.6			2.7			96.51		
FAL04	GR27257	6547204	27.6KV_1P_2/0_AL_XLPE	Cable	82.1	210.0000		66.8			4.3			2.1			96.51		
FAL04	GR27262	6547205	27.6KV_1P_2/0_AL_XLPE	Cable	142.0	210.0000		47.1			3.1			1.5			96.51		
FAL04	GR27267	6548020	27.6KV_1P_2/0_AL_XLPE	Cable	131.7	210.0000		27.5			1.8			0.9			96.51		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR27268	6546349	27.6KV_2P_2/0_AL_XLPE	Cable	27.2	210.0000			144.1	316.4		9.4	20.5		4.5	9.8		96.56	96.73
FAL04	GR27211	11505162	27.6KV_2P_1/0_AL_XLPE	Cable	51.1	180.0000		19.6		120.7	1.3		7.8	0.7		4.4	96.49		96.73
FAL04	GR27212	11390722	27.6KV_1P_1/0_AL_XLPE	Cable	167.0	180.0000				120.7			7.8			4.4			96.72
FAL04	GR27217	11504863	27.6KV_1P_1/0_AL_TRXLPE	Cable	83.7	180.0000				98.8			6.4			3.6			96.71
FAL04	GR27222	11507185	27.6KV_1P_1/0_AL_TRXLPE	Cable	96.1	180.0000				65.9			4.3			2.4			96.71
FAL04	GR27227	11507195	27.6KV_1P_1/0_AL_TRXLPE	Cable	110.4	180.0000				32.9			2.1			1.2			96.71
FAL04	GR27231	11390738	27.6KV_1P_1/0_AL_XLPE	Cable	55.9	180.0000		19.6			1.3			0.7			96.49		
FAL04	GR27210	6544775	27.6KV_2P_1/0_AL_XLPE	Cable	0.2	180.0000		117.9	144.1		7.7	9.4		4.3	5.2		96.57	96.58	
FAL04	GR28665	6545040	27.6KV_3P_4/0_AL_XLPE	Cable	341.3	400.0000		19.6	0.0	0.0	1.3	0.0	0.0	0.3	0.0	0.0	96.45	96.28	96.20
FAL04	GR28666	6546953	27.6KV_2P_1/0_AL_XLPE	Cable	2.4	180.0000			0.0	0.0		0.0	0.0		0.0	0.0		96.28	96.20
FAL04	GR28667	6547287	27.6KV_1P_1/0_AL_XLPE	Cable	33.7	180.0000		19.6			1.3			0.7			96.45		
FAL04	GR28672	6547607	27.6KV_1P_1/0_AL_XLPE	Cable	34.3	180.0000		0.0			0.0			0.0			96.45		
FAL04	GR28364	6547976	27.6KV_2P_1/0_AL_XLPE	Cable	76.7	180.0000		157.2	18.0		10.2	1.2		5.7	0.7		96.51	96.48	
FAL04	GR28365	6546582	27.6KV_1P_1/0_AL_XLPE	Cable	14.0	180.0000		157.2			10.2			5.7			96.51		
FAL04	GR28366	6547974	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			18.0			1.2			0.7			96.48	
FAL04	GR28371	6549586	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			0.0			0.0			0.0			96.48	
FAL04	GR28047	6546999	27.6KV_2P_1/0_AL_XLPE	Cable	46.0	180.0000		78.6	225.1		5.1	14.6		2.8	8.1		96.50	96.47	
FAL04	GR28048	11511844	27.6KV_1P_1/0_AL_XLPE	Cable	3.9	180.0000			225.1			14.6			8.1			96.47	
FAL04	GR28049	11511847	27.6KV_1P_1/0_AL_XLPE	Cable	14.3	180.0000		78.6			5.1			2.8			96.50		
FAL04	GR28054	11511864	27.6KV_1P_1/0_AL_XLPE	Cable	15.8	180.0000		58.9			3.8			2.1			96.50		
FAL04	GR28039	6545838	27.6KV_2P_1/0_AL_XLPE	Cable	99.2	180.0000			216.1	263.5		14.1	17.2		7.8	9.5		96.29	96.26
FAL04	GR28040	6546135	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000				263.5			17.2			9.5			96.26
FAL04	GR28045	6544069	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000				230.6			15.0			8.4			96.26
FAL04	GR28046	6546136	27.6KV_1P_1/0_AL_XLPE	Cable	18.0	180.0000			216.1			14.1			7.8			96.29	
FAL04	GR28031	6547515	27.6KV_2P_1/0_AL_TRXLPE	Cable	38.4	180.0000			67.0	88.0		4.4	5.7		2.4	3.2		96.17	96.05
FAL04	GR28032	6544762	27.6KV_1P_1/0_AL_TRXLPE	Cable	14.1	180.0000			67.0			4.4			2.4			96.17	
FAL04	GR28033	6547514	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.5	180.0000				88.0			5.7			3.2			96.05
FAL04	GR28038	6546865	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.5	180.0000				66.9			4.4			2.4			96.05
FAL04	GR28219	6549736	27.6KV_2P_1/0_AL_TRXLPE	Cable	148.6	180.0000			67.0	66.9		4.4	4.4		2.4	2.4		96.16	96.04
FAL04	GR28486	6547111	27.6KV_3P_1/0_AL_TRXLPE	Cable	6.4	180.0000		66.9	66.9	66.9	4.4	4.4	4.4	2.4	2.4	2.4	96.47	96.16	96.04
FAL04	GR28480	6544472	27.6KV_2P_2/0_AL_XLPE	Cable	86.8	210.0000		19.6	0.0		1.3	0.0		0.6	0.0		96.43	96.29	
FAL04	GR28481	6544107	27.6KV_1P_2/0_AL_XLPE	Cable	148.7	210.0000			0.0			0.0			0.0			96.29	
FAL04	GR28482	6544122	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		19.6			1.3			0.6			96.43		
FAL04	GR27993	6517790	27.6KV_2P_2/0_AL_XLPE	Cable	67.6	210.0000			108.0	197.6		7.0	12.9		3.4	6.1		96.30	96.24
FAL04	GR27994	6517789	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			108.0			7.0			3.4			96.30	
FAL04	GR27999	6547395	27.6KV_1P_2/0_AL_XLPE	Cable	51.0	210.0000			90.0			5.9			2.8			96.29	
FAL04	GR28000	6519569	27.6KV_1P_2/0_AL_XLPE	Cable	80.9	210.0000				197.6			12.9			6.1			96.23
FAL04	GR28005	6519568	27.6KV_1P_2/0_AL_XLPE	Cable	63.6	210.0000				175.6			11.5			5.5			96.23
FAL04	GR28010	6544264	27.6KV_1P_2/0_AL_XLPE	Cable	118.8	210.0000				153.7			10.0			4.8			96.22
FAL04	GR28013	6544263	27.6KV_1P_2/0_AL_XLPE	Cable	46.4	210.0000				131.7			8.6			4.1			96.22
FAL04	GR28016	6544262	27.6KV_1P_2/0_AL_XLPE	Cable	48.8	210.0000				109.8			7.2			3.4			96.22
FAL04	GR28021	6544261	27.6KV_1P_2/0_AL_XLPE	Cable	76.0	210.0000				87.8			5.7			2.7			96.21
FAL04	GR28026	6572812	27.6KV_1P_2/0_AL_XLPE	Cable	45.4	210.0000				65.9			4.3			2.0			96.21
FAL04	GR28178	6547394	27.6KV_2P_2/0_AL_XLPE	Cable	51.3	210.0000			90.0	65.9		5.9	4.3		2.8	2.0		96.29	96.21
FAL04	GR28179	6519570	27.6KV_1P_2/0_AL_XLPE	Cable	46.0	210.0000			90.0			5.9			2.8			96.29	
FAL04	GR28182	6544260	27.6KV_1P_2/0_AL_XLPE	Cable	75.7	210.0000			72.0			4.7			2.2			96.29	
FAL04	GR28187	6544259	27.6KV_1P_2/0_AL_XLPE	Cable	59.9	210.0000			54.0			3.5			1.7			96.29	
FAL04	GR28192	6544258	27.6KV_1P_2/0_AL_XLPE	Cable	43.6	210.0000			36.0			2.3			1.1			96.29	
FAL04	GR28197	6544257	27.6KV_1P_2/0_AL_XLPE	Cable	105.0	210.0000			18.0			1.2			0.6			96.29	
FAL04	GR28202	6544108	27.6KV_1P_2/0_AL_XLPE	Cable	100.5	210.0000			0.0			0.0			0.0			96.29	
FAL04	GR28205	6547171	27.6KV_1P_2/0_AL_XLPE	Cable	45.8	210.0000				65.9			4.3			2.0			96.21
FAL04	GR28210	6546532	27.6KV_1P_2/0_AL_XLPE	Cable	68.7	210.0000				43.9			2.9			1.4			96.21
FAL04	GR28215	6544265	27.6KV_1P_2/0_AL_XLPE	Cable	60.5	210.0000				22.0			1.4			0.7			96.21
FAL04	GR27985	6544921	27.6KV_2P_1/0_AL_XLPE	Cable	67.3	180.0000			144.1	351.6		9.4	22.9		5.2	12.7		96.28	96.19
FAL04	GR27986	6518942	27.6KV_1P_1/0_AL_XLPE	Cable	1.0	180.0000			144.1			9.4			5.2			96.28	
FAL04	GR27987	6519155	27.6KV_1P_1/0_AL_XLPE	Cable	22.3	180.0000				351.6			22.9			12.7			96.19
FAL04	GR27992	6518737	27.6KV_1P_1/0_AL_XLPE	Cable	22.9	180.0000				329.6			21.5			11.9			96.19
FAL04	GR28170	6519488	27.6KV_2P_1/0_AL_XLPE	Cable	87.5	180.0000			144.1	329.6		9.4	21.5		5.2	11.9		96.28	96.18
FAL04	GR28171	6519489	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			144.1			9.4			5.2			96.28	
FAL04	GR28176	6519094	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			126.0			8.2			4.6			96.28	
FAL04	GR28177	6548351	27.6KV_1P_1/0_AL_XLPE	Cable	16.0	180.0000				329.6			21.5			11.9			96.17
FAL04	GR28472	6519095	27.6KV_2P_1/0_AL_XLPE	Cable	53.0	180.0000			126.0	329.6		8.2	21.5		4.6	11.9		96.27	96.17
FAL04	GR28473	6519276	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000				329.5			21.5			11.9			96.17
FAL04	GR28478	6519512	27.6KV_1P_1/0_AL_XLPE	Cable	9.5	180.0000				307.6			20.1			11.2			96.17
FAL04	GR28479	6519518	27.6KV_1P_1/0_AL_XLPE	Cable	12.0	180.0000			126.0			8.2			4.6			96.27	
FAL04	GR28529	6520737	27.6KV_2P_1/0_AL_XLPE	Cable	26.7	180.0000			126.0	307.6		8.2	20.1		4.6	11.2		96.27	96.16
FAL04	GR28609	6520741	27.6KV_3P_1/0_AL_XLPE	Cable	95.5	180.0000		216.1	126.0	307.6	14.1	8.2	20.1	7.8	4.6	11.2	96.42	96.27	96.15
FAL04	GR28610	6519890	27.6KV_1P_1/0_AL_XLPE	Cable	16.7	180.0000		216.1			14.1			7.8			96.42		
FAL04	GR28615	6519907	27.6KV_1P_1/0_AL_XLPE	Cable	16.7	180.0000		196.5			12.8			7.1			96.42		
FAL04	GR28616	6520744	27.6KV_2P_1/0_AL_XLPE	Cable	1.8	180.0000			126.0	307.5		8.2	20.1		4.6	11.2		96.27	96.15
FAL04	GR28635	6519909	27.6KV_3P_1/0_AL_XLPE	Cable	86.9	180.0000		196.5	126.0	307.5	12.8	8.2	20.1	7.1	4.6	11.2	96.41	96.27	96.14
FAL04	GR28636	6517720	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			126.0			8.2			4.6			96.27	
FAL04	GR28641	6518128	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			108.0			7.0			3.9			96.27	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR28642	6518309	27.6KV_2P_1/0_AL_XLPE	Cable	14.0	180.0000		196.5		307.5	12.8		20.1	7.1		11.2	96.41		96.14
FAL04	GR28652	6547741	27.6KV_3P_1/0_AL_XLPE	Cable	36.1	180.0000		196.5	108.0	307.5	12.8	7.0	20.1	7.1	3.9	11.2	96.41	96.27	96.14
FAL04	GR28653	6519136	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000				307.5			20.1			11.2			96.14
FAL04	GR28658	6518311	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000				285.5			18.6			10.4			96.14
FAL04	GR28659	6519137	27.6KV_2P_1/0_AL_XLPE	Cable	14.0	180.0000		196.5	108.0		12.8	7.0		7.1	3.9		96.41	96.27	
FAL04	GR28679	6517699	27.6KV_3P_1/0_AL_XLPE	Cable	82.2	180.0000		196.5	108.0	285.5	12.8	7.0	18.6	7.1	3.9	10.4	96.41	96.27	96.13
FAL04	GR28680	6518315	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000		196.4			12.8			7.1			96.41		
FAL04	GR28685	6518316	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000		176.8			11.5			6.4			96.41		
FAL04	GR28686	6519138	27.6KV_2P_1/0_AL_XLPE	Cable	13.9	180.0000			108.0	285.5		7.0	18.6		3.9	10.4		96.27	96.13
FAL04	GR28687	6544655	27.6KV_3P_2/0_AL_XLPE	Cable	77.3	210.0000		176.8	108.0	285.5	11.5	7.0	18.6	5.5	3.4	8.9	96.40	96.27	96.12
FAL04	GR28688	6544657	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			108.0			7.0			3.4			96.27	
FAL04	GR28694	6544656	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			90.0			5.9			2.8			96.27	
FAL04	GR28695	6545292	27.6KV_2P_2/0_AL_XLPE	Cable	18.1	210.0000		176.8		285.5	11.5		18.6	5.5		8.9	96.40		96.12
FAL04	GR28696	6544612	27.6KV_3P_2/0_AL_XLPE	Cable	27.3	210.0000		176.8	90.0	285.5	11.5	5.9	18.6	5.5	2.8	8.9	96.40	96.26	96.12
FAL04	GR28697	6544654	27.6KV_2P_2/0_AL_XLPE	Cable	71.9	210.0000		176.8	90.0		11.5	5.9		5.5	2.8		96.40	96.26	
FAL04	GR28698	6544651	27.6KV_1P_2/0_AL_XLPE	Cable	13.9	210.0000			90.0			5.9			2.8			96.26	
FAL04	GR28699	6544653	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		176.8			11.5			5.5			96.40		
FAL04	GR28704	6544650	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		157.1			10.2			4.9			96.40		
FAL04	GR28705	6546240	27.6KV_1P_2/0_AL_XLPE	Cable	55.8	210.0000				285.5			18.6			8.9			96.11
FAL04	GR28710	6544658	27.6KV_1P_2/0_AL_XLPE	Cable	67.3	210.0000				263.5			17.2			8.2			96.11
FAL04	GR28715	6543685	27.6KV_1P_2/0_AL_XLPE	Cable	93.5	210.0000				241.5			15.8			7.5			96.10
FAL04	GR28720	6572805	27.6KV_1P_2/0_AL_XLPE	Cable	74.9	210.0000				219.6			14.3			6.8			96.09
FAL04	GR28721	6546272	27.6KV_2P_2/0_AL_XLPE	Cable	69.9	210.0000		157.1	90.0		10.2	5.9		4.9	2.8		96.39	96.26	
FAL04	GR28722	6546269	27.6KV_1P_2/0_AL_XLPE	Cable	14.1	210.0000		157.1			10.2			4.9			96.39		
FAL04	GR28723	6546271	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			90.0			5.9			2.8			96.26	
FAL04	GR28728	6546270	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			72.0			4.7			2.2			96.26	
FAL04	GR28729	6546268	27.6KV_2P_2/0_AL_XLPE	Cable	59.1	210.0000		157.1	72.0		10.2	4.7		4.9	2.2		96.39	96.26	
FAL04	GR28730	6546266	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		157.1			10.2			4.9			96.39		
FAL04	GR28735	6546072	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		137.5			9.0			4.3			96.39		
FAL04	GR28736	6546267	27.6KV_1P_2/0_AL_XLPE	Cable	14.0	210.0000			72.0			4.7			2.2			96.26	
FAL04	GR28737	6546071	27.6KV_2P_2/0_AL_XLPE	Cable	36.1	210.0000		137.5	72.0		9.0	4.7		4.3	2.2		96.39	96.26	
FAL04	GR28738	6543655	27.6KV_1P_2/0_AL_XLPE	Cable	14.0	210.0000		137.5			9.0			4.3			96.39		
FAL04	GR28739	6546070	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			72.0			4.7			2.2			96.26	
FAL04	GR28744	6544838	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			54.0			3.5			1.7			96.26	
FAL04	GR28745	6545259	27.6KV_2P_2/0_AL_XLPE	Cable	123.0	210.0000		137.5	54.0		9.0	3.5		4.3	1.7		96.38	96.26	
FAL04	GR28746	6517767	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		137.5			9.0			4.3			96.38		
FAL04	GR28751	6517578	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		117.8			7.7			3.7			96.38		
FAL04	GR28752	6517768	27.6KV_1P_2/0_AL_XLPE	Cable	14.0	210.0000			54.0			3.5			1.7			96.26	
FAL04	GR28753	6517766	27.6KV_2P_2/0_AL_XLPE	Cable	37.7	210.0000		117.8	54.0		7.7	3.5		3.7	1.7		96.38	96.26	
FAL04	GR28754	6517765	27.6KV_3P_2/0_AL_XLPE	Cable	42.1	210.0000		117.9	54.0	219.6	7.7	3.5	14.3	3.7	1.7	6.8	96.38	96.26	96.09
FAL04	GR28755	6517577	27.6KV_2P_2/0_AL_XLPE	Cable	14.0	210.0000		117.9	54.0		7.7	3.5		3.7	1.7		96.38	96.26	
FAL04	GR28756	6517764	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				219.6			14.3			6.8			96.09
FAL04	GR28761	6517576	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				197.6			12.9			6.1			96.09
FAL04	GR28762	6517761	27.6KV_3P_2/0_AL_XLPE	Cable	96.3	210.0000		117.9	54.0	197.6	7.7	3.5	12.9	3.7	1.7	6.1	96.38	96.26	96.08
FAL04	GR28763	6517758	27.6KV_3P_2/0_AL_XLPE	Cable	136.3	210.0000		117.9	54.0	197.6	7.7	3.5	12.9	3.7	1.7	6.1	96.37	96.26	96.08
FAL04	GR28764	6517760	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				197.6			12.9			6.1			96.08
FAL04	GR28769	6517759	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				175.6			11.5			5.5			96.08
FAL04	GR28770	6520788	27.6KV_2P_2/0_AL_XLPE	Cable	14.0	210.0000		117.8	54.0		7.7	3.5		3.7	1.7		96.37	96.26	
FAL04	GR28771	6520786	27.6KV_3P_2/0_AL_XLPE	Cable	54.8	210.0000		117.8	54.0	175.6	7.7	3.5	11.5	3.7	1.7	5.5	96.37	96.26	96.07
FAL04	GR28772	6519732	27.6KV_1P_2/0_AL_XLPE	Cable	88.8	210.0000				175.6			11.5			5.5			96.07
FAL04	GR28777	6519946	27.6KV_1P_2/0_AL_XLPE	Cable	69.4	210.0000				153.7			10.0			4.8			96.06
FAL04	GR28782	6519947	27.6KV_1P_2/0_AL_XLPE	Cable	82.7	210.0000				131.7			8.6			4.1			96.06
FAL04	GR28787	6519948	27.6KV_1P_2/0_AL_XLPE	Cable	74.0	210.0000				109.8			7.2			3.4			96.06
FAL04	GR28792	6519950	27.6KV_1P_2/0_AL_XLPE	Cable	207.7	210.0000				87.8			5.7			2.7			96.05
FAL04	GR28797	6519959	27.6KV_1P_2/0_AL_XLPE	Cable	20.3	210.0000				65.9			4.3			2.0			96.05
FAL04	GR28802	6519963	27.6KV_1P_2/0_AL_XLPE	Cable	99.7	210.0000				43.9			2.9			1.4			96.05
FAL04	GR28806	6544287	27.6KV_2P_1/0_AL_XLPE	Cable	22.7	180.0000		117.8	54.0		7.7	3.5		4.3	2.0		96.37	96.26	
FAL04	GR28807	6544081	27.6KV_1P_1/0_AL_XLPE	Cable	120.9	180.0000			54.0			3.5			2.0			96.25	
FAL04	GR28812	6545324	27.6KV_1P_1/0_AL_XLPE	Cable	160.5	180.0000			36.0			2.3			1.3			96.25	
FAL04	GR28817	6544282	27.6KV_1P_1/0_AL_XLPE	Cable	13.7	180.0000			18.0			1.2			0.7			96.25	
FAL04	GR28822	6519981	27.6KV_1P_2/0_AL_XLPE	Cable	131.3	210.0000			0.0			0.0			0.0			96.25	
FAL04	GR28823	6544448	27.6KV_1P_1/0_AL_XLPE	Cable	86.0	180.0000		117.8			7.7			4.3			96.37		
FAL04	GR28828	6545114	27.6KV_1P_1/0_AL_XLPE	Cable	99.5	180.0000		98.2			6.4			3.6			96.36		
FAL04	GR28833	6544897	27.6KV_1P_1/0_AL_XLPE	Cable	111.8	180.0000		78.6			5.1			2.8			96.36		
FAL04	GR28838	6545642	27.6KV_1P_1/0_AL_XLPE	Cable	125.1	180.0000		58.9			3.8			2.1			96.36		
FAL04	GR28843	6545643	27.6KV_1P_1/0_AL_XLPE	Cable	98.9	180.0000		39.3			2.6			1.4			96.35		
FAL04	GR28848	6545644	27.6KV_1P_1/0_AL_XLPE	Cable	94.1	180.0000		19.6			1.3			0.7			96.35		
FAL04	GR28853	6544016	27.6KV_1P_2/0_AL_XLPE	Cable	113.0	210.0000		0.0			0.0			0.0			96.35		
FAL04	GR27956	6517690	27.6KV_2P_1/0_AL_XLPE	Cable	54.2	180.0000			90.0	109.8		5.9	7.2		3.3	4.0		96.28	96.21
FAL04	GR27957	6519477	27.6KV_1P_2/0_AL_XLPE	Cable	82.9	210.0000				109.8			7.2			3.4			96.21
FAL04	GR27963	6520666	27.6KV_1P_2/0_AL_XLPE	Cable	80.2	210.0000				87.8			5.7			2.7			96.21
FAL04	GR27968	6520483	27.6KV_1P_2/0_AL_XLPE	Cable	83.2	210.0000				65.9			4.3			2.0			96.21
FAL04	GR27973	6519885	27.6KV_1P_2/0_AL_XLPE	Cable	151.6	210.0000				43.9			2.9			1.4			96.20

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR27974	6546960	27.6KV_1P_2/0_AL_XLPE	Cable	16.5	210.0000			90.0			5.9			2.8			96.28	
FAL04	GR27979	6519919	27.6KV_1P_2/0_AL_XLPE	Cable	61.0	210.0000			72.0			4.7			2.2			96.28	
FAL04	GR27984	6519887	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			54.0			3.5			1.7			96.28	
FAL04	GR28162	6519888	27.6KV_2P_2/0_AL_XLPE	Cable	32.6	210.0000			54.0	43.9		3.5	2.9		1.7	1.4		96.28	96.20
FAL04	GR28163	6519896	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				43.9			2.9			1.4			96.20
FAL04	GR28168	6519916	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				22.0			1.4			0.7			96.20
FAL04	GR28169	6519911	27.6KV_1P_2/0_AL_XLPE	Cable	14.0	210.0000			54.0			3.5			1.7			96.28	
FAL04	GR28464	6519913	27.6KV_2P_2/0_AL_XLPE	Cable	53.8	210.0000			54.0	22.0		3.5	1.4		1.7	0.7		96.28	96.20
FAL04	GR28465	6548083	27.6KV_1P_2/0_AL_XLPE	Cable	14.0	210.0000				22.0			1.4			0.7			96.20
FAL04	GR28466	6548455	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			54.0			3.5			1.7			96.28	
FAL04	GR28471	6548747	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			36.0			2.3			1.1			96.28	
FAL04	GR28521	6546718	27.6KV_2P_2/0_AL_XLPE	Cable	64.9	210.0000			36.0	22.0		2.3	1.4		1.1	0.7		96.28	96.20
FAL04	GR28522	6547822	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				22.0			1.4			0.7			96.20
FAL04	GR28527	6548903	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				0.0			0.0			0.0			96.20
FAL04	GR28528	6547978	27.6KV_1P_2/0_AL_XLPE	Cable	14.1	210.0000			36.0			2.3			1.1			96.28	
FAL04	GR28601	6548902	27.6KV_2P_2/0_AL_XLPE	Cable	52.8	210.0000			36.0	0.0		2.3	0.0		1.1	0.0		96.28	96.20
FAL04	GR28602	6547911	27.6KV_1P_2/0_AL_XLPE	Cable	3.6	210.0000			36.0			2.3			1.1			96.28	
FAL04	GR28607	6549290	27.6KV_1P_2/0_AL_XLPE	Cable	6.0	210.0000			18.0			1.2			0.6			96.28	
FAL04	GR28608	6547912	27.6KV_1P_2/0_AL_XLPE	Cable	20.2	210.0000				0.0			0.0			0.0			96.20
FAL04	GR28627	6549291	27.6KV_2P_2/0_AL_XLPE	Cable	90.7	210.0000			18.0	0.0		1.2	0.0		0.6	0.0		96.28	96.20
FAL04	GR28628	6545560	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			18.0			1.2			0.6			96.28	
FAL04	GR28633	6545461	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			0.0			0.0			0.0			96.28	
FAL04	GR28634	6546262	27.6KV_1P_2/0_AL_XLPE	Cable	14.0	210.0000				0.0			0.0			0.0			96.20
FAL04	GR28651	6545460	27.6KV_2P_2/0_AL_XLPE	Cable	43.8	210.0000			0.0	0.0		0.0	0.0		0.0	0.0		96.28	96.20
FAL04	GR27891	6543380	27.6KV_3P_2/0_AL_XLPE	Cable	143.2	210.0000		27.5	144.1	316.4	1.8	9.4	20.5	0.9	4.5	9.8	96.51	96.55	96.72
FAL04	GR27892	6548006	27.6KV_2P_2/0_AL_XLPE	Cable	61.2	210.0000			144.0	316.4		9.4	20.5		4.5	9.8		96.55	96.71
FAL04	GR27893	6517904	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			144.0			9.4			4.5			96.55	
FAL04	GR27898	6549238	27.6KV_1P_2/0_AL_XLPE	Cable	217.7	210.0000			126.0			8.2			3.9			96.54	
FAL04	GR27903	6548021	27.6KV_1P_2/0_AL_XLPE	Cable	120.2	210.0000			108.0			7.0			3.3			96.54	
FAL04	GR27908	6548022	27.6KV_1P_2/0_AL_XLPE	Cable	176.5	210.0000			90.0			5.9			2.8			96.53	
FAL04	GR27913	6548023	27.6KV_1P_2/0_AL_XLPE	Cable	179.3	210.0000			72.0			4.7			2.2			96.53	
FAL04	GR27918	6546827	27.6KV_1P_2/0_AL_XLPE	Cable	73.2	210.0000			54.0			3.5			1.7			96.52	
FAL04	GR27923	6546828	27.6KV_1P_2/0_AL_XLPE	Cable	59.6	210.0000			36.0			2.3			1.1			96.52	
FAL04	GR27928	6546829	27.6KV_1P_2/0_AL_XLPE	Cable	36.6	210.0000			18.0			1.2			0.6			96.52	
FAL04	GR27929	6549001	27.6KV_1P_2/0_AL_XLPE	Cable	102.3	210.0000				316.4			20.5			9.8			96.70
FAL04	GR27934	6544971	27.6KV_1P_2/0_AL_XLPE	Cable	223.5	210.0000				294.4			19.1			9.1			96.68
FAL04	GR27939	6547230	27.6KV_1P_2/0_AL_XLPE	Cable	80.7	210.0000				272.4			17.7			8.4			96.67
FAL04	GR27944	6547229	27.6KV_1P_2/0_AL_XLPE	Cable	103.2	210.0000				250.4			16.3			7.7			96.66
FAL04	GR27949	6547193	27.6KV_1P_2/0_AL_XLPE	Cable	35.2	210.0000				228.4			14.8			7.1			96.66
FAL04	GR27950	6548706	27.6KV_1P_2/0_AL_XLPE	Cable	7.5	210.0000		27.5			1.8			0.9			96.51		
FAL04	GR27955	6543752	27.6KV_1P_2/0_AL_XLPE	Cable	93.0	210.0000		7.9			0.5			0.2			96.51		
FAL04	GR28161	6547186	27.6KV_2P_2/0_AL_XLPE	Cable	119.2	210.0000		7.9		228.4	0.5		14.8	0.2		7.1	96.51		96.65
FAL04	GR28404	6519695	27.6KV_3P_3/0_AL_XLPE	Cable	163.3	210.0000		7.9	18.0	228.4	0.5	1.2	14.8	0.2	0.6	7.1	96.52	96.52	96.64
FAL04	GR28405	6519698	27.6KV_2P_3/0_AL_XLPE	Cable	54.9	210.0000		7.9	18.0		0.5	1.2		0.2	0.6		96.52	96.52	
FAL04	GR28406	6519543	27.6KV_1P_3/0_AL_XLPE	Cable	3.5	210.0000		7.9			0.5			0.2			96.52		
FAL04	GR28411	6519544	27.6KV_1P_3/0_AL_XLPE	Cable	3.5	210.0000		0.0			0.0			0.0			96.52		
FAL04	GR28412	6519700	27.6KV_1P_3/0_AL_XLPE	Cable	14.0	210.0000			18.0			1.2			0.6			96.52	
FAL04	GR28413	6548348	27.6KV_1P_3/0_AL_XLPE	Cable	52.4	210.0000				228.4			14.8			7.1			96.64
FAL04	GR28418	6519087	27.6KV_1P_1/0_AL_XLPE	Cable	193.5	180.0000				206.4			13.4			7.4			96.62
FAL04	GR28423	6518828	27.6KV_1P_1/0_AL_XLPE	Cable	126.2	180.0000				184.4			12.0			6.7			96.61
FAL04	GR28428	6518829	27.6KV_1P_1/0_AL_XLPE	Cable	52.9	180.0000				162.5			10.6			5.9			96.61
FAL04	GR28433	6518830	27.6KV_1P_1/0_AL_XLPE	Cable	113.0	180.0000				140.5			9.1			5.1			96.60
FAL04	GR28438	6518831	27.6KV_1P_1/0_AL_XLPE	Cable	53.4	180.0000				107.6			7.0			3.9			96.60
FAL04	GR28443	6518832	27.6KV_1P_1/0_AL_XLPE	Cable	68.8	180.0000				74.6			4.8			2.7			96.60
FAL04	GR28448	6547764	27.6KV_1P_1/0_AL_XLPE	Cable	253.2	180.0000				52.7			3.4			1.9			96.59
FAL04	GR28453	6519294	27.6KV_1P_1/0_AL_XLPE	Cable	82.0	180.0000				30.7			2.0			1.1			96.59
FAL04	GR28458	6519295	27.6KV_1P_1/0_AL_XLPE	Cable	60.2	180.0000				22.0			1.4			0.8			96.59
FAL04	GR28463	6519296	27.6KV_1P_3/0_AL_XLPE	Cable	52.7	210.0000				0.0			0.0			0.0			96.59
FAL04	GR28513	6519699	27.6KV_2P_3/0_AL_XLPE	Cable	131.2	210.0000		0.0	18.0		0.0	1.2		0.0	0.6		96.52	96.52	
FAL04	GR28514	6519546	27.6KV_1P_3/0_AL_XLPE	Cable	3.5	210.0000			18.0			1.2			0.6			96.52	
FAL04	GR28519	6519545	27.6KV_1P_3/0_AL_XLPE	Cable	3.5	210.0000			0.0			0.0			0.0			96.52	
FAL04	GR28520	6519549	27.6KV_1P_3/0_AL_XLPE	Cable	14.0	210.0000		0.0			0.0			0.0			96.52		
FAL04	GR28600	6520500	27.6KV_2P_3/0_AL_XLPE	Cable	62.6	210.0000		0.0	0.0		0.0	0.0		0.0	0.0		96.52	96.52	
FAL04	GR28626	6519297	27.6KV_3P_3/0_AL_XLPE	Cable	89.5	210.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.52	96.52	96.59
FAL04	GR27883	6545502	27.6KV_3P_1/0_AL_XLPE	Cable	34.3	180.0000		117.9	144.1	109.9	7.7	9.4	7.1	4.3	5.2	4.0	96.56	96.58	96.71
FAL04	GR27884	6543898	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			144.1			9.4			5.2			96.58	
FAL04	GR27889	6545181	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			126.1			8.2			4.6			96.58	
FAL04	GR27890	6548624	27.6KV_2P_1/0_AL_XLPE	Cable	13.8	180.0000		117.9		109.9	7.7		7.1	4.3		4.0	96.56		96.71
FAL04	GR28143	6545446	27.6KV_3P_1/0_AL_XLPE	Cable	372.2	180.0000		117.9	126.1	109.9	7.7	8.2	7.1	4.3	4.6	4.0	96.55	96.57	96.70
FAL04	GR28144	6543745	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			126.1			8.2			4.6			96.56	
FAL04	GR28149	6543724	27.6KV_1P_1/0_AL_XLPE	Cable	73.2	180.0000			108.1			7.0			3.9			96.56	
FAL04	GR28154	6546529	27.6KV_1P_1/0_AL_XLPE	Cable	53.8	180.0000			90.1			5.9			3.3			96.56	
FAL04	GR28159	6545968	27.6KV_1P_1/0_AL_XLPE	Cable	53.6	180.0000			72.1			4.7			2.6			96.56	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR28160	6544749	27.6KV_2P_1/0_AL_XLPE	Cable	94.3	180.0000		117.9		109.9	7.7		7.1	4.3		4.0	96.55		96.70
FAL04	GR28373	6519427	27.6KV_3P_1/0_AL_XLPE	Cable	76.2	180.0000		117.9	72.1	109.9	7.7	4.7	7.1	4.3	2.6	4.0	96.55	96.56	96.70
FAL04	GR28374	6543459	27.6KV_2P_1/0_AL_XLPE	Cable	52.5	180.0000			72.1	109.9		4.7	7.1		2.6	4.0		96.56	96.69
FAL04	GR28375	6544841	27.6KV_1P_1/0_AL_XLPE	Cable	13.7	180.0000			72.1			4.7			2.6			96.56	
FAL04	GR28376	6546138	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000				109.9			7.1			4.0			96.69
FAL04	GR28381	6544072	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000				87.9			5.7			3.2			96.69
FAL04	GR28382	6544949	27.6KV_1P_1/0_AL_XLPE	Cable	35.2	180.0000		117.9			7.7			4.3			96.54		
FAL04	GR28388	6547076	27.6KV_1P_1/0_AL_XLPE	Cable	88.4	180.0000		98.3			6.4			3.5			96.54		
FAL04	GR28393	6547077	27.6KV_1P_1/0_AL_XLPE	Cable	162.0	180.0000		78.6			5.1			2.8			96.54		
FAL04	GR28398	6547214	27.6KV_1P_1/0_AL_XLPE	Cable	155.9	180.0000		59.0			3.8			2.1			96.53		
FAL04	GR28403	6543568	27.6KV_1P_1/0_AL_XLPE	Cable	107.3	180.0000		39.4			2.6			1.4			96.53		
FAL04	GR28660	6544169	27.6KV_2P_1/0_AL_XLPE	Cable	10.0	180.0000		39.4		44.0	2.6		2.9	1.4		1.6	96.53		96.68
FAL04	GR28505	6544723	27.6KV_2P_1/0_AL_XLPE	Cable	132.1	180.0000			72.1	87.9		4.7	5.7		2.6	3.2		96.55	96.69
FAL04	GR28506	6544881	27.6KV_1P_1/0_AL_XLPE	Cable	16.0	180.0000				87.9			5.7			3.2			96.69
FAL04	GR28507	6545157	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			72.1			4.7			2.6			96.55	
FAL04	GR28512	6545214	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			54.1			3.5			2.0			96.55	
FAL04	GR28592	6548076	27.6KV_2P_1/0_AL_XLPE	Cable	42.8	180.0000			54.1	87.9		3.5	5.7		2.0	3.2		96.55	96.69
FAL04	GR28593	6518118	27.6KV_1P_1/0_AL_XLPE	Cable	50.3	180.0000				87.9			5.7			3.2			96.69
FAL04	GR28598	6547075	27.6KV_1P_1/0_AL_XLPE	Cable	50.8	180.0000				65.9			4.3			2.4			96.69
FAL04	GR28599	6518139	27.6KV_1P_1/0_AL_XLPE	Cable	1.0	180.0000			54.1			3.5			2.0			96.55	
FAL04	GR28618	6518121	27.6KV_2P_1/0_AL_XLPE	Cable	86.0	180.0000			54.1	65.9		3.5	4.3		2.0	2.4		96.55	96.68
FAL04	GR28619	6518073	27.6KV_1P_1/0_AL_XLPE	Cable	16.0	180.0000				65.9			4.3			2.4			96.68
FAL04	GR28624	6546719	27.6KV_1P_1/0_AL_XLPE	Cable	16.6	180.0000				44.0			2.9			1.6			96.68
FAL04	GR28625	6518081	27.6KV_1P_1/0_AL_XLPE	Cable	1.3	180.0000			54.1			3.5			2.0			96.55	
FAL04	GR28643	6549802	27.6KV_2P_1/0_AL_XLPE	Cable	160.1	180.0000			54.1	44.0		3.5	2.9		2.0	1.6		96.55	96.68
FAL04	GR28644	6547722	27.6KV_1P_1/0_AL_XLPE	Cable	8.1	180.0000				44.0			2.9			1.6			96.68
FAL04	GR28645	6549798	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			54.1			3.5			2.0			96.55	
FAL04	GR28650	6546624	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			36.1			2.3			1.3			96.55	
FAL04	GR28661	6548173	27.6KV_3P_1/0_AL_XLPE	Cable	195.9	180.0000		39.4	36.1	44.0	2.6	2.3	2.9	1.4	1.3	1.6	96.53	96.54	96.68
FAL04	GR28673	6547289	27.6KV_3P_4/0_AL_XLPE	Cable	51.5	400.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.45	96.28	96.20
FAL04	GR28674	11560329	27.6KV_3P_4/0_AL_XLPE	Cable	31.2	400.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.45	96.28	96.20
FAL04	GR28675	6546722	27.6KV_2P_4/0_AL_XLPE	Cable	98.2	400.0000			0.0	0.0		0.0	0.0		0.0	0.0		96.28	96.20
FAL04	GR28676	6548465	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000			0.0			0.0			0.0			96.28	
FAL04	GR28677	6549704	27.6KV_1P_1/0_AL_XLPE	Cable	273.3	180.0000				0.0			0.0			0.0			96.20
FAL04	GR28678	6548085	27.6KV_1P_1/0_AL_XLPE	Cable	66.7	180.0000		0.0			0.0			0.0			96.45		
FAL04	GR28551	6548467	27.6KV_3P_1/0_AL_XLPE	Cable	23.9	180.0000		157.2	0.0	0.0	10.2	0.0	0.0	5.7	0.0	0.0	96.50	96.48	96.50
FAL04	GR28552	6548086	27.6KV_3P_1/0_AL_XLPE	Cable	179.5	180.0000		157.2	0.0	0.0	10.2	0.0	0.0	5.7	0.0	0.0	96.49	96.48	96.50
FAL04	GR28553	9006110	27.6KV_3P_3/0_AL_XLPE	Cable	19.9	210.0000		157.1	0.0	0.0	10.2	0.0	0.0	4.9	0.0	0.0	96.49	96.48	96.50
FAL04	GR28554	6549702	27.6KV_3P_1/0_AL_XLPE	Cable	57.4	180.0000		157.1	0.0	0.0	10.2	0.0	0.0	5.7	0.0	0.0	96.49	96.49	96.50
FAL04	GR28555	6543604	27.6KV_1P_1/0_AL_XLPE	Cable	61.6	180.0000		157.1			10.2			5.7			96.48		
FAL04	GR28560	6543947	27.6KV_1P_1/0_AL_XLPE	Cable	88.0	180.0000		137.5			8.9			5.0			96.48		
FAL04	GR28563	6543948	27.6KV_1P_1/0_AL_XLPE	Cable	77.7	180.0000		117.8			7.7			4.3			96.47		
FAL04	GR28566	6543949	27.6KV_1P_1/0_AL_XLPE	Cable	66.2	180.0000		98.2			6.4			3.5			96.47		
FAL04	GR28569	9005663	27.6KV_1P_1/0_AL_XLPE	Cable	69.2	180.0000		78.6			5.1			2.8			96.47		
FAL04	GR28574	6543950	27.6KV_1P_1/0_AL_XLPE	Cable	134.6	180.0000		39.3			2.6			1.4			96.47		
FAL04	GR28579	6543951	27.6KV_1P_1/0_AL_XLPE	Cable	96.3	180.0000		19.6			1.3			0.7			96.47		
FAL04	GR28584	6543952	27.6KV_1P_1/0_AL_XLPE	Cable	184.9	180.0000		0.0			0.0			0.0			96.47		
FAL04	GR28591	6548075	27.6KV_2P_1/0_AL_XLPE	Cable	149.9	180.0000			0.0	0.0		0.0	0.0		0.0	0.0		96.49	96.50
FAL04	GR28617	6549577	27.6KV_3P_1/0_AL_XLPE	Cable	6.1	180.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.49	96.50
FAL04	GR28499	6547977	27.6KV_2P_1/0_AL_XLPE	Cable	87.3	180.0000		157.2	0.0		10.2	0.0		5.7	0.0		96.50	96.48	
FAL04	GR28311	11511865	27.6KV_2P_1/0_AL_XLPE	Cable	6.5	180.0000		58.9	225.1		3.8	14.6		2.1	8.1		96.50	96.47	
FAL04	GR28312	6517956	27.6KV_1P_1/0_AL_XLPE	Cable	32.2	180.0000			225.1			14.6			8.1			96.47	
FAL04	GR28317	6544410	27.6KV_1P_1/0_AL_XLPE	Cable	57.0	180.0000			207.1			13.5			7.5			96.46	
FAL04	GR28322	6544409	27.6KV_1P_1/0_AL_XLPE	Cable	57.2	180.0000			189.1			12.3			6.8			96.46	
FAL04	GR28327	6548664	27.6KV_1P_1/0_AL_XLPE	Cable	85.2	180.0000			171.1			11.1			6.2			96.45	
FAL04	GR28332	6544433	27.6KV_1P_1/0_AL_XLPE	Cable	238.5	180.0000			153.1			10.0			5.5			96.44	
FAL04	GR28337	6544031	27.6KV_1P_1/0_AL_XLPE	Cable	92.9	180.0000			135.0			8.8			4.9			96.43	
FAL04	GR28342	6544032	27.6KV_1P_1/0_AL_XLPE	Cable	51.9	180.0000			117.0			7.6			4.2			96.43	
FAL04	GR28347	6544033	27.6KV_1P_1/0_AL_XLPE	Cable	166.1	180.0000			99.0			6.4			3.6			96.42	
FAL04	GR28348	6543501	27.6KV_1P_1/0_AL_XLPE	Cable	3.5	180.0000		58.9			3.8			2.1			96.50		
FAL04	GR28353	6544412	27.6KV_1P_1/0_AL_XLPE	Cable	119.2	180.0000		39.3			2.6			1.4			96.50		
FAL04	GR28358	6544204	27.6KV_1P_1/0_AL_XLPE	Cable	72.0	180.0000		19.6			1.3			0.7			96.50		
FAL04	GR28363	6544411	27.6KV_1P_1/0_AL_XLPE	Cable	14.1	180.0000		0.0			0.0			0.0			96.50		
FAL04	GR28491	6547231	27.6KV_2P_1/0_AL_XLPE	Cable	88.8	180.0000		0.0	99.0		0.0	6.4		0.0	3.6		96.50	96.42	
FAL04	GR28492	6519014	27.6KV_1P_1/0_AL_XLPE	Cable	12.1	180.0000		0.0			0.0			0.0			96.50		
FAL04	GR28493	6548802	27.6KV_1P_1/0_AL_XLPE	Cable	2.4	180.0000			99.0			6.4			3.6			96.42	
FAL04	GR28498	6544662	27.6KV_1P_1/0_AL_XLPE	Cable	2.7	180.0000			72.0			4.7			2.6			96.42	
FAL04	GR28530	6547457	27.6KV_2P_1/0_AL_XLPE	Cable	70.3	180.0000		0.0	72.0		0.0	4.7		0.0	2.6		96.50	96.42	
FAL04	GR28531	6547393	27.6KV_1P_1/0_AL_XLPE	Cable	23.8	180.0000		0.0			0.0			0.0			96.50		
FAL04	GR28532	6548905	27.6KV_1P_1/0_AL_XLPE	Cable	106.5	180.0000			72.0			4.7			2.6			96.41	
FAL04	GR28537	6548904	27.6KV_1P_1/0_AL_XLPE	Cable	91.8	180.0000			54.0			3.5			2.0			96.41	
FAL04	GR28542	6546127	27.6KV_1P_1/0_AL_XLPE	Cable	174.8	180.0000			36.0			2.3			1.3			96.41	
FAL04	GR28547	6544538	27.6KV_1P_2/0_AL_XLPE	Cable	72.0	210.0000			18.0			1.2			0.6			96.41	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR28220	6545311	27.6KV_2P_1/0_AL_XLPE	Cable	89.6	180.0000			216.1	230.6		14.1	15.0		7.8	8.4		96.28	96.25
FAL04	GR28221	6544481	27.6KV_1P_1/0_AL_XLPE	Cable	41.7	180.0000				230.6			15.0			8.4			96.25
FAL04	GR28226	6544861	27.6KV_1P_1/0_AL_XLPE	Cable	74.7	180.0000				208.6			13.6			7.6			96.24
FAL04	GR28231	6544862	27.6KV_1P_1/0_AL_XLPE	Cable	100.5	180.0000				186.6			12.2			6.8			96.23
FAL04	GR28236	6544094	27.6KV_1P_1/0_AL_XLPE	Cable	66.6	180.0000				153.7			10.0			5.6			96.23
FAL04	GR28241	6548956	27.6KV_1P_2/0_AL_XLPE	Cable	202.8	210.0000				131.7			8.6			4.1			96.22
FAL04	GR28246	6544827	27.6KV_1P_1/0_AL_XLPE	Cable	131.3	180.0000				109.8			7.2			4.0			96.21
FAL04	GR28251	6545057	27.6KV_1P_1/0_AL_XLPE	Cable	111.5	180.0000				87.8			5.7			3.2			96.21
FAL04	GR28256	6545055	27.6KV_1P_1/0_AL_XLPE	Cable	216.5	180.0000				54.9			3.6			2.0			96.21
FAL04	GR28261	6545056	27.6KV_1P_1/0_AL_XLPE	Cable	98.4	180.0000				22.0			1.4			0.8			96.20
FAL04	GR28266	6546137	27.6KV_1P_1/0_AL_XLPE	Cable	34.0	180.0000			216.1			14.1			7.8			96.27	
FAL04	GR28271	6549091	27.6KV_1P_1/0_AL_XLPE	Cable	106.7	180.0000			189.1			12.3			6.8			96.27	
FAL04	GR28276	6544070	27.6KV_1P_1/0_AL_XLPE	Cable	110.8	180.0000			153.1			10.0			5.5			96.26	
FAL04	GR28281	6544071	27.6KV_1P_1/0_AL_XLPE	Cable	139.8	180.0000			126.0			8.2			4.6			96.25	
FAL04	GR28286	6549809	27.6KV_1P_1/0_AL_XLPE	Cable	70.4	180.0000			99.0			6.5			3.6			96.25	
FAL04	GR28291	6547112	27.6KV_1P_1/0_AL_XLPE	Cable	131.4	180.0000			72.0			4.7			2.6			96.25	
FAL04	GR28296	6548551	27.6KV_1P_2/0_AL_XLPE	Cable	137.5	210.0000			54.0			3.5			1.7			96.24	
FAL04	GR28301	6548958	27.6KV_1P_2/0_AL_XLPE	Cable	92.4	210.0000			36.0			2.3			1.1			96.24	
FAL04	GR28306	6548957	27.6KV_1P_2/0_AL_XLPE	Cable	12.0	210.0000			18.0			1.2			0.6			96.24	
FAL04	GR25568	13149798	27.6KV_3P_N556_ASC	Overhead Line	6.9	730.0000		6212.4	6212.6	6211.3	390.0	390.0	389.9	53.4	53.4	53.4	99.96	99.96	99.96
FAL04	GR25569	11627040	27.6KV_3P_Y556_ASC	Overhead Line	1.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.96	99.96	99.96
FAL04	GR25570	11627276	27.6KV_3P_Y556_ASC	Overhead Line	44.8	730.0000		6212.2	6212.4	6211.1	390.0	390.0	389.9	53.4	53.4	53.4	99.94	99.94	99.94
FAL04	GR25571	11627052	27.6KV_3P_Y556_ASC	Overhead Line	55.4	730.0000		6210.9	6211.0	6209.7	390.0	390.0	389.9	53.4	53.4	53.4	99.91	99.91	99.91
FAL04	GR25572	11627049	27.6KV_3P_Y556_ASC	Overhead Line	50.1	730.0000		6194.7	6196.1	6191.8	389.1	389.2	388.9	53.3	53.3	53.3	99.89	99.89	99.89
FAL04	GR25573	11627047	27.6KV_3P_Y556_ASC	Overhead Line	55.1	730.0000		6193.2	6194.6	6190.3	389.1	389.2	388.9	53.3	53.3	53.3	99.86	99.86	99.86
FAL04	GR25574	11627170	27.6KV_3P_Y556_ASC	Overhead Line	51.4	730.0000		6191.6	6193.0	6188.7	389.1	389.2	388.9	53.3	53.3	53.3	99.84	99.84	99.84
FAL04	GR25575	11627298	27.6KV_3P_Y556_ASC	Overhead Line	52.7	730.0000		6190.1	6191.5	6187.2	389.1	389.2	388.9	53.3	53.3	53.3	99.81	99.81	99.81
FAL04	GR25576	11627325	27.6KV_3P_Y556_ASC	Overhead Line	51.8	730.0000		6188.5	6189.9	6185.6	389.1	389.2	388.9	53.3	53.3	53.3	99.79	99.79	99.79
FAL04	GR25577	11627336	27.6KV_3P_Y556_ASC	Overhead Line	51.9	730.0000		6187.0	6188.4	6184.1	389.1	389.2	388.9	53.3	53.3	53.3	99.76	99.76	99.76
FAL04	GR25578	11627348	27.6KV_3P_Y556_ASC	Overhead Line	51.9	730.0000		6185.5	6186.9	6182.6	389.1	389.2	388.9	53.3	53.3	53.3	99.74	99.74	99.74
FAL04	GR25579	11627354	27.6KV_3P_Y556_ASC	Overhead Line	52.0	730.0000		6184.0	6185.3	6181.1	389.1	389.2	388.9	53.3	53.3	53.3	99.71	99.71	99.71
FAL04	GR25580	11628208	27.6KV_3P_Y556_ASC	Overhead Line	51.2	730.0000		6182.5	6183.8	6179.6	389.1	389.2	388.9	53.3	53.3	53.3	99.69	99.69	99.69
FAL04	GR25581	11628210	27.6KV_3P_Y556_ASC	Overhead Line	49.7	730.0000		6181.0	6182.3	6178.1	389.1	389.2	388.9	53.3	53.3	53.3	99.66	99.66	99.66
FAL04	GR25582	11628212	27.6KV_3P_Y556_ASC	Overhead Line	46.5	730.0000		6179.5	6180.9	6176.6	389.1	389.2	388.9	53.3	53.3	53.3	99.64	99.64	99.64
FAL04	GR25583	11628214	27.6KV_3P_Y556_ASC	Overhead Line	38.3	730.0000		6178.1	6179.5	6175.2	389.1	389.2	388.9	53.3	53.3	53.3	99.62	99.62	99.62
FAL04	GR25584	11628218	27.6KV_3P_Y556_ASC	Overhead Line	40.8	730.0000		6177.0	6178.4	6174.1	389.1	389.2	388.9	53.3	53.3	53.3	99.60	99.60	99.60
FAL04	GR25585	11627826	27.6KV_3P_Y556_ASC	Overhead Line	40.6	730.0000		6175.8	6177.2	6172.9	389.1	389.2	388.9	53.3	53.3	53.3	99.58	99.58	99.58
FAL04	GR25586	11627512	27.6KV_3P_Y556_ASC	Overhead Line	26.7	730.0000		6174.7	6176.0	6171.8	389.1	389.2	388.9	53.3	53.3	53.3	99.57	99.57	99.57
FAL04	GR25587	13174045	27.6KV_3P_Y556_ASC	Overhead Line	50.2	730.0000		6173.9	6175.2	6171.0	389.1	389.2	388.9	53.3	53.3	53.3	99.55	99.55	99.55
FAL04	GR25588	11628230	27.6KV_3P_Y556_ASC	Overhead Line	49.3	730.0000		6172.4	6173.8	6169.5	389.1	389.2	388.9	53.3	53.3	53.3	99.52	99.52	99.52
FAL04	GR25589	11628279	27.6KV_3P_Y556_ASC	Overhead Line	49.9	730.0000		6171.0	6172.3	6168.1	389.1	389.2	388.9	53.3	53.3	53.3	99.50	99.50	99.50
FAL04	GR25590	11627203	27.6KV_3P_Y556_ASC	Overhead Line	50.2	730.0000		6169.5	6170.9	6166.6	389.1	389.2	388.9	53.3	53.3	53.3	99.48	99.48	99.48
FAL04	GR25591	11627202	27.6KV_3P_Y556_ASC	Overhead Line	50.1	730.0000		6168.1	6169.4	6165.2	389.1	389.2	388.9	53.3	53.3	53.3	99.45	99.45	99.45
FAL04	GR25592	11635922	27.6KV_3P_N556_ASC	Overhead Line	49.8	730.0000		6166.6	6168.0	6163.7	389.1	389.2	388.9	53.3	53.3	53.3	99.43	99.43	99.43
FAL04	GR25593	12978929	27.6KV_3P_N556_ASC	Overhead Line	54.0	730.0000		6165.2	6166.5	6162.3	389.1	389.2	388.9	53.3	53.3	53.3	99.40	99.40	99.40
FAL04	GR25594	12978928	27.6KV_3P_N556_ASC	Overhead Line	54.9	730.0000		6163.6	6165.0	6160.7	389.1	389.2	388.9	53.3	53.3	53.3	99.38	99.38	99.38
FAL04	GR25595	12978914	27.6KV_3P_N556_ASC	Overhead Line	54.1	730.0000		6162.0	6163.4	6159.1	389.1	389.2	388.9	53.3	53.3	53.3	99.35	99.35	99.35
FAL04	GR25596	12978896	27.6KV_3P_N556_ASC	Overhead Line	54.5	730.0000		6160.5	6161.8	6157.6	389.1	389.2	388.9	53.3	53.3	53.3	99.33	99.33	99.33
FAL04	GR25597	12978886	27.6KV_3P_N556_ASC	Overhead Line	48.6	730.0000		6158.9	6160.2	6156.0	389.1	389.2	388.9	53.3	53.3	53.3	99.30	99.30	99.30
FAL04	GR25598	13538535	27.6KV_3P_N556_ASC	Overhead Line	51.1	730.0000		6157.5	6158.8	6154.6	389.1	389.2	388.9	53.3	53.3	53.3	99.28	99.28	99.28
FAL04	GR25599	11635930	27.6KV_3P_N556_ASC	Overhead Line	50.9	730.0000		6156.0	6157.4	6153.1	389.1	389.2	388.9	53.3	53.3	53.3	99.26	99.26	99.26
FAL04	GR25600	11645473	27.6KV_3P_Y556_ASC	Overhead Line	51.1	730.0000		6154.5	6155.9	6151.6	389.1	389.2	388.9	53.3	53.3	53.3	99.23	99.23	99.23
FAL04	GR25601	11645483	27.6KV_3P_Y556_ASC	Overhead Line	51.0	730.0000		6153.1	6154.4	6150.2	389.1	389.2	388.9	53.3	53.3	53.3	99.21	99.21	99.21
FAL04	GR25602	11645485	27.6KV_3P_Y556_ASC	Overhead Line	49.5	730.0000		6151.6	6153.0	6148.7	389.1	389.2	388.9	53.3	53.3	53.3	99.19	99.19	99.19
FAL04	GR25603	11645502	27.6KV_3P_Y556_ASC	Overhead Line	46.0	730.0000		6150.2	6151.5	6147.3	389.1	389.2	388.9	53.3	53.3	53.3	99.16	99.16	99.16
FAL04	GR25604	11645505	27.6KV_3P_Y556_ASC	Overhead Line	47.8	730.0000		6148.9	6150.2	6145.9	389.1	389.2	388.9	53.3	53.3	53.3	99.14	99.14	99.14
FAL04	GR25605	11645509	27.6KV_3P_Y556_ASC	Overhead Line	49.2	730.0000		6147.5	6148.8	6144.6	389.1	389.2	388.9	53.3	53.3	53.3	99.12	99.12	99.12
FAL04	GR25606	11645512	27.6KV_3P_Y556_ASC	Overhead Line	55.6	730.0000		6146.1	6147.4	6143.2	389.1	389.2	388.9	53.3	53.3	53.3	99.09	99.09	99.09
FAL04	GR25607	11645516	27.6KV_3P_Y556_ASC	Overhead Line	41.1	730.0000		6144.5	6145.8	6141.6	389.1	389.2	388.9	53.3	53.3	53.3	99.07	99.07	99.07
FAL04	GR25608	11645517	27.6KV_3P_Y556_ASC	Overhead Line	34.3	730.0000		6143.3	6144.6	6140.4	389.1	389.2	388.9	53.3	53.3	53.3	99.06	99.06	99.06
FAL04	GR25609	11645524	27.6KV_3P_Y556_ASC	Overhead Line	35.7	730.0000		6142.3	6143.7	6139.4	389.1	389.2	388.9	53.3	53.3	53.3	99.04	99.04	99.04
FAL04	GR25610	11645525	27.6KV_3P_Y556_ASC	Overhead Line	59.7	730.0000		6141.3	6142.6	6138.4	389.1	389.2	388.9	53.3	53.3	53.3	99.01	99.01	99.01
FAL04	GR25611	11645592	27.6KV_3P_Y556_ASC	Overhead Line	60.8	730.0000		6139.6	6140.9	6136.7	389.1	389.2	388.9	53.3	53.3	53.3	98.99	98.99	98.98
FAL04	GR25612	11645594	27.6KV_3P_Y556_ASC	Overhead Line	63.5	730.0000		6137.9	6139.2	6134.9	389.1	389.2	389.0	53.3	53.3	53.3	98.96	98.96	98.96
FAL04	GR25613	11645603	27.6KV_3P_Y556_ASC	Overhead Line	58.9	730.0000		6136.0	6137.4	6133.1	389.1	389.2	389.0	53.3	53.3	53.3	98.93	98.93	98.93
FAL04	GR25614	11645612	27.6KV_3P_Y556_ASC	Overhead Line	60.1	730.0000		6134.4	6135.7	6131.4	389.1	389.2	389.0	53.3	53.3	53.3	98.90	98.90	98.90
FAL04	GR25615	11645621	27.6KV_3P_Y556_ASC	Overhead Line	60.0	730.0000		6132.6	6134.0	6129.7	389.1	389.2	389.0	53.3	53.3	53.3	98.87	98.87	98.87
FAL04	GR25616	11645754	27.6KV_3P_Y556_ASC	Overhead Line	59.9	730.0000		6130.9	6132.3	6128.0	389.1	389.2	389.0	53.3	53.3	53.3	98.85	98.84	98.84
FAL04	GR25617	11645698	27.6KV_3P_Y556_ASC	Overhead Line	56.1	730.0000		6129.2	6130.6	6126.3	389.1	389.2	389.0	53.3	53.3	53.3	98.82	98.82	98.82
FAL04	GR25618	11645694	27.6KV_3P_Y556_ASC	Overhead Line	63.9	730.0000		6127.6	6129.0	6124.7	389.1	389.2	389.0	53.3	53.3	53.3	98.79	98.79	98.79
FAL04	GR25619	11645688	27.6KV_3P_Y556_ASC	Overhead Line	57.3	730.0000		6125.8	6127.2	6122.9	389.1	389.2	389.0	53.3	53.3	53.3	98.76	98.76	98.76
FAL04	GR25620	11645684	27.6KV_3P_Y556_ASC	Overhead Line	56.5	730.0000		6124.2	6125.5	6121.3	389.1	389.2	389.0	53.3	53.3	53.3	98.74	98.74	98.74
FAL04	GR25621	11645771	27.6KV_3P_Y556_ASC	Overhead Line	58.6	730.0000		6122.6	6123.9	6119.7	389.1	389.2	389.0	53.3	53.3	53.3	98.71	98.71	98.71

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR25622	11646180	27.6KV_3P_Y556_ASC	Overhead Line	59.2	730.0000		6120.9	6122.3	6118.0	389.1	389.2	389.0	53.3	53.3	53.3	98.68	98.68	98.68
FAL04	GR25623	11646181	27.6KV_3P_Y556_ASC	Overhead Line	39.1	730.0000		6119.3	6120.6	6116.3	389.1	389.2	389.0	53.3	53.3	53.3	98.67	98.66	98.66
FAL04	GR25624	12977530	27.6KV_3P_N556_ASC	Overhead Line	22.9	730.0000		6118.2	6119.5	6115.2	389.1	389.2	389.0	53.3	53.3	53.3	98.65	98.65	98.65
FAL04	GR25625	13575403	27.6KV_3P_Y556_AL	Overhead Line	51.1	730.0000		6117.5	6118.8	6114.6	389.1	389.2	389.0	53.3	53.3	53.3	98.63	98.63	98.63
FAL04	GR25626	13575849	27.6KV_3P_Y556_AL	Overhead Line	42.7	730.0000		6116.1	6117.4	6113.1	389.1	389.2	389.0	53.3	53.3	53.3	98.61	98.61	98.61
FAL04	GR25627	13575850	27.6KV_3P_Y556_AL	Overhead Line	53.6	730.0000		6114.9	6116.2	6111.9	389.1	389.2	389.0	53.3	53.3	53.3	98.59	98.59	98.59
FAL04	GR25628	13575851	27.6KV_3P_Y556_AL	Overhead Line	55.1	730.0000		6113.4	6114.7	6110.4	389.1	389.2	389.0	53.3	53.3	53.3	98.56	98.56	98.56
FAL04	GR25629	13575852	27.6KV_3P_Y556_AL	Overhead Line	49.1	730.0000		6111.8	6113.1	6108.9	389.1	389.2	389.0	53.3	53.3	53.3	98.54	98.54	98.54
FAL04	GR25630	13575853	27.6KV_3P_Y556_AL	Overhead Line	50.5	730.0000		6110.4	6111.8	6107.5	389.1	389.2	389.0	53.3	53.3	53.3	98.52	98.52	98.52
FAL04	GR25631	13575854	27.6KV_3P_Y556_AL	Overhead Line	60.5	730.0000		6109.0	6110.3	6106.1	389.1	389.2	389.0	53.3	53.3	53.3	98.49	98.49	98.49
FAL04	GR25632	13575855	27.6KV_3P_Y556_AL	Overhead Line	38.0	730.0000		6107.3	6108.6	6082.5	389.1	389.2	387.6	53.3	53.3	53.1	98.47	98.47	98.47
FAL04	GR25633	13575856	27.6KV_3P_Y556_AL	Overhead Line	38.9	730.0000		6106.2	6107.6	6081.5	389.1	389.2	387.6	53.3	53.3	53.1	98.45	98.45	98.45
FAL04	GR25634	13575857	27.6KV_3P_Y556_AL	Overhead Line	49.0	730.0000		6105.1	6106.5	6080.4	389.1	389.2	387.6	53.3	53.3	53.1	98.43	98.43	98.43
FAL04	GR25635	13575858	27.6KV_3P_Y556_AL	Overhead Line	50.0	730.0000		6103.8	6105.1	6079.0	389.2	389.2	387.6	53.3	53.3	53.1	98.41	98.41	98.41
FAL04	GR25636	13575859	27.6KV_3P_Y556_AL	Overhead Line	53.3	730.0000		6102.3	6103.7	6077.6	389.2	389.2	387.6	53.3	53.3	53.1	98.38	98.38	98.38
FAL04	GR25639	13575543	27.6KV_3P_Y556_AL	Overhead Line	5.0	730.0000		6096.5	6097.9	6071.8	389.2	389.2	387.6	53.3	53.3	53.1	98.31	98.31	98.31
FAL04	GR25640	13575431	27.6KV_3P_Y556_AL	Overhead Line	48.2	730.0000		6096.4	6097.8	6071.7	389.2	389.2	387.6	53.3	53.3	53.1	98.29	98.29	98.29
FAL04	GR25641	13575861	27.6KV_3P_Y556_AL	Overhead Line	50.0	730.0000		6095.0	6096.4	6070.4	389.2	389.2	387.6	53.3	53.3	53.1	98.27	98.27	98.27
FAL04	GR25642	13575862	27.6KV_3P_Y556_AL	Overhead Line	51.0	730.0000		6093.6	6095.0	6069.0	389.2	389.2	387.6	53.3	53.3	53.1	98.24	98.24	98.24
FAL04	GR25643	13575863	27.6KV_3P_Y556_AL	Overhead Line	50.8	730.0000		6092.2	6093.6	6067.6	389.2	389.2	387.6	53.3	53.3	53.1	98.22	98.22	98.22
FAL04	GR25644	13575864	27.6KV_3P_Y556_AL	Overhead Line	49.8	730.0000		6090.8	6092.2	6066.2	389.2	389.2	387.6	53.3	53.3	53.1	98.20	98.20	98.20
FAL04	GR25645	13575865	27.6KV_3P_Y556_AL	Overhead Line	34.8	730.0000		6059.9	6061.4	6035.3	387.3	387.4	385.7	53.1	53.1	52.8	98.18	98.18	98.18
FAL04	GR25646	13575866	27.6KV_3P_Y556_AL	Overhead Line	30.0	730.0000		6044.3	6047.0	6018.0	386.3	386.5	384.7	52.9	52.9	52.7	98.17	98.17	98.17
FAL04	GR25647	13575868	27.6KV_3P_Y556_AL	Overhead Line	50.6	730.0000		6043.5	6046.2	6012.9	386.3	386.5	384.4	52.9	52.9	52.7	98.15	98.15	98.15
FAL04	GR25648	13575869	27.6KV_3P_Y556_AL	Overhead Line	10.6	730.0000		6042.1	6044.8	6011.5	386.3	386.5	384.4	52.9	52.9	52.7	98.14	98.14	98.14
FAL04	GR25649	13575871	27.6KV_3P_Y556_AL	Overhead Line	54.3	730.0000		6041.8	6044.5	6011.2	386.3	386.5	384.4	52.9	52.9	52.7	98.12	98.12	98.12
FAL04	GR25650	13575872	27.6KV_3P_Y556_AL	Overhead Line	48.9	730.0000		6040.3	6043.1	6009.7	386.3	386.5	384.4	52.9	52.9	52.7	98.09	98.10	98.10
FAL04	GR25651	13575873	27.6KV_3P_Y556_AL	Overhead Line	52.0	730.0000		6039.0	6041.7	6008.4	386.3	386.5	384.4	52.9	52.9	52.7	98.07	98.07	98.07
FAL04	GR25652	13575874	27.6KV_3P_Y556_AL	Overhead Line	53.8	730.0000		6037.5	6040.3	6007.0	386.3	386.5	384.4	52.9	52.9	52.7	98.05	98.05	98.05
FAL04	GR25653	13575875	27.6KV_3P_Y556_AL	Overhead Line	47.3	730.0000		6036.1	6038.9	6005.6	386.3	386.5	384.4	52.9	52.9	52.7	98.03	98.03	98.03
FAL04	GR25654	13575876	27.6KV_3P_Y556_AL	Overhead Line	54.8	730.0000		6034.8	6037.6	6004.3	386.3	386.5	384.4	52.9	52.9	52.7	98.00	98.01	98.00
FAL04	GR25655	13575877	27.6KV_3P_Y556_AL	Overhead Line	55.3	730.0000		6033.3	6036.1	6002.8	386.3	386.5	384.4	52.9	52.9	52.7	97.98	97.98	97.98
FAL04	GR25656	13575878	27.6KV_3P_Y556_AL	Overhead Line	54.9	730.0000		6031.8	6034.6	6001.3	386.3	386.5	384.4	52.9	52.9	52.7	97.95	97.96	97.96
FAL04	GR25657	13575879	27.6KV_3P_Y556_AL	Overhead Line	55.3	730.0000		6030.3	6033.1	5999.9	386.3	386.5	384.4	52.9	52.9	52.7	97.93	97.93	97.93
FAL04	GR25658	13575880	27.6KV_3P_Y556_AL	Overhead Line	59.4	730.0000		6028.7	6031.6	5998.4	386.3	386.5	384.4	52.9	52.9	52.7	97.90	97.91	97.91
FAL04	GR25659	13575881	27.6KV_3P_Y556_AL	Overhead Line	53.3	730.0000		6027.1	6030.0	5996.8	386.3	386.5	384.4	52.9	52.9	52.7	97.88	97.88	97.88
FAL04	GR25660	13575882	27.6KV_3P_Y556_AL	Overhead Line	36.8	730.0000		6025.7	6028.6	5995.4	386.3	386.5	384.4	52.9	52.9	52.7	97.86	97.87	97.87
FAL04	GR25661	16506298	27.6KV_3P_N556_ASC	Overhead Line	33.1	730.0000		6024.7	6027.6	5994.4	386.3	386.5	384.4	52.9	52.9	52.7	97.85	97.85	97.85
FAL04	GR25662	16505267	27.6KV_3P_Y556_AL	Overhead Line	24.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.85	97.85	97.85
FAL04	GR25663	18119405	27.6KV_3P_Y556_AL	Overhead Line	27.3	730.0000		6023.8	6026.7	5993.5	386.4	386.5	384.4	52.9	52.9	52.7	97.83	97.84	97.84
FAL04	GR25664	18119407	27.6KV_3P_Y556_AL	Overhead Line	43.7	730.0000		6023.0	6026.0	5992.8	386.4	386.5	384.4	52.9	52.9	52.7	97.81	97.82	97.82
FAL04	GR25665	18119408	27.6KV_3P_Y556_AL	Overhead Line	36.1	730.0000		6021.8	6024.8	5980.7	386.4	386.5	383.7	52.9	52.9	52.6	97.80	97.80	97.80
FAL04	GR25666	18119409	27.6KV_3P_Y556_AL	Overhead Line	35.0	730.0000		6020.9	6023.9	5979.7	386.4	386.5	383.7	52.9	52.9	52.6	97.78	97.79	97.79
FAL04	GR25667	18119411	27.6KV_3P_Y556_AL	Overhead Line	43.8	730.0000		6019.9	6022.9	5978.8	386.4	386.5	383.7	52.9	52.9	52.6	97.76	97.77	97.77
FAL04	GR25668	18119413	27.6KV_3P_Y556_AL	Overhead Line	40.1	730.0000		6018.7	6021.8	5977.6	386.4	386.5	383.7	52.9	52.9	52.6	97.74	97.75	97.75
FAL04	GR25669	18119415	27.6KV_3P_Y556_AL	Overhead Line	39.5	730.0000		6017.6	6020.7	5976.6	386.4	386.5	383.7	52.9	52.9	52.6	97.73	97.74	97.73
FAL04	GR25670	11557916	27.6KV_3P_Y556_ACSR	Overhead Line	58.4	730.0000		6016.6	6019.6	5975.5	386.4	386.5	383.7	52.9	52.9	52.6	97.70	97.71	97.71
FAL04	GR25671	11557979	27.6KV_3P_Y556_ACSR	Overhead Line	7.2	730.0000		6015.0	6018.1	5974.0	386.4	386.5	383.7	52.9	52.9	52.6	97.70	97.71	97.71
FAL04	GR25672	11332662	27.6KV_3P_Y556_ACSR	Overhead Line	56.1	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.70	97.71	97.71
FAL04	GR25673	11557911	27.6KV_3P_Y556_ACSR	Overhead Line	56.2	730.0000		6014.8	6017.9	5973.8	386.4	386.5	383.7	52.9	52.9	52.6	97.67	97.68	97.68
FAL04	GR25674	18133638	27.6KV_3P_Y556_ACSR	Overhead Line	24.1	730.0000		6013.3	6016.4	5972.3	386.4	386.5	383.7	52.9	52.9	52.6	97.66	97.67	97.67
FAL04	GR25675	11557909	27.6KV_3P_Y556_ACSR	Overhead Line	44.7	730.0000		6012.6	6015.8	5971.7	386.4	386.5	383.7	52.9	52.9	52.6	97.64	97.65	97.65
FAL04	GR25676	11557892	27.6KV_3P_Y556_ACSR	Overhead Line	50.6	730.0000		6011.4	6014.6	5970.5	386.4	386.5	383.7	52.9	52.9	52.6	97.62	97.63	97.63
FAL04	GR25677	11510464	27.6KV_3P_Y556_ACSR	Overhead Line	54.4	730.0000		6010.1	6013.3	5969.2	386.4	386.5	383.7	52.9	52.9	52.6	97.60	97.61	97.61
FAL04	GR25678	11510463	27.6KV_3P_Y556_ACSR	Overhead Line	58.2	730.0000		6008.6	6011.8	5967.8	386.4	386.5	383.7	52.9	52.9	52.6	97.57	97.58	97.58
FAL04	GR25679	11510183	27.6KV_3P_N1/0_AL	Overhead Line	3.6	530.0000		42.9	42.9	42.9	2.8	2.8	2.8	0.5	0.5	0.5	97.57	97.58	97.58
FAL04	GR25684	11510452	27.6KV_3P_Y556_ACSR	Overhead Line	58.4	730.0000		5965.6	5968.9	5924.8	383.7	383.9	381.0	52.6	52.6	52.2	97.54	97.56	97.56
FAL04	GR25685	11510451	27.6KV_3P_Y556_ACSR	Overhead Line	57.3	730.0000		5964.1	5967.4	5923.3	383.7	383.9	381.0	52.6	52.6	52.2	97.52	97.53	97.53
FAL04	GR25686	11510450	27.6KV_3P_Y556_ACSR	Overhead Line	59.2	730.0000		5962.6	5965.9	5921.9	383.7	383.9	381.0	52.6	52.6	52.2	97.49	97.51	97.51
FAL04	GR25687	11510449	27.6KV_3P_Y556_ACSR	Overhead Line	52.0	730.0000		5961.0	5964.4	5920.3	383.7	383.9	381.0	52.6	52.6	52.2	97.47	97.48	97.48
FAL04	GR25688	11510447	27.6KV_3P_Y556_ACSR	Overhead Line	61.4	730.0000		5959.6	5963.0	5919.0	383.7	383.9	381.0	52.6	52.6	52.2	97.44	97.46	97.46
FAL04	GR25689	11510446	27.6KV_3P_Y556_ACSR	Overhead Line	60.7	730.0000		5958.0	5961.4	5917.4	383.7	383.9	381.0	52.6	52.6	52.2	97.42	97.43	97.43
FAL04	GR25690	11510445	27.6KV_3P_Y556_ACSR	Overhead Line	61.0	730.0000		5956.4	5959.9	5915.9	383.7	383.9	381.0	52.6	52.6	52.2	97.39	97.41	97.41
FAL04	GR25691	11510443	27.6KV_3P_Y556_ACSR	Overhead Line	52.9	730.0000		5954.8	5958.3	5914.3	383.7	383.9	381.0	52.6	52.6	52.2	97.37	97.38	97.38
FAL04	GR25692	11510423	27.6KV_3P_Y556_ACSR	Overhead Line	51.4	730.0000		5953.4	5956.9	5912.9	383.7	383.9	381.0	52.6	52.6	52.2	97.35	97.36	97.36
FAL04	GR25693	11510404	27.6KV_3P_Y556_ACSR	Overhead Line	53.8	730.0000		5932.5	5937.6	5889.7	382.4	382.7	379.6	52.4	52.4	52.0	97.32	97.34	97.34
FAL04	GR25694	11510403	27.6KV_3P_Y556_ACSR	Overhead Line	52.9	730.0000		5931.1	5936.2	5888.3	382.4	382.7	379.6	52.4	52.4	52.0	97.30	97.32	97.32
FAL04	GR25695	11510384	27.6KV_3P_Y556_ACSR	Overhead Line	52.0	730.0000		5929.7	5934.9	5887.0	382.4	382.7	379.6	52.4	52.4	52.0	97.28	97.30	97.29
FAL04	GR25696	11510383	27.6KV_3P_Y556_ACSR	Overhead Line	51.7	730.0000		5928.3	5933.6	5885.7	382.4	382.7	379.6	52.4	52.4	52.0	97.26	97.27	97.27
FAL04	GR25697	11332504	27.6KV_3P_Y556_ACSR	Overhead Line	50.7	730.0000		5927.0	5932.2	5884.4	382.4	382.7	379.6	52.4	52.4	52.0	97.23	97.25	97.25
FAL04	GR25698	11332501	27.6KV_3P_Y556_AL	Overhead Line	50.3	730.0000		5595.1	5931.0	5883.1	361.1	382.7	379.6	49.5	52.4	52.0	97.21	97.23	97.23
FAL04	GR25699	11332498	27.6KV_3P_Y556_AL	Overhead Line	50.8	730.0000		5594.0	5929.5	5881.9	361.1	382.7	379.6	49.5	52.4	52.0	97.19	97.21	97.21
FAL04	GR25700	11332497	27.6KV_3P_Y556_AL	Overhead Line	38.7	730.0000		5592.8	5928.1	5880.7	361.1	382.7	379.6	49.5	52.4	52.0	97.18	97.19	97.20

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR25701	11332490	27.6KV_3P_Y556_AL	Overhead Line	44.8	730.0000		5591.9	5927.0	5879.8	361.1	382.7	379.6	49.5	52.4	52.0	97.16	97.17	97.18
FAL04	GR25702	11332479	27.6KV_3P_Y556_AL	Overhead Line	40.1	730.0000		5590.9	5925.8	5878.8	361.1	382.7	379.6	49.5	52.4	52.0	97.14	97.15	97.16
FAL04	GR25703	11332478	27.6KV_3P_Y556_AL	Overhead Line	46.1	730.0000		5590.0	5924.7	5877.8	361.1	382.7	379.6	49.5	52.4	52.0	97.13	97.13	97.15
FAL04	GR25704	11332477	27.6KV_3P_Y556_AL	Overhead Line	45.0	730.0000		5589.0	5923.4	5876.8	361.1	382.7	379.6	49.5	52.4	52.0	97.11	97.11	97.13
FAL04	GR25705	11332475	27.6KV_3P_Y556_AL	Overhead Line	59.0	730.0000		5587.9	5922.1	5875.7	361.1	382.7	379.6	49.5	52.4	52.0	97.08	97.08	97.10
FAL04	GR25706	11332650	27.6KV_3P_Y556_AL	Overhead Line	5.9	730.0000		5586.6	5581.5	5578.4	361.1	360.8	360.5	49.5	49.4	49.4	97.08	97.08	97.10
FAL04	GR25707	11332531	27.6KV_3P_Y556_AL	Overhead Line	50.2	730.0000		5586.5	5581.4	5578.3	361.1	360.8	360.5	49.5	49.4	49.4	97.06	97.06	97.08
FAL04	GR25708	11332134	27.6KV_3P_Y556_AL	Overhead Line	64.9	730.0000		5585.3	5580.3	5577.2	361.1	360.8	360.5	49.5	49.4	49.4	97.04	97.03	97.06
FAL04	GR25709	11332140	27.6KV_3P_Y556_AL	Overhead Line	60.2	730.0000		5583.8	5578.8	5575.7	361.1	360.8	360.5	49.5	49.4	49.4	97.01	97.01	97.03
FAL04	GR25710	6520017	27.6KV_3P_Y556_AL	Overhead Line	61.1	730.0000		5582.5	5577.4	5574.3	361.1	360.8	360.5	49.5	49.4	49.4	96.99	96.98	97.01
FAL04	GR25711	6520015	27.6KV_3P_Y556_AL	Overhead Line	62.1	730.0000		5581.1	5576.0	5572.9	361.1	360.8	360.5	49.5	49.4	49.4	96.96	96.96	96.98
FAL04	GR25712	6518696	27.6KV_3P_Y556_AL	Overhead Line	28.0	730.0000		5579.6	5574.6	5571.5	361.1	360.8	360.5	49.5	49.4	49.4	96.95	96.95	96.97
FAL04	GR25713	9005715	27.6KV_3P_Y556_AL	Overhead Line	40.3	730.0000		5579.0	5574.0	5570.8	361.1	360.8	360.5	49.5	49.4	49.4	96.94	96.93	96.96
FAL04	GR25714	6546923	27.6KV_3P_Y556_AL	Overhead Line	55.9	730.0000		5578.1	5573.1	5569.9	361.1	360.8	360.5	49.5	49.4	49.4	96.91	96.91	96.93
FAL04	GR25715	6520008	27.6KV_3P_Y556_AL	Overhead Line	3.1	730.0000		5576.8	5571.8	5568.7	361.1	360.8	360.5	49.5	49.4	49.4	96.91	96.91	96.93
FAL04	GR25716	11271639	27.6KV_3P_Y556_AL	Overhead Line	47.4	730.0000		5576.7	5571.7	5568.6	361.1	360.8	360.5	49.5	49.4	49.4	96.89	96.89	96.91
FAL04	GR25717	6518432	27.6KV_3P_Y556_AL	Overhead Line	10.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.89	96.89	96.91
FAL04	GR25718	6518435	27.6KV_3P_Y556_AL	Overhead Line	5.0	730.0000		5575.7	5570.7	5567.5	361.1	360.8	360.5	49.5	49.4	49.4	96.89	96.89	96.91
FAL04	GR25719	6518434	27.6KV_3P_Y556_AL	Overhead Line	5.0	730.0000		5575.6	5570.5	5567.4	361.1	360.8	360.5	49.5	49.4	49.4	96.89	96.88	96.91
FAL04	GR25720	6518433	27.6KV_3P_Y556_AL	Overhead Line	10.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.89	96.88	96.91
FAL04	GR25721	6520005	27.6KV_3P_Y556_AL	Overhead Line	45.6	730.0000		5575.4	5570.4	5567.3	361.1	360.8	360.5	49.5	49.4	49.4	96.87	96.87	96.89
FAL04	GR25722	6520004	27.6KV_3P_Y556_AL	Overhead Line	60.7	730.0000		5574.4	5569.4	5566.2	361.1	360.8	360.5	49.5	49.4	49.4	96.85	96.84	96.87
FAL04	GR25723	6520002	27.6KV_3P_Y556_AL	Overhead Line	59.2	730.0000		5573.0	5568.0	5564.9	361.1	360.8	360.5	49.5	49.4	49.4	96.82	96.82	96.84
FAL04	GR25724	6547348	27.6KV_3P_Y556_AL	Overhead Line	55.2	730.0000		5571.7	5566.7	5563.5	361.1	360.8	360.5	49.5	49.4	49.4	96.80	96.80	96.82
FAL04	GR25725	6519998	27.6KV_3P_Y556_AL	Overhead Line	48.4	730.0000		5570.4	5565.4	5562.3	361.1	360.8	360.5	49.5	49.4	49.4	96.78	96.78	96.80
FAL04	GR25726	13132634	27.6KV_3P_N556_AL	Overhead Line	47.2	730.0000		1212.4	1496.7	1103.6	78.6	97.1	71.5	10.8	13.3	9.8	96.78	96.77	96.80
FAL04	GR25727	13132631	27.6KV_3P_N556_AL	Overhead Line	56.6	730.0000		1192.7	1496.6	1103.6	77.3	97.1	71.5	10.6	13.3	9.8	96.77	96.77	96.80
FAL04	GR25728	13132619	27.6KV_3P_N556_AL	Overhead Line	52.0	730.0000		1192.6	1496.6	1103.6	77.3	97.1	71.5	10.6	13.3	9.8	96.76	96.76	96.80
FAL04	GR25729	6547344	27.6KV_3P_Y556_AL	Overhead Line	49.9	730.0000		1192.5	1496.5	1103.6	77.3	97.1	71.5	10.6	13.3	9.8	96.76	96.76	96.80
FAL04	GR25730	6519786	27.6KV_3P_Y556_AL	Overhead Line	49.5	730.0000		1192.5	1496.4	1103.6	77.3	97.1	71.5	10.6	13.3	9.8	96.75	96.75	96.79
FAL04	GR25731	6519787	27.6KV_3P_Y556_AL	Overhead Line	47.3	730.0000		1172.8	1496.3	1103.6	76.1	97.1	71.5	10.4	13.3	9.8	96.75	96.75	96.79
FAL04	GR25732	6519788	27.6KV_3P_Y556_AL	Overhead Line	63.8	730.0000		1172.7	1496.3	1103.6	76.1	97.1	71.5	10.4	13.3	9.8	96.74	96.74	96.79
FAL04	GR25733	13474498	27.6KV_3P_Y556_AL	Overhead Line	10.9	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.74	96.74	96.79
FAL04	GR25734	13474501	27.6KV_3P_Y556_AL	Overhead Line	5.0	730.0000		1172.6	1496.2	1103.6	76.1	97.1	71.5	10.4	13.3	9.8	96.74	96.74	96.79
FAL04	GR25735	13474511	27.6KV_3P_Y556_AL	Overhead Line	4.8	730.0000		1172.6	1496.2	1103.5	76.1	97.1	71.5	10.4	13.3	9.8	96.74	96.74	96.79
FAL04	GR25736	13474499	27.6KV_3P_Y556_AL	Overhead Line	41.8	730.0000		1172.6	1496.2	1103.6	76.1	97.1	71.6	10.4	13.3	9.8	96.73	96.74	96.79
FAL04	GR25737	6519790	27.6KV_3P_Y556_AL	Overhead Line	35.0	730.0000		1172.6	1496.1	1103.5	76.1	97.1	71.6	10.4	13.3	9.8	96.73	96.73	96.79
FAL04	GR25738	6519791	27.6KV_3P_Y556_AL	Overhead Line	67.4	730.0000		1172.5	1496.1	1103.5	76.1	97.1	71.6	10.4	13.3	9.8	96.72	96.73	96.79
FAL04	GR25739	19043617	DEFAULT	Overhead Line	42.9	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.72	96.73	96.79
FAL04	GR25740	6519792	27.6KV_3P_Y556_AL	Overhead Line	45.2	730.0000		1172.4	1496.0	1103.5	76.1	97.1	71.6	10.4	13.3	9.8	96.72	96.72	96.79
FAL04	GR25741	6519793	27.6KV_3P_Y556_AL	Overhead Line	50.7	730.0000		1172.4	1495.9	1103.5	76.1	97.1	71.6	10.4	13.3	9.8	96.71	96.72	96.78
FAL04	GR25742	6519794	27.6KV_3P_Y556_AL	Overhead Line	25.0	730.0000		1172.3	1495.9	1103.5	76.1	97.1	71.6	10.4	13.3	9.8	96.71	96.71	96.78
FAL04	GR25743	6519795	27.6KV_3P_Y556_AL	Overhead Line	35.4	730.0000		1172.3	1495.8	1103.5	76.1	97.1	71.6	10.4	13.3	9.8	96.70	96.71	96.78
FAL04	GR25744	6519796	27.6KV_3P_Y556_AL	Overhead Line	47.2	730.0000		1172.2	1495.8	1103.5	76.1	97.1	71.6	10.4	13.3	9.8	96.70	96.71	96.78
FAL04	GR25745	6519797	27.6KV_3P_Y556_AL	Overhead Line	33.8	730.0000		1172.2	1495.7	1103.5	76.1	97.1	71.6	10.4	13.3	9.8	96.70	96.70	96.78
FAL04	GR25746	6519798	27.6KV_3P_Y556_AL	Overhead Line	51.0	730.0000		1172.1	1495.7	1103.5	76.1	97.1	71.6	10.4	13.3	9.8	96.69	96.70	96.78
FAL04	GR25747	6519799	27.6KV_3P_Y556_AL	Overhead Line	52.1	730.0000		1172.1	1495.6	1103.5	76.1	97.1	71.6	10.4	13.3	9.8	96.68	96.69	96.78
FAL04	GR25748	6519800	27.6KV_3P_Y556_AL	Overhead Line	48.9	730.0000		1172.0	1495.5	1103.5	76.1	97.1	71.6	10.4	13.3	9.8	96.68	96.69	96.78
FAL04	GR25749	6519801	27.6KV_3P_Y556_AL	Overhead Line	55.4	730.0000		1172.0	1495.5	1103.5	76.1	97.1	71.6	10.4	13.3	9.8	96.67	96.68	96.77
FAL04	GR25750	6519802	27.6KV_3P_Y556_AL	Overhead Line	55.8	730.0000		1171.9	1495.4	1103.5	76.1	97.1	71.6	10.4	13.3	9.8	96.66	96.68	96.77
FAL04	GR25751	6519803	27.6KV_3P_Y556_AL	Overhead Line	66.4	730.0000		1171.8	1495.3	1103.4	76.1	97.1	71.6	10.4	13.3	9.8	96.66	96.67	96.77
FAL04	GR25752	6519804	27.6KV_3P_Y556_AL	Overhead Line	39.8	730.0000		1171.7	1495.2	1103.4	76.1	97.1	71.6	10.4	13.3	9.8	96.65	96.67	96.77
FAL04	GR25753	16492067	27.6KV_3P_Y556_AL	Overhead Line	24.0	730.0000		1171.7	1495.2	1103.4	76.1	97.1	71.6	10.4	13.3	9.8	96.65	96.66	96.77
FAL04	GR25754	6519805	27.6KV_3P_Y556_AL	Overhead Line	61.0	730.0000		1171.7	1495.1	1103.4	76.1	97.1	71.6	10.4	13.3	9.8	96.64	96.66	96.77
FAL04	GR25755	6519806	27.6KV_3P_Y556_AL	Overhead Line	9.0	730.0000		1171.6	1495.0	1103.4	76.1	97.1	71.6	10.4	13.3	9.8	96.64	96.66	96.77
FAL04	GR25756	13472654	JUMPER	Overhead Line	0.0	600.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.64	96.66	96.77
FAL04	GR25757	13472653	27.6KV_3P_Y556_AL	Overhead Line	3.8	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.64	96.66	96.77
FAL04	GR25758	13472656	27.6KV_3P_Y556_AL	Overhead Line	55.8	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.64	96.66	96.77
FAL04	GR25759	13474200	27.6KV_3P_Y556_AL	Overhead Line	10.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.64	96.66	96.77
FAL04	GR25760	13472655	27.6KV_3P_Y556_AL	Overhead Line	54.6	730.0000		1171.6	1495.0	1103.4	76.1	97.1	71.6	10.4	13.3	9.8	96.64	96.65	96.77
FAL04	GR25761	11427193	27.6KV_3P_Y556_AL	Overhead Line	17.1	730.0000		1171.5	1495.0	1103.4	76.1	97.1	71.6	10.4	13.3	9.8	96.63	96.65	96.77
FAL04	GR25762	11427191	27.6KV_3P_Y556_AL	Overhead Line	38.7	730.0000		1171.5	1494.9	1103.4	76.1	97.1	71.6	10.4	13.3	9.8	96.63	96.65	96.76
FAL04	GR25763	11427189	27.6KV_3P_Y556_AL	Overhead Line	68.4	730.0000		19.6	0.2	0.2	1.3	0.0	0.0	0.2	0.0	0.0	96.63	96.65	96.76
FAL04	GR25764	11427182	27.6KV_3P_Y556_AL	Overhead Line	71.5	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	96.63	96.65	96.76
FAL04	GR25765	11427170	27.6KV_3P_Y556_AL	Overhead Line	40.7	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.63	96.65	96.76
FAL04	GR25766	11573994	27.6KV_3P_Y556_AL	Overhead Line	53.8	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.63	96.65	96.76
FAL04	GR25769	11594273	27.6KV_3P_Y556_AL	Overhead Line	71.1	730.0000		1151.8	1494.9	1103.4	74.8	97.1	71.6	10.2	13.3	9.8	96.62	96.64	96.76
FAL04	GR25770	11594277	27.6KV_3P_Y556_AL	Overhead Line	69.8	730.0000		1151.8	1494.8	1103.4	74.8	97.1	71.6	10.2	13.3	9.8	96.61	96.63	96.76
FAL04	GR25771	11594283	27.6KV_3P_Y556_AL	Overhead Line	65.0	730.0000		1151.7	1494.7	1103.4	74.8	97.1	71.6	10.2	13.3	9.8	96.61	96.63	96.76
FAL04	GR25772	14661333	27.6KV_3P_Y556_AL	Overhead Line	65.1	730.0000		1151.6	1494.6	1103.4	74.8	97.1	71.6	10.2	13.3	9.8	96.60	96.62	96.76
FAL04	GR25773	11594302	27.6KV_3P_Y556_AL	Overhead Line	63.0	730.0000		1131.9	1494.5	1103.4	73.5	97.1	71.6	10.1	13.3	9.8	96.59	96.61	96.76
FAL04	GR25774	11594309	27.6KV_3P_Y556_AL	Overhead Line	63.3	730.0000		1131.8	1494.4	1103.4	73.5	97.1	71.6	10.1	13.3	9.8	96.58	96.61	96.75
FAL04	GR25775	11594317	27.6KV_3P_Y556_AL	Overhead Line	65.1	730.0000		1131.7	1494.3	1103.4	73.5	97.1	71.6	10.1	13.3	9.8	96.58	96.60	96.75

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR25776	6549626	27.6KV_3P_Y556_AL	Overhead Line	51.4	730.0000		1121.9	1494.2	1103.4	72.9	97.1	71.6	10.0	13.3	9.8	96.57	96.59	96.75
FAL04	GR25777	6547958	27.6KV_3P_Y556_AL	Overhead Line	5.7	730.0000		117.9	162.1	241.6	7.7	10.5	15.7	1.0	1.4	2.1	96.57	96.59	96.75
FAL04	GR25812	6549625	27.6KV_3P_Y556_AL	Overhead Line	55.0	730.0000		1003.9	1332.0	861.7	65.2	86.5	55.9	8.9	11.9	7.7	96.57	96.59	96.75
FAL04	GR25813	6549624	27.6KV_3P_Y556_AL	Overhead Line	58.6	730.0000		1003.8	1332.0	861.7	65.2	86.5	55.9	8.9	11.9	7.7	96.56	96.59	96.75
FAL04	GR25814	6549623	27.6KV_3P_Y556_AL	Overhead Line	45.0	730.0000		1003.7	1331.9	861.7	65.2	86.5	55.9	8.9	11.9	7.7	96.55	96.58	96.75
FAL04	GR25815	6549622	27.6KV_3P_Y556_AL	Overhead Line	49.8	730.0000		1003.7	1331.9	861.7	65.2	86.5	55.9	8.9	11.9	7.7	96.55	96.58	96.75
FAL04	GR25816	11390792	27.6KV_3P_Y1/0_ACSR	Overhead Line	6.0	530.0000		373.6	144.0	164.7	24.3	9.4	10.7	4.6	1.8	2.0	96.55	96.58	96.75
FAL04	GR25890	11624424	27.6KV_3P_Y556_AL	Overhead Line	61.1	730.0000		630.0	1187.8	697.1	41.0	77.2	45.2	5.6	10.6	6.2	96.54	96.57	96.75
FAL04	GR25891	6549465	27.6KV_3P_Y556_AL	Overhead Line	59.8	730.0000		630.0	1187.7	697.1	41.0	77.2	45.2	5.6	10.6	6.2	96.54	96.57	96.75
FAL04	GR25892	6549463	27.6KV_3P_Y556_AL	Overhead Line	40.9	730.0000		630.0	1187.7	697.1	41.0	77.2	45.2	5.6	10.6	6.2	96.53	96.56	96.75
FAL04	GR25893	6547353	27.6KV_3P_Y556_AL	Overhead Line	5.0	730.0000		165.0	144.1	316.5	10.7	9.4	20.5	1.5	1.3	2.8	96.53	96.56	96.75
FAL04	GR25903	9006379	27.6KV_3P_Y3/0_AL	Overhead Line	39.5	530.0000		465.0	1043.6	380.6	30.2	67.8	24.7	5.7	12.8	4.7	96.53	96.56	96.75
FAL04	GR25904	13010912	27.6KV_3P_N3/0_AL	Overhead Line	60.0	530.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.53	96.56	96.75
FAL04	GR25905	13009356	27.6KV_3P_Y3/0_AL	Overhead Line	38.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.53	96.56	96.75
FAL04	GR25906	6549464	27.6KV_3P_Y556_AL	Overhead Line	54.4	730.0000		465.0	1043.5	380.7	30.2	67.8	24.7	4.1	9.3	3.4	96.53	96.55	96.76
FAL04	GR25907	13009343	27.6KV_3P_Y556_AL	Overhead Line	13.3	730.0000		288.2	989.5	205.0	18.7	64.3	13.3	2.6	8.8	1.8	96.52	96.55	96.76
FAL04	GR25908	13230724	27.6KV_3P_Y556_AL	Overhead Line	45.3	730.0000		288.2	989.5	205.0	18.7	64.3	13.3	2.6	8.8	1.8	96.52	96.55	96.76
FAL04	GR25909	6544975	27.6KV_3P_Y556_AL	Overhead Line	72.9	730.0000		288.2	989.4	205.0	18.7	64.3	13.3	2.6	8.8	1.8	96.51	96.54	96.77
FAL04	GR25910	6544976	27.6KV_3P_Y556_AL	Overhead Line	65.6	730.0000		288.2	989.4	205.1	18.7	64.3	13.3	2.6	8.8	1.8	96.51	96.54	96.77
FAL04	GR25911	6549596	27.6KV_3P_Y556_AL	Overhead Line	58.8	730.0000		268.5	989.4	205.1	17.5	64.3	13.3	2.4	8.8	1.8	96.50	96.53	96.78
FAL04	GR25912	6544977	27.6KV_3P_Y556_AL	Overhead Line	76.1	730.0000		268.5	989.3	205.1	17.5	64.3	13.3	2.4	8.8	1.8	96.49	96.53	96.78
FAL04	GR25913	6548983	27.6KV_3P_Y556_AL	Overhead Line	59.1	730.0000		268.5	989.3	205.1	17.5	64.3	13.3	2.4	8.8	1.8	96.49	96.52	96.79
FAL04	GR25914	6544978	27.6KV_3P_Y556_AL	Overhead Line	57.5	730.0000		264.6	989.2	205.1	17.2	64.3	13.3	2.4	8.8	1.8	96.48	96.52	96.79
FAL04	GR25915	6544979	27.6KV_3P_Y556_AL	Overhead Line	52.5	730.0000		264.6	989.2	205.2	17.2	64.3	13.3	2.4	8.8	1.8	96.48	96.51	96.80
FAL04	GR25916	6545380	27.6KV_3P_Y556_AL	Overhead Line	51.4	730.0000		264.6	989.2	205.2	17.2	64.3	13.3	2.4	8.8	1.8	96.47	96.51	96.80
FAL04	GR25917	6548819	27.6KV_3P_Y556_AL	Overhead Line	2.8	730.0000		49.0	46.8	52.1	3.2	3.0	3.4	0.4	0.4	0.5	96.47	96.51	96.80
FAL04	GR25922	6548987	27.6KV_3P_Y556_AL	Overhead Line	55.1	730.0000		216.1	943.0	153.6	14.1	61.3	10.0	1.9	8.4	1.4	96.47	96.51	96.80
FAL04	GR25923	6545382	27.6KV_3P_Y556_AL	Overhead Line	52.6	730.0000		216.1	943.0	153.6	14.1	61.3	10.0	1.9	8.4	1.4	96.46	96.50	96.81
FAL04	GR25924	6545384	27.6KV_3P_Y556_AL	Overhead Line	27.4	730.0000		216.1	942.9	153.6	14.1	61.3	10.0	1.9	8.4	1.4	96.46	96.50	96.81
FAL04	GR25925	6545385	27.6KV_3P_Y556_AL	Overhead Line	54.1	730.0000		216.1	942.9	153.6	14.1	61.3	10.0	1.9	8.4	1.4	96.46	96.50	96.82
FAL04	GR25926	6549601	27.6KV_3P_Y556_AL	Overhead Line	52.5	730.0000		216.1	942.9	153.6	14.1	61.3	10.0	1.9	8.4	1.4	96.45	96.49	96.82
FAL04	GR25927	6545387	27.6KV_3P_Y556_AL	Overhead Line	54.9	730.0000		216.1	942.8	153.7	14.1	61.3	10.0	1.9	8.4	1.4	96.45	96.49	96.82
FAL04	GR25928	6545388	27.6KV_3P_Y556_AL	Overhead Line	28.8	730.0000		206.3	942.8	153.7	13.4	61.3	10.0	1.8	8.4	1.4	96.44	96.49	96.83
FAL04	GR25929	18133672	27.6KV_3P_Y556_AL	Overhead Line	3.0	730.0000		206.3	108.1	153.7	13.4	7.0	10.0	1.8	1.0	1.4	96.44	96.49	96.83
FAL04	GR26044	18133674	27.6KV_3P_Y556_AL	Overhead Line	23.0	730.0000		0.1	834.7	0.1	0.0	54.3	0.0	0.0	7.4	0.0	96.44	96.48	96.83
FAL04	GR26045	6545390	27.6KV_3P_Y556_AL	Overhead Line	34.1	730.0000		0.1	834.7	0.1	0.0	54.3	0.0	0.0	7.4	0.0	96.44	96.48	96.83
FAL04	GR26046	6545391	27.6KV_3P_Y556_AL	Overhead Line	31.0	730.0000		0.0	834.7	0.0	0.0	54.3	0.0	0.0	7.4	0.0	96.44	96.48	96.84
FAL04	GR26047	6545392	27.6KV_1P_Y556_AL	Overhead Line	1.1	730.0000			834.7			54.3			7.4			96.48	
FAL04	GR26048	18088713	27.6KV_1P_N556_AL	Overhead Line	3.5	730.0000			72.0			4.7			0.6			96.48	
FAL04	GR26060	18126507	27.6KV_1P_Y556_AL	Overhead Line	22.2	730.0000			762.7			49.6			6.8			96.48	
FAL04	GR26061	6545393	27.6KV_1P_Y556_AL	Overhead Line	54.2	730.0000			762.7			49.6			6.8			96.47	
FAL04	GR26062	13577444	27.6KV_1P_N556_AL	Overhead Line	3.4	730.0000			321.3			20.9			2.9			96.47	
FAL04	GR26117	6545394	27.6KV_1P_Y556_AL	Overhead Line	58.3	730.0000			441.4			28.7			3.9			96.47	
FAL04	GR26118	13490636	27.6KV_1P_Y556_AL	Overhead Line	0.2	730.0000			441.3			28.7			3.9			96.47	
FAL04	GR26119	18088761	27.6KV_1P_N556_AL	Overhead Line	3.7	730.0000			72.0			4.7			0.6			96.47	
FAL04	GR26129	18126511	27.6KV_1P_Y556_AL	Overhead Line	65.0	730.0000			369.3			24.0			3.3			96.47	
FAL04	GR26130	6549619	27.6KV_1P_Y556_AL	Overhead Line	68.1	730.0000			369.3			24.0			3.3			96.47	
FAL04	GR26131	14659142	27.6KV_1P_N1/0_AL	Overhead Line	3.7	530.0000			360.4			23.4			4.4			96.47	
FAL04	GR26199	6547571	27.6KV_1P_Y556_AL	Overhead Line	66.4	730.0000			9.0			0.6			0.1			96.47	
FAL04	GR26200	6548808	27.6KV_1P_Y556_AL	Overhead Line	69.2	730.0000			9.0			0.6			0.1			96.47	
FAL04	GR26201	6548809	27.6KV_1P_Y556_AL	Overhead Line	70.0	730.0000			9.0			0.6			0.1			96.47	
FAL04	GR26202	6548810	27.6KV_1P_Y556_AL	Overhead Line	66.5	730.0000			9.0			0.6			0.1			96.47	
FAL04	GR26211	13475672	27.6KV_3P_N1/0_AL	Overhead Line	4.1	530.0000		176.8	54.0	175.7	11.5	3.5	11.4	2.2	0.7	2.2	96.53	96.55	96.76
FAL04	GR26225	6519807	27.6KV_3P_Y556_AL	Overhead Line	11.2	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.64	96.65	96.77
FAL04	GR26226	13474513	27.6KV_3P_Y556_AL	Overhead Line	11.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.74	96.74	96.79
FAL04	GR26231	13132637	27.6KV_3P_N556_AL	Overhead Line	48.4	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.78	96.78	96.80
FAL04	GR26232	6518018	27.6KV_3P_Y556_AL	Overhead Line	11.2	730.0000		4358.6	4070.3	4459.1	282.6	263.9	289.1	38.7	36.2	39.6	96.78	96.77	96.80
FAL04	GR26233	11293961	27.6KV_3P_Y556_AL	Overhead Line	34.0	730.0000		4358.5	4070.2	4458.9	282.6	263.9	289.1	38.7	36.2	39.6	96.77	96.76	96.79
FAL04	GR26234	11293962	27.6KV_3P_Y556_AL	Overhead Line	54.6	730.0000		3570.8	3514.6	3746.2	231.6	227.9	242.9	31.7	31.2	33.3	96.76	96.75	96.77
FAL04	GR26235	6518022	27.6KV_3P_Y556_AL	Overhead Line	26.7	730.0000		3570.4	3514.1	3745.6	231.6	227.9	242.9	31.7	31.2	33.3	96.75	96.74	96.76
FAL04	GR26236	11562208	27.6KV_3P_Y556_AL	Overhead Line	3.9	730.0000		3570.2	3513.8	3745.3	231.6	227.9	242.9	31.7	31.2	33.3	96.75	96.74	96.76
FAL04	GR26237	11562207	27.6KV_3P_Y556_AL	Overhead Line	7.4	730.0000		3570.1	3513.8	3745.3	231.6	227.9	242.9	31.7	31.2	33.3	96.75	96.74	96.76
FAL04	GR26238	13239242	27.6KV_3P_Y556_AL	Overhead Line	2.4	730.0000		3570.1	3513.7	3745.2	231.6	227.9	242.9	31.7	31.2	33.3	96.75	96.74	96.76
FAL04	GR26239	11562210	27.6KV_3P_Y556_AL	Overhead Line	3.1	730.0000		3570.0	3513.7	3745.1	231.6	227.9	242.9	31.7	31.2	33.3	96.75	96.74	96.76
FAL04	GR26240	6518024	27.6KV_3P_Y556_AL	Overhead Line	36.8	730.0000		3570.0	3513.7	3745.1	231.6	227.9	242.9	31.7	31.2	33.3	96.74	96.73	96.75
FAL04	GR26241	6518026	27.6KV_3P_Y556_AL	Overhead Line	3.2	730.0000		3569.7	3513.3	3744.7	231.6	227.9	242.9	31.7	31.2	33.3	96.74	96.73	96.75
FAL04	GR26242	11611801	27.6KV_3P_Y556_AL	Overhead Line	7.2	730.0000		3400.4	3407.7	3627.2	220.6	221.1	235.3	30.2	30.3	32.2	96.74	96.72	96.74
FAL04	GR26243	13074477	27.6KV_3P_Y556_AL	Overhead Line	45.4	730.0000		3400.3	3407.6	3627.2	220.6	221.1	235.3	30.2	30.3	32.2	96.73	96.71	96.73
FAL04	GR26244	6518028	27.6KV_3P_Y556_AL	Overhead Line	46.9	730.0000		3400.0	3407.2	3626.7	220.6	221.1	235.3	30.2	30.3	32.2	96.72	96.70	96.72
FAL04	GR26245	6518213	27.6KV_3P_Y556_AL	Overhead Line	46.8	730.0000		3399.6	3406.8	3626.3	220.6	221.1	235.3	30.2	30.3	32.2	96.71	96.69	96.71
FAL04	GR26246	6518215	27.6KV_3P_Y556_AL	Overhead Line	41.9	730.0000		3399.3	3406.3	3625.8	220.6	221.1	235.3	30.2	30.3	32.2	96.70	96.67	96.70
FAL04	GR26247	6518217	27.6KV_3P_Y556_AL	Overhead Line	57.9	730.0000		3399.0	3406.0	3625.4	220.6	221.1	235.3	30.2	30.3	32.2	96.68	96.66	96.68
FAL04	GR26248	6518220	27.6KV_3P_Y556_AL	Overhead Line	50.0	730.0000		3398.5	3405.4	3624.8	220.6	221.1	235.3	30.2	30.3	32.2	96.67	96.65	96.67

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR26249	6518222	27.6KV_3P_Y556_AL	Overhead Line	51.5	730.0000		3398.2	3404.9	3624.3	220.6	221.1	235.3	30.2	30.3	32.2	96.66	96.63	96.65
FAL04	GR26250	6517836	27.6KV_3P_Y556_AL	Overhead Line	4.5	730.0000		165.1	165.1	165.1	10.7	10.7	10.7	1.5	1.5	1.5	96.66	96.63	96.65
FAL04	GR26255	6518224	27.6KV_3P_Y556_AL	Overhead Line	57.9	730.0000		3239.7	3246.2	3465.9	210.3	210.8	225.0	28.8	28.9	30.8	96.65	96.62	96.64
FAL04	GR26256	6518228	27.6KV_3P_Y556_AL	Overhead Line	55.8	730.0000		3239.3	3245.7	3465.4	210.3	210.8	225.0	28.8	28.9	30.8	96.64	96.60	96.62
FAL04	GR26257	6518230	27.6KV_3P_Y556_AL	Overhead Line	48.1	730.0000		3239.0	3245.3	3464.9	210.3	210.8	225.0	28.8	28.9	30.8	96.63	96.59	96.61
FAL04	GR26258	6518232	27.6KV_3P_Y556_AL	Overhead Line	55.7	730.0000		3215.3	3221.5	3441.1	208.8	209.3	223.5	28.6	28.7	30.6	96.62	96.58	96.60
FAL04	GR26259	11425906	27.6KV_3P_Y556_AL	Overhead Line	8.4	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.62	96.58	96.60
FAL04	GR26260	11425927	27.6KV_3P_Y556_AL	Overhead Line	1.8	730.0000		2298.4	2065.5	2456.6	149.3	134.2	159.6	20.4	18.4	21.9	96.62	96.58	96.60
FAL04	GR26261	6518234	27.6KV_3P_Y556_AL	Overhead Line	49.1	730.0000		2298.4	2065.4	2456.6	149.3	134.2	159.6	20.4	18.4	21.9	96.61	96.57	96.59
FAL04	GR26262	6518236	27.6KV_3P_Y556_AL	Overhead Line	50.9	730.0000		2298.2	2065.3	2456.3	149.3	134.2	159.6	20.4	18.4	21.9	96.61	96.56	96.58
FAL04	GR26263	6518238	27.6KV_3P_Y556_AL	Overhead Line	49.8	730.0000		2298.1	2065.1	2456.1	149.3	134.2	159.6	20.4	18.4	21.9	96.60	96.55	96.57
FAL04	GR26264	6518248	27.6KV_3P_Y556_AL	Overhead Line	50.0	730.0000		2298.0	2065.0	2455.8	149.3	134.2	159.6	20.4	18.4	21.9	96.59	96.55	96.56
FAL04	GR26265	6518250	27.6KV_3P_Y556_AL	Overhead Line	49.7	730.0000		2297.8	2064.8	2455.6	149.3	134.2	159.6	20.5	18.4	21.9	96.59	96.54	96.55
FAL04	GR26266	6549772	27.6KV_3P_Y556_AL	Overhead Line	50.1	730.0000		2297.7	2064.7	2455.3	149.3	134.2	159.6	20.5	18.4	21.9	96.58	96.53	96.53
FAL04	GR26267	6549773	27.6KV_3P_Y556_AL	Overhead Line	51.3	730.0000		2297.5	2064.5	2455.0	149.3	134.2	159.6	20.5	18.4	21.9	96.57	96.52	96.52
FAL04	GR26268	6549774	27.6KV_3P_Y556_AL	Overhead Line	50.7	730.0000		2297.4	2064.4	2454.8	149.3	134.2	159.6	20.5	18.4	21.9	96.57	96.52	96.51
FAL04	GR26269	6549775	27.6KV_3P_Y556_AL	Overhead Line	46.1	730.0000		2297.3	2064.2	2454.5	149.3	134.2	159.6	20.5	18.4	21.9	96.56	96.51	96.50
FAL04	GR26270	6519091	27.6KV_3P_Y556_AL	Overhead Line	4.5	730.0000		2042.1	1884.4	2377.6	132.7	122.5	154.6	18.2	16.8	21.2	96.56	96.51	96.50
FAL04	GR26271	6548239	27.6KV_3P_Y556_AL	Overhead Line	44.9	730.0000		2042.1	1884.4	2377.6	132.7	122.5	154.6	18.2	16.8	21.2	96.56	96.50	96.49
FAL04	GR26272	11509944	27.6KV_3P_N1/0_AL	Overhead Line	5.9	530.0000		39.4	36.1	44.0	2.6	2.3	2.9	0.5	0.4	0.5	96.56	96.50	96.49
FAL04	GR26277	6548480	27.6KV_3P_Y556_AL	Overhead Line	51.9	730.0000		2002.8	1848.3	2333.4	130.2	120.2	151.8	17.8	16.5	20.8	96.55	96.49	96.48
FAL04	GR26278	6548481	27.6KV_3P_Y556_AL	Overhead Line	53.5	730.0000		1992.9	1848.1	2333.2	129.5	120.2	151.8	17.7	16.5	20.8	96.55	96.48	96.47
FAL04	GR26279	6548482	27.6KV_3P_Y556_AL	Overhead Line	47.3	730.0000		1679.3	1623.5	2037.0	109.2	105.6	132.5	15.0	14.5	18.2	96.54	96.48	96.46
FAL04	GR26280	6548483	27.6KV_3P_Y556_AL	Overhead Line	48.4	730.0000		1679.3	1623.3	2036.8	109.2	105.6	132.5	15.0	14.5	18.2	96.54	96.47	96.46
FAL04	GR26281	6549814	27.6KV_3P_Y556_AL	Overhead Line	50.6	730.0000		1679.2	1623.2	2036.7	109.2	105.6	132.5	15.0	14.5	18.2	96.54	96.46	96.45
FAL04	GR26282	6548484	27.6KV_3P_Y556_AL	Overhead Line	49.6	730.0000		1679.2	1623.1	2036.5	109.2	105.6	132.5	15.0	14.5	18.2	96.53	96.45	96.44
FAL04	GR26283	6518958	27.6KV_3P_Y556_AL	Overhead Line	50.9	730.0000		1679.1	1623.0	2036.3	109.2	105.6	132.5	15.0	14.5	18.2	96.53	96.45	96.43
FAL04	GR26284	6518961	27.6KV_3P_Y556_AL	Overhead Line	48.1	730.0000		1679.1	1622.9	2036.1	109.2	105.6	132.5	15.0	14.5	18.2	96.53	96.44	96.42
FAL04	GR26285	6520160	27.6KV_3P_Y556_AL	Overhead Line	50.8	730.0000		1679.0	1622.8	2036.0	109.2	105.6	132.5	15.0	14.5	18.2	96.52	96.43	96.41
FAL04	GR26286	6546985	27.6KV_3P_Y556_AL	Overhead Line	50.0	730.0000		1679.0	1622.7	2035.8	109.2	105.6	132.5	15.0	14.5	18.2	96.52	96.42	96.41
FAL04	GR26287	6519161	27.6KV_3P_Y556_AL	Overhead Line	50.1	730.0000		1678.9	1622.5	2035.6	109.2	105.6	132.5	15.0	14.5	18.2	96.51	96.42	96.40
FAL04	GR26288	6519326	27.6KV_3P_Y556_AL	Overhead Line	60.1	730.0000		1678.8	1622.4	2035.5	109.2	105.6	132.5	15.0	14.5	18.2	96.51	96.41	96.39
FAL04	GR26289	6546979	27.6KV_3P_Y556_AL	Overhead Line	40.2	730.0000		1678.8	1622.3	2035.3	109.2	105.6	132.5	15.0	14.5	18.2	96.51	96.40	96.38
FAL04	GR26290	6519330	27.6KV_3P_Y556_AL	Overhead Line	50.0	730.0000		1678.7	1622.2	2035.1	109.2	105.6	132.5	15.0	14.5	18.2	96.50	96.39	96.37
FAL04	GR26291	6519357	27.6KV_3P_Y556_AL	Overhead Line	49.5	730.0000		1678.7	1622.1	2035.0	109.2	105.6	132.5	15.0	14.5	18.2	96.50	96.39	96.36
FAL04	GR26292	6548241	27.6KV_3P_Y556_AL	Overhead Line	49.5	730.0000		1678.6	1622.0	2034.8	109.2	105.6	132.5	15.0	14.5	18.2	96.50	96.38	96.36
FAL04	GR26293	6519360	27.6KV_3P_Y556_AL	Overhead Line	49.8	730.0000		1678.6	1621.8	2034.6	109.2	105.6	132.5	15.0	14.5	18.2	96.49	96.37	96.35
FAL04	GR26294	6519762	27.6KV_3P_Y556_AL	Overhead Line	50.1	730.0000		1678.5	1621.7	2034.5	109.2	105.6	132.5	15.0	14.5	18.2	96.49	96.36	96.34
FAL04	GR26295	6519764	27.6KV_3P_Y556_AL	Overhead Line	51.2	730.0000		1413.6	1365.7	1757.7	91.9	88.9	114.5	12.6	12.2	15.7	96.48	96.36	96.33
FAL04	GR26296	6545463	27.6KV_3P_Y556_AL	Overhead Line	46.7	730.0000		1413.6	1365.6	1757.6	91.9	88.9	114.5	12.6	12.2	15.7	96.48	96.35	96.32
FAL04	GR26297	6545465	27.6KV_3P_Y556_AL	Overhead Line	48.0	730.0000		1413.5	1365.6	1757.5	91.9	88.9	114.5	12.6	12.2	15.7	96.48	96.35	96.32
FAL04	GR26298	6549640	27.6KV_3P_Y556_AL	Overhead Line	32.8	730.0000		1413.5	1365.5	1757.4	91.9	88.9	114.5	12.6	12.2	15.7	96.48	96.34	96.31
FAL04	GR26299	13524428	27.6KV_3P_Y556_AL	Overhead Line	6.0	730.0000		1413.5	1365.4	1757.3	91.9	88.9	114.5	12.6	12.2	15.7	96.48	96.34	96.31
FAL04	GR26300	13524427	27.6KV_3P_Y556_AL	Overhead Line	5.8	730.0000		1413.5	1365.4	1757.3	91.9	88.9	114.5	12.6	12.2	15.7	96.48	96.34	96.31
FAL04	GR26301	6545623	27.6KV_3P_Y556_AL	Overhead Line	45.0	730.0000		1413.5	1365.4	1757.3	91.9	88.9	114.5	12.6	12.2	15.7	96.48	96.34	96.31
FAL04	GR26302	11543515	27.6KV_3P_Y556_AL	Overhead Line	51.4	730.0000		1413.5	1365.3	1757.2	91.9	88.9	114.5	12.6	12.2	15.7	96.47	96.33	96.30
FAL04	GR26303	6546075	27.6KV_3P_Y556_AL	Overhead Line	34.5	730.0000		1413.4	1365.3	1757.1	91.9	88.9	114.5	12.6	12.2	15.7	96.47	96.32	96.29
FAL04	GR26304	18999680	27.6KV_3P_Y556_AL	Overhead Line	56.4	730.0000		975.2	760.8	978.4	63.4	49.6	63.8	8.7	6.8	8.7	96.47	96.32	96.29
FAL04	GR26305	18999697	27.6KV_3P_Y556_AL	Overhead Line	6.6	730.0000		975.2	760.8	978.3	63.4	49.6	63.8	8.7	6.8	8.7	96.47	96.32	96.29
FAL04	GR26306	6572829	27.6KV_3P_Y556_AL	Overhead Line	60.4	730.0000		621.7	472.7	736.9	40.4	30.8	48.0	5.5	4.2	6.6	96.47	96.32	96.28
FAL04	GR26307	6544863	27.6KV_3P_Y556_AL	Overhead Line	35.2	730.0000		621.7	472.7	736.9	40.4	30.8	48.0	5.5	4.2	6.6	96.47	96.32	96.28
FAL04	GR26308	11307057	27.6KV_3P_Y556_AL	Overhead Line	3.1	730.0000		621.7	472.7	736.9	40.4	30.8	48.0	5.5	4.2	6.6	96.47	96.32	96.28
FAL04	GR26309	6544101	27.6KV_3P_Y556_AL	Overhead Line	50.6	730.0000		621.7	472.7	736.8	40.4	30.8	48.0	5.5	4.2	6.6	96.47	96.32	96.28
FAL04	GR26310	6549206	27.6KV_3P_Y556_AL	Overhead Line	55.4	730.0000		621.7	472.7	736.8	40.4	30.8	48.0	5.5	4.2	6.6	96.47	96.32	96.27
FAL04	GR26311	6544102	27.6KV_3P_Y556_AL	Overhead Line	54.9	730.0000		621.7	472.7	736.8	40.4	30.8	48.0	5.5	4.2	6.6	96.46	96.31	96.27
FAL04	GR26312	6572826	27.6KV_3P_Y556_AL	Overhead Line	59.1	730.0000		621.7	472.7	736.8	40.4	30.8	48.0	5.5	4.2	6.6	96.46	96.31	96.27
FAL04	GR26313	6544103	27.6KV_3P_Y556_AL	Overhead Line	50.2	730.0000		621.7	472.7	736.8	40.4	30.8	48.0	5.5	4.2	6.6	96.46	96.31	96.26
FAL04	GR26314	6544104	27.6KV_3P_Y556_AL	Overhead Line	52.6	730.0000		621.7	472.7	736.7	40.4	30.8	48.0	5.5	4.2	6.6	96.46	96.31	96.26
FAL04	GR26315	13538480	27.6KV_3P_Y556_AL	Overhead Line	5.1	730.0000		621.8	472.7	736.7	40.4	30.8	48.0	5.5	4.2	6.6	96.46	96.31	96.26
FAL04	GR26316	6547584	27.6KV_3P_Y556_AL	Overhead Line	52.3	730.0000		621.8	472.7	736.7	40.4	30.8	48.0	5.5	4.2	6.6	96.46	96.31	96.25
FAL04	GR26317	6544095	27.6KV_3P_Y556_AL	Overhead Line	55.5	730.0000		621.8	472.7	736.7	40.4	30.8	48.0	5.5	4.2	6.6	96.46	96.30	96.25
FAL04	GR26318	6544093	27.6KV_3P_Y556_AL	Overhead Line	67.6	730.0000		621.8	472.7	736.7	40.5	30.8	48.0	5.5	4.2	6.6	96.46	96.30	96.25
FAL04	GR26319	6544092	27.6KV_3P_Y556_AL	Overhead Line	33.5	730.0000		445.0	328.7	539.0	29.0	21.4	35.1	4.0	2.9	4.8	96.46	96.30	96.24
FAL04	GR26320	6544090	27.6KV_3P_Y556_AL	Overhead Line	3.7	730.0000		445.0	328.7	539.0	29.0	21.4	35.1	4.0	2.9	4.8	96.46	96.30	96.24
FAL04	GR26321	13538442	27.6KV_3P_Y556_AL	Overhead Line	50.8	730.0000		445.0	328.7	539.0	29.0	21.4	35.1	4.0	2.9	4.8	96.46	96.30	96.24
FAL04	GR26322	6544900	27.6KV_3P_Y556_AL	Overhead Line	55.9	730.0000		445.0	328.7	539.0	29.0	21.4	35.1	4.0	2.9	4.8	96.46	96.30	96.24
FAL04	GR26323	6544899	27.6KV_3P_Y556_AL	Overhead Line	53.6	730.0000		445.0	328.7	539.0	29.0	21.4	35.1	4.0	2.9	4.8	96.46	96.30	96.24
FAL04	GR26324	6544898	27.6KV_3P_Y556_AL	Overhead Line	55.0	730.0000		445.0	328.7	539.0	29.0	21.4	35.1	4.0	2.9	4.8	96.46	96.29	96.23
FAL04	GR26325	6544896	27.6KV_3P_Y556_AL	Overhead Line	55.6	730.0000		445.0	328.7	539.0	29.0	21.4	35.1	4.0	2.9	4.8	96.46	96.29	96.23
FAL04	GR26326	6544895	27.6KV_3P_Y556_AL	Overhead Line	54.8	730.0000		445.0	328.7	539.0	29.0	21.4	35.2	4.0	2.9	4.8	96.46	96.29	96.23
FAL04	GR26327	6544894	27.6KV_3P_Y556_AL	Overhead Line	53.9	730.0000		445.0	328.7	539.0	29.0	21.4	35.2	4.0	2.9	4.8	96.46	96.29	96.22
FAL04	GR26328	6544553	27.6KV_3P_Y556_AL	Overhead Line	34.4	730.0000		160.2	139.7	154.4	10.4	9.1	10.1	1.4	1.2	1.4	96.46	96.29	96.22
FAL04	GR26329	6545117	27.6KV_3P_Y556_AL	Overhead Line	3.6	730.0000		137.5	117.0	131.7	8.9	7.6	8.6	1.2	1.0	1.2	96.46	96.29	96.22

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR26330	6547164	27.6KV_3P_Y556_AL	Overhead Line	38.0	730.0000		137.5	117.0	131.7	8.9	7.6	8.6	1.2	1.0	1.2	96.46	96.29	96.22
FAL04	GR26331	6547165	27.6KV_3P_Y556_AL	Overhead Line	42.4	730.0000		137.5	117.0	131.7	8.9	7.6	8.6	1.2	1.0	1.2	96.46	96.29	96.22
FAL04	GR26332	6547113	27.6KV_3P_Y556_AL	Overhead Line	5.7	730.0000		137.5	117.0	131.7	8.9	7.6	8.6	1.2	1.0	1.2	96.46	96.29	96.22
FAL04	GR26368	6547166	27.6KV_3P_Y556_AL	Overhead Line	56.5	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.46	96.29	96.22
FAL04	GR26369	6546251	27.6KV_3P_Y556_AL	Overhead Line	33.2	730.0000		23.6	23.6	23.6	1.5	1.5	1.5	0.2	0.2	0.2	96.46	96.29	96.22
FAL04	GR26370	6546252	27.6KV_3P_Y556_AL	Overhead Line	51.7	730.0000		23.6	23.6	23.6	1.5	1.5	1.5	0.2	0.2	0.2	96.46	96.29	96.22
FAL04	GR26371	6546253	27.6KV_3P_Y556_AL	Overhead Line	9.3	730.0000		23.7	23.7	23.7	1.5	1.5	1.5	0.2	0.2	0.2	96.46	96.29	96.22
FAL04	GR26372	6546254	27.6KV_3P_Y556_AL	Overhead Line	45.3	730.0000		23.7	23.7	23.7	1.5	1.5	1.5	0.2	0.2	0.2	96.46	96.29	96.22
FAL04	GR26373	6546255	27.6KV_3P_Y556_AL	Overhead Line	52.2	730.0000		23.7	23.7	23.7	1.5	1.5	1.5	0.2	0.2	0.2	96.46	96.29	96.22
FAL04	GR26374	6546256	27.6KV_3P_Y556_AL	Overhead Line	52.6	730.0000		23.7	23.7	23.7	1.5	1.5	1.5	0.2	0.2	0.2	96.46	96.29	96.22
FAL04	GR26375	6546257	27.6KV_3P_Y556_AL	Overhead Line	53.5	730.0000		23.7	23.7	23.7	1.5	1.5	1.5	0.2	0.2	0.2	96.46	96.29	96.22
FAL04	GR26376	6572796	27.6KV_3P_Y556_AL	Overhead Line	52.1	730.0000		23.8	23.8	23.8	1.5	1.5	1.5	0.2	0.2	0.2	96.46	96.29	96.22
FAL04	GR26377	6548684	27.6KV_3P_Y556_AL	Overhead Line	52.6	730.0000		23.8	23.8	23.8	1.5	1.6	1.6	0.2	0.2	0.2	96.46	96.29	96.22
FAL04	GR26378	6546258	27.6KV_3P_Y556_AL	Overhead Line	56.4	730.0000		23.8	23.8	23.8	1.5	1.6	1.6	0.2	0.2	0.2	96.46	96.29	96.22
FAL04	GR26379	6546259	27.6KV_3P_Y556_AL	Overhead Line	56.8	730.0000		23.8	23.8	23.8	1.6	1.6	1.6	0.2	0.2	0.2	96.46	96.29	96.22
FAL04	GR26380	6547560	27.6KV_3P_Y556_AL	Overhead Line	52.3	730.0000		23.9	23.9	23.9	1.6	1.6	1.6	0.2	0.2	0.2	96.46	96.29	96.22
FAL04	GR26381	6517594	27.6KV_3P_Y556_AL	Overhead Line	50.2	730.0000		23.9	23.9	23.9	1.6	1.6	1.6	0.2	0.2	0.2	96.46	96.29	96.22
FAL04	GR26387	6546763	27.6KV_3P_Y556_AL	Overhead Line	52.7	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.46	96.29	96.22
FAL04	GR26388	15581311	27.6KV_3P_Y556_AL	Overhead Line	10.8	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.46	96.29	96.22
FAL04	GR26389	6517595	27.6KV_3P_Y556_AL	Overhead Line	7.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.46	96.29	96.22
FAL04	GR26390	6544830	27.6KV_3P_Y556_AL	Overhead Line	53.6	730.0000		285.0	189.1	384.7	18.5	12.3	25.1	2.5	1.7	3.4	96.46	96.29	96.22
FAL04	GR26391	6543704	27.6KV_3P_Y556_AL	Overhead Line	33.3	730.0000		29.5	27.0	33.0	1.9	1.8	2.2	0.3	0.2	0.3	96.46	96.29	96.22
FAL04	GR26392	6543705	27.6KV_3P_Y556_AL	Overhead Line	23.4	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.46	96.29	96.22
FAL04	GR26393	6545129	27.6KV_3P_Y556_AL	Overhead Line	6.2	730.0000		29.5	27.1	33.0	1.9	1.8	2.2	0.3	0.2	0.3	96.46	96.29	96.22
FAL04	GR26398	6549403	27.6KV_3P_Y556_AL	Overhead Line	3.7	730.0000		255.5	162.1	351.7	16.6	10.6	22.9	2.3	1.4	3.1	96.46	96.29	96.22
FAL04	GR26407	6544509	27.6KV_3P_Y556_AL	Overhead Line	10.4	730.0000		176.8	144.0	197.6	11.5	9.4	12.9	1.6	1.3	1.8	96.46	96.30	96.25
FAL04	GR26408	15516519	27.6KV_3P_N1/0_AL	Overhead Line	3.1	530.0000		176.8	144.0	197.6	11.5	9.4	12.9	2.2	1.8	2.4	96.46	96.30	96.25
FAL04	GR26417	9005744	27.6KV_3P_Y556_AL	Overhead Line	58.8	730.0000		353.5	288.1	241.4	23.0	18.8	15.7	3.2	2.6	2.2	96.47	96.32	96.29
FAL04	GR26418	6547708	27.6KV_3P_Y556_AL	Overhead Line	33.7	730.0000		353.5	288.1	241.5	23.0	18.8	15.7	3.2	2.6	2.2	96.47	96.32	96.29
FAL04	GR26419	6547709	27.6KV_3P_Y556_AL	Overhead Line	46.3	730.0000		353.5	288.1	241.5	23.0	18.8	15.7	3.2	2.6	2.2	96.46	96.32	96.29
FAL04	GR26420	9005730	27.6KV_3P_Y556_AL	Overhead Line	54.5	730.0000		353.5	288.1	241.5	23.0	18.8	15.7	3.2	2.6	2.2	96.46	96.32	96.28
FAL04	GR26421	9005684	27.6KV_3P_Y556_AL	Overhead Line	57.5	730.0000		353.5	288.1	241.5	23.0	18.8	15.7	3.2	2.6	2.2	96.46	96.32	96.28
FAL04	GR26422	9005685	27.6KV_3P_Y556_AL	Overhead Line	58.2	730.0000		353.5	288.1	241.5	23.0	18.8	15.7	3.2	2.6	2.2	96.46	96.32	96.28
FAL04	GR26423	9005613	27.6KV_2P_Y556_AL	Overhead Line	2.0	730.0000		324.2	288.2		21.1	18.8		2.9	2.6		96.46	96.32	
FAL04	GR26467	9005686	27.6KV_3P_Y556_AL	Overhead Line	63.8	730.0000		29.4	0.7	241.5	1.9	0.0	15.7	0.3	0.0	2.2	96.46	96.32	96.28
FAL04	GR26468	9006196	27.6KV_3P_Y556_AL	Overhead Line	57.6	730.0000		29.4	0.7	241.5	1.9	0.0	15.7	0.3	0.0	2.2	96.46	96.32	96.28
FAL04	GR26469	9006201	27.6KV_3P_Y556_AL	Overhead Line	60.5	730.0000		29.4	0.6	241.5	1.9	0.0	15.7	0.3	0.0	2.2	96.46	96.32	96.28
FAL04	GR26470	9006202	27.6KV_3P_Y556_AL	Overhead Line	61.0	730.0000		0.5	0.5	241.5	0.0	0.0	15.7	0.0	0.0	2.2	96.47	96.32	96.28
FAL04	GR26471	6518592	27.6KV_3P_Y556_AL	Overhead Line	20.9	730.0000		0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.32	96.28
FAL04	GR26472	6547710	27.6KV_3P_Y556_AL	Overhead Line	47.8	730.0000		0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.32	96.28
FAL04	GR26473	6547711	27.6KV_3P_Y556_AL	Overhead Line	45.7	730.0000		0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.32	96.28
FAL04	GR26474	6548113	27.6KV_3P_Y556_AL	Overhead Line	54.4	730.0000		0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.32	96.28
FAL04	GR26475	11228989	27.6KV_3P_N556_AL	Overhead Line	6.1	730.0000		0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.32	96.28
FAL04	GR26476	11228990	27.6KV_3P_Y556_AL	Overhead Line	42.8	730.0000		0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.32	96.28
FAL04	GR26477	9006307	27.6KV_3P_Y556_AL	Overhead Line	48.3	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.32	96.28
FAL04	GR26478	9006305	27.6KV_3P_Y556_AL	Overhead Line	35.9	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.32	96.28
FAL04	GR26479	6548115	27.6KV_3P_Y556_AL	Overhead Line	68.1	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.32	96.28
FAL04	GR26480	6548116	27.6KV_3P_Y556_AL	Overhead Line	33.0	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.32	96.28
FAL04	GR26481	18127051	27.6KV_3P_N556_AL	Overhead Line	61.8	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.32	96.28
FAL04	GR26482	15449869	27.6KV_3P_Y556_AL	Overhead Line	5.2	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.32	96.28
FAL04	GR26483	11228991	27.6KV_3P_N556_AL	Overhead Line	6.2	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.32	96.28
FAL04	GR26484	9005636	27.6KV_1P_Y1/0_AL	Overhead Line	3.6	230.0000				241.6			15.7			6.8			96.28
FAL04	GR26536	18999683	27.6KV_3P_Y556_AL	Overhead Line	3.6	730.0000		440.4	605.8	779.6	28.7	39.5	50.8	3.9	5.4	7.0	96.47	96.32	96.29
FAL04	GR26537	6548681	27.6KV_3P_Y556_AL	Overhead Line	4.4	730.0000		430.7	605.8	779.6	28.0	39.5	50.8	3.8	5.4	7.0	96.47	96.32	96.29
FAL04	GR26538	18999665	27.6KV_3P_Y556_AL	Overhead Line	39.5	730.0000		430.7	605.7	779.6	28.0	39.5	50.8	3.8	5.4	7.0	96.47	96.32	96.29
FAL04	GR26539	6546078	27.6KV_3P_Y556_AL	Overhead Line	50.1	730.0000		430.7	605.7	779.6	28.0	39.5	50.8	3.8	5.4	7.0	96.47	96.32	96.29
FAL04	GR26540	6546080	27.6KV_3P_Y556_AL	Overhead Line	39.6	730.0000		430.7	605.7	779.6	28.0	39.5	50.8	3.8	5.4	7.0	96.47	96.31	96.29
FAL04	GR26541	6519905	27.6KV_3P_Y556_AL	Overhead Line	11.5	730.0000		104.8	262.4	415.9	6.8	17.1	27.1	0.9	2.3	3.7	96.47	96.31	96.29
FAL04	GR26542	6519914	27.6KV_3P_Y556_AL	Overhead Line	3.8	730.0000		104.8	262.4	415.9	6.8	17.1	27.1	0.9	2.3	3.7	96.47	96.31	96.29
FAL04	GR26543	6545827	27.6KV_3P_Y556_AL	Overhead Line	36.9	730.0000		104.8	262.4	415.9	6.8	17.1	27.1	0.9	2.3	3.7	96.47	96.31	96.29
FAL04	GR26544	6544893	27.6KV_3P_Y556_AL	Overhead Line	5.0	730.0000		104.9	262.5	416.0	6.8	17.1	27.1	0.9	2.3	3.7	96.47	96.31	96.29
FAL04	GR26554	6545829	27.6KV_3P_Y556_AL	Overhead Line	35.9	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.31	96.29
FAL04	GR26555	6546081	27.6KV_3P_Y556_AL	Overhead Line	42.7	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.31	96.29
FAL04	GR26556	6546079	27.6KV_3P_Y556_AL	Overhead Line	52.1	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.31	96.29
FAL04	GR26557	6546082	27.6KV_3P_Y556_AL	Overhead Line	39.9	730.0000		326.4	343.3	363.8	21.2	22.4	23.7	2.9	3.1	3.2	96.47	96.31	96.29
FAL04	GR26558	6545828	27.6KV_3P_Y556_AL	Overhead Line	38.2	730.0000		326.4	343.3	363.8	21.2	22.4	23.7	2.9	3.1	3.2	96.47	96.31	96.29
FAL04	GR26559	14687075	27.6KV_3P_Y556_AL	Overhead Line	16.9	730.0000		104.5	104.5	104.5	6.8	6.8	6.8	0.9	0.9	0.9	96.47	96.31	96.29
FAL04	GR26560	14695718	27.6KV_3P_Y1/0_AL	Overhead Line	0.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.47	96.31	96.29
FAL04	GR26561	14695719	27.6KV_3P_N1/0_AL	Overhead Line	2.8	530.0000		104.6	104.6	104.6	6.8	6.8	6.8	1.3	1.3	1.3	96.47	96.31	96.29
FAL04	GR26566	6544888	27.6KV_3P_Y556_AL	Overhead Line	4.9	730.0000		225.9	243.2	263.6	14.7	15.8	17.2	2.0	2.2	2.4	96.47	96.31	96.29
FAL04	GR26577	6549639	27.6KV_3P_Y556_AL	Overhead Line	9.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.48	96.34	96.31
FAL04	GR26578	6549641	27.6KV_3P_Y556_AL	Overhead Line	9.2	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.48	96.34	96.31
FAL04	GR26579	6547439	27.6KV_3P_Y556_AL	Overhead Line	4.8	730.0000		269.2	260.5	281.3	17.5	17.0	18.3	2.4	2.3	2.5	96.49	96.36	96.34

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR26584	6548646	27.6KV_3P_Y556_AL	Overhead Line	4.5	730.0000		314.2	225.1	296.5	20.4	14.6	19.3	2.8	2.0	2.6	96.55	96.48	96.47
FAL04	GR26656	6549370	27.6KV_3P_Y556_AL	Overhead Line	4.6	730.0000		255.5	180.1	76.8	16.6	11.7	5.0	2.3	1.6	0.7	96.56	96.51	96.50
FAL04	GR26707	11438953	27.6KV_3P_Y556_AL	Overhead Line	62.5	730.0000		917.6	1155.8	985.0	59.6	75.1	64.0	8.2	10.3	8.8	96.62	96.57	96.60
FAL04	GR26708	11425939	27.6KV_3P_Y556_AL	Overhead Line	55.1	730.0000		917.5	1155.7	985.0	59.6	75.1	64.0	8.2	10.3	8.8	96.61	96.57	96.59
FAL04	GR26709	11425942	27.6KV_3P_Y556_AL	Overhead Line	65.5	730.0000		917.5	1155.7	985.0	59.6	75.1	64.0	8.2	10.3	8.8	96.61	96.56	96.59
FAL04	GR26710	11425946	27.6KV_3P_Y556_AL	Overhead Line	39.9	730.0000		917.5	1155.6	984.9	59.6	75.1	64.0	8.2	10.3	8.8	96.60	96.56	96.59
FAL04	GR26711	18119740	27.6KV_3P_Y556_AL	Overhead Line	12.7	730.0000		917.4	1155.6	984.9	59.6	75.1	64.0	8.2	10.3	8.8	96.60	96.55	96.59
FAL04	GR26712	11425949	27.6KV_3P_Y556_AL	Overhead Line	49.2	730.0000		917.4	1155.6	743.3	59.6	75.1	48.3	8.2	10.3	6.6	96.60	96.55	96.59
FAL04	GR26713	11425954	27.6KV_3P_Y556_AL	Overhead Line	66.2	730.0000		897.8	1155.5	743.3	58.3	75.1	48.3	8.0	10.3	6.6	96.59	96.55	96.59
FAL04	GR26714	11425959	27.6KV_3P_Y556_AL	Overhead Line	69.8	730.0000		570.1	855.4	377.1	37.0	55.6	24.5	5.1	7.6	3.4	96.59	96.54	96.59
FAL04	GR26715	11425965	27.6KV_3P_Y556_AL	Overhead Line	59.4	730.0000		570.1	855.4	377.1	37.0	55.6	24.5	5.1	7.6	3.4	96.58	96.54	96.59
FAL04	GR26716	11425974	27.6KV_3P_Y556_AL	Overhead Line	60.0	730.0000		570.1	855.4	377.1	37.0	55.6	24.5	5.1	7.6	3.4	96.58	96.53	96.59
FAL04	GR26717	11425977	27.6KV_3P_Y556_AL	Overhead Line	59.8	730.0000		399.6	699.3	186.6	26.0	45.5	12.1	3.6	6.2	1.7	96.57	96.53	96.59
FAL04	GR26718	11425980	27.6KV_3P_Y556_AL	Overhead Line	59.4	730.0000		399.6	699.3	186.6	26.0	45.5	12.1	3.6	6.2	1.7	96.57	96.53	96.60
FAL04	GR26719	11425983	27.6KV_3P_Y556_AL	Overhead Line	75.2	730.0000		157.1	162.1	153.7	10.2	10.5	10.0	1.4	1.4	1.4	96.57	96.53	96.60
FAL04	GR26720	11425989	27.6KV_3P_Y556_AL	Overhead Line	33.0	730.0000		117.8	126.0	109.7	7.7	8.2	7.1	1.0	1.1	1.0	96.57	96.53	96.60
FAL04	GR26721	11425991	27.6KV_3P_Y556_AL	Overhead Line	47.8	730.0000		117.8	126.0	109.7	7.7	8.2	7.1	1.0	1.1	1.0	96.57	96.53	96.60
FAL04	GR26722	11425993	27.6KV_3P_Y556_AL	Overhead Line	47.2	730.0000		98.2	126.0	109.7	6.4	8.2	7.1	0.9	1.1	1.0	96.56	96.53	96.60
FAL04	GR26723	11425996	27.6KV_3P_Y556_AL	Overhead Line	65.3	730.0000		98.2	126.0	109.8	6.4	8.2	7.1	0.9	1.1	1.0	96.56	96.53	96.60
FAL04	GR26724	11426010	27.6KV_3P_Y556_AL	Overhead Line	60.8	730.0000		98.2	126.0	109.8	6.4	8.2	7.1	0.9	1.1	1.0	96.56	96.53	96.60
FAL04	GR26725	11426011	27.6KV_3P_Y556_AL	Overhead Line	65.4	730.0000		98.2	0.1	109.8	6.4	0.0	7.1	0.9	0.0	1.0	96.56	96.53	96.59
FAL04	GR26726	11426019	27.6KV_3P_Y556_AL	Overhead Line	3.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.56	96.53	96.59
FAL04	GR26784	11561314	27.6KV_1P_N1/0_AL	Overhead Line	5.2	530.0000			126.0			8.2			1.5			96.53	
FAL04	GR26823	11593720	27.6KV_3P_N556_AL	Overhead Line	3.2	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.57	96.53	96.60
FAL04	GR26829	11567311	27.6KV_3P_N556_AL	Overhead Line	2.9	730.0000		39.4	36.1	44.0	2.6	2.3	2.9	0.4	0.3	0.4	96.57	96.53	96.60
FAL04	GR26854	11620364	27.6KV_3P_N1/0_AL	Overhead Line	2.6	530.0000		170.4	156.2	190.5	11.1	10.2	12.4	2.1	1.9	2.3	96.58	96.53	96.59
FAL04	GR26873	11621665	27.6KV_3P_N1/0_AL	Overhead Line	4.0	530.0000		327.6	300.3	366.2	21.3	19.5	23.8	4.0	3.7	4.5	96.59	96.55	96.59
FAL04	GR26895	13548041	27.6KV_1P_Y1/0_AL	Overhead Line	4.4	230.0000				241.6			15.7			6.8			96.59
FAL04	GR26950	6546679	27.6KV_3P_Y556_AL	Overhead Line	5.8	730.0000		169.5	106.1	117.9	11.0	6.9	7.7	1.5	0.9	1.0	96.74	96.73	96.75
FAL04	GR26979	6518005	27.6KV_3P_Y556_AL	Overhead Line	12.7	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.75	96.74	96.76
FAL04	GR26980	6518004	27.6KV_3P_Y556_AL	Overhead Line	13.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.75	96.74	96.76
FAL04	GR26981	13132330	27.6KV_3P_Y556_AL	Overhead Line	56.8	730.0000		787.2	555.1	712.2	51.1	36.0	46.2	7.0	4.9	6.3	96.77	96.76	96.78
FAL04	GR26982	13132325	27.6KV_3P_Y556_AL	Overhead Line	59.7	730.0000		787.2	555.1	712.2	51.1	36.0	46.2	7.0	4.9	6.3	96.76	96.76	96.78
FAL04	GR26983	13134514	27.6KV_3P_Y556_AL	Overhead Line	52.5	730.0000		787.2	555.1	712.1	51.1	36.0	46.2	7.0	4.9	6.3	96.76	96.76	96.77
FAL04	GR26984	13132322	27.6KV_3P_Y556_AL	Overhead Line	64.9	730.0000		787.2	555.1	712.1	51.1	36.0	46.2	7.0	4.9	6.3	96.76	96.76	96.77
FAL04	GR26985	13132319	27.6KV_3P_Y556_AL	Overhead Line	43.1	730.0000		706.2	473.9	631.0	45.8	30.7	40.9	6.3	4.2	5.6	96.76	96.76	96.76
FAL04	GR26986	13132316	27.6KV_3P_Y556_AL	Overhead Line	49.4	730.0000		706.2	473.9	631.0	45.8	30.7	40.9	6.3	4.2	5.6	96.76	96.76	96.76
FAL04	GR26987	13132312	27.6KV_3P_Y556_AL	Overhead Line	52.1	730.0000		706.2	473.9	631.0	45.8	30.7	40.9	6.3	4.2	5.6	96.75	96.75	96.76
FAL04	GR26988	13132307	27.6KV_3P_Y556_AL	Overhead Line	43.2	730.0000		490.1	273.3	392.9	31.8	17.7	25.5	4.4	2.4	3.5	96.75	96.75	96.75
FAL04	GR26989	13132304	27.6KV_3P_Y556_AL	Overhead Line	54.4	730.0000		490.1	273.3	392.9	31.8	17.7	25.5	4.4	2.4	3.5	96.75	96.75	96.75
FAL04	GR26990	13138854	27.6KV_3P_Y556_AL	Overhead Line	52.4	730.0000		490.1	273.3	392.9	31.8	17.7	25.5	4.4	2.4	3.5	96.75	96.75	96.75
FAL04	GR26991	13132297	27.6KV_3P_Y556_AL	Overhead Line	28.0	730.0000		114.4	59.9	73.1	7.4	3.9	4.7	1.0	0.5	0.6	96.75	96.75	96.75
FAL04	GR26992	13132294	27.6KV_3P_Y556_AL	Overhead Line	59.8	730.0000		94.8	59.9	73.1	6.1	3.9	4.7	0.8	0.5	0.6	96.75	96.75	96.75
FAL04	GR26993	13132291	27.6KV_3P_Y556_AL	Overhead Line	68.5	730.0000		29.3	1.1	1.1	1.9	0.1	0.1	0.3	0.0	0.0	96.75	96.75	96.75
FAL04	GR26994	13132288	27.6KV_3P_Y556_AL	Overhead Line	49.9	730.0000		29.3	1.0	1.0	1.9	0.1	0.1	0.3	0.0	0.0	96.75	96.76	96.75
FAL04	GR26995	13132285	27.6KV_3P_Y556_AL	Overhead Line	51.4	730.0000		29.3	1.0	1.0	1.9	0.1	0.1	0.3	0.0	0.0	96.75	96.76	96.75
FAL04	GR26996	13132282	27.6KV_3P_Y556_AL	Overhead Line	55.0	730.0000		29.3	0.9	0.9	1.9	0.1	0.1	0.3	0.0	0.0	96.75	96.76	96.75
FAL04	GR26997	13132279	27.6KV_3P_Y556_AL	Overhead Line	21.7	730.0000		9.7	0.9	0.9	0.6	0.1	0.1	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR26998	13132276	27.6KV_3P_Y556_AL	Overhead Line	29.3	730.0000		9.7	0.9	0.9	0.6	0.1	0.1	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR26999	13132273	27.6KV_3P_Y556_AL	Overhead Line	54.6	730.0000		9.7	0.8	0.8	0.6	0.1	0.1	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR27000	13132270	27.6KV_3P_Y556_AL	Overhead Line	51.9	730.0000		9.7	0.8	0.8	0.6	0.1	0.1	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR27001	13132267	27.6KV_3P_Y556_AL	Overhead Line	50.2	730.0000		9.7	0.7	0.7	0.6	0.0	0.0	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR27002	16374528	27.6KV_3P_Y556_AL	Overhead Line	21.1	730.0000		9.7	0.7	0.7	0.6	0.0	0.0	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR27003	13132263	27.6KV_3P_Y556_AL	Overhead Line	34.2	730.0000		9.7	0.6	0.6	0.6	0.0	0.0	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR27004	13132260	27.6KV_3P_Y556_AL	Overhead Line	45.7	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.75	96.76	96.75
FAL04	GR27005	13132538	27.6KV_3P_Y556_AL	Overhead Line	45.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.75	96.76	96.75
FAL04	GR27006	13132572	27.6KV_3P_Y556_AL	Overhead Line	14.0	730.0000		9.7	0.5	0.5	0.6	0.0	0.0	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR27007	6548477	27.6KV_3P_Y556_AL	Overhead Line	34.0	730.0000		9.7	0.5	0.5	0.6	0.0	0.0	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR27008	11594178	27.6KV_3P_Y556_AL	Overhead Line	50.7	730.0000		9.7	0.5	0.5	0.6	0.0	0.0	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR27009	12941300	27.6KV_3P_Y556_AL	Overhead Line	52.7	730.0000		9.7	0.4	0.4	0.6	0.0	0.0	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR27010	12941293	27.6KV_3P_Y556_AL	Overhead Line	51.7	730.0000		9.7	0.4	0.4	0.6	0.0	0.0	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR27011	12941290	27.6KV_3P_Y556_AL	Overhead Line	51.8	730.0000		9.8	0.3	0.3	0.6	0.0	0.0	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR27012	12941289	27.6KV_3P_Y556_AL	Overhead Line	60.5	730.0000		9.8	0.3	0.3	0.6	0.0	0.0	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR27013	11594444	27.6KV_3P_Y556_AL	Overhead Line	62.7	730.0000		9.8	0.2	0.2	0.6	0.0	0.0	0.1	0.0	0.0	96.75	96.76	96.75
FAL04	GR27014	11594439	27.6KV_3P_Y556_AL	Overhead Line	32.6	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.75	96.76	96.75
FAL04	GR27015	11594438	27.6KV_3P_Y556_AL	Overhead Line	35.5	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.75	96.76	96.75
FAL04	GR27016	11594435	27.6KV_3P_Y556_AL	Overhead Line	31.0	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.75	96.76	96.75
FAL04	GR27017	11594432	27.6KV_3P_Y556_AL	Overhead Line	19.1	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.75	96.76	96.75
FAL04	GR27018	13003042	27.6KV_3P_Y556_AL	Overhead Line	6.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.75	96.76	96.75
FAL04	GR27019	6548699	27.6KV_3P_Y556_AL	Overhead Line	7.8	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.75	96.76	96.75
FAL04	GR27024	14717516	27.6KV_3P_N1/0_AL	Overhead Line	8.5	530.0000		65.5	60.1	73.2	4.2	3.9	4.8	0.8	0.7	0.9	96.75	96.75	96.75
FAL04	GR27031	13261256	27.6KV_3P_Y556_AL	Overhead Line	23.3	730.0000		346.2	186.5	286.9	22.5	12.1	18.6	3.1	1.7	2.5	96.75	96.75	96.75
FAL04	GR27032	6547382	27.6KV_3P_Y556_AL	Overhead Line	47.8	730.0000		346.2	186.5	286.9	22.5	12.1	18.6	3.1	1.7	2.5	96.75	96.75	96.75

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR27033	11605846	27.6KV_3P_N556_AL	Overhead Line	46.0	730.0000		243.6	90.0	175.6	15.8	5.8	11.4	2.2	0.8	1.6	96.75	96.75	96.74
FAL04	GR27103	11607094	27.6KV_3P_N556_AL	Overhead Line	4.0	730.0000		102.9	96.8	111.6	6.7	6.3	7.2	0.9	0.9	1.0	96.75	96.75	96.75
FAL04	GR27108	14718176	27.6KV_3P_N1/0_AL	Overhead Line	43.6	530.0000		29.5	27.0	33.0	1.9	1.8	2.1	0.4	0.3	0.4	96.75	96.75	96.75
FAL04	GR27115	18042853	27.6KV_3P_Y556_AACSR	Overhead Line	5.8	730.0000		216.3	200.7	238.2	14.0	13.0	15.4	1.9	1.8	2.1	96.75	96.75	96.76
FAL04	GR27120	6545310	27.6KV_3P_Y556_AL	Overhead Line	3.4	730.0000		84.4	84.4	84.4	5.5	5.5	5.5	0.7	0.7	0.7	96.76	96.76	96.77
FAL04	GR27125	11519463	27.6KV_2P_N1/0_AL	Overhead Line	7.6	530.0000			339.6	296.4		22.0	19.2		4.1	3.6		97.08	97.10
FAL04	GR27134	11521196	27.6KV_1P_N1/0_AL	Overhead Line	7.3	530.0000		331.1			21.4			4.0			97.23		
FAL04	GR27167	11575390	27.6KV_3P_N556_ACSR	Overhead Line	3.7	730.0000		19.6	18.0	21.9	1.3	1.2	1.4	0.2	0.2	0.2	97.35	97.36	97.36
FAL04	GR27182	16506231	27.6KV_3P_N556_AL	Overhead Line	5.7	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.64	97.65	97.65
FAL04	GR27183	18043225	27.6KV_3P_N556_AL	Overhead Line	22.4	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.64	97.65	97.65
FAL04	GR27184	17237231	27.6KV_3P_N556_AL	Overhead Line	20.2	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.64	97.65	97.65
FAL04	GR27185	18043222	27.6KV_3P_N556_AL	Overhead Line	45.2	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.64	97.65	97.65
FAL04	GR27186	16505454	27.6KV_3P_N556_AL	Overhead Line	36.7	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.64	97.65	97.65
FAL04	GR27187	11557978	27.6KV_3P_Y556_ACSR	Overhead Line	10.9	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.70	97.71	97.71
FAL04	GR27194	6518388	27.6KV_3P_Y336_AL	Overhead Line	16.9	530.0000		30.4	30.4	30.4	1.9	1.9	1.9	0.4	0.4	0.4	98.20	98.20	98.20
FAL04	GR27195	6518173	27.6KV_3P_Y336_AL	Overhead Line	55.5	530.0000		30.4	30.4	30.4	1.9	1.9	1.9	0.4	0.4	0.4	98.20	98.20	98.20
FAL04	GR27196	6518174	27.6KV_3P_Y336_AL	Overhead Line	53.8	530.0000		30.5	30.5	30.5	1.9	1.9	1.9	0.4	0.4	0.4	98.20	98.20	98.20
FAL04	GR27199	13583024	27.6KV_3P_Y556_AL	Overhead Line	19.1	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.31	98.31	98.31
FAL04	GR27200	13582905	27.6KV_3P_Y556_AL	Overhead Line	22.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.38	98.38	98.38
FAL04	GR27203	18994630	27.6KV_3P_N556_ASC	Overhead Line	2.7	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.65	98.65	98.65
FAL04	GR27204	13181132	27.6KV_3P_Y556_ACSR	Overhead Line	7.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.76	98.76	98.76
FAL04	GR27205	11627800	27.6KV_3P_N556_AL	Overhead Line	37.8	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.58	99.58	99.58
FAL04	GR27206	11627778	27.6KV_3P_N556_AL	Overhead Line	4.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.58	99.58	99.58
FAL04	GR27207	11627799	27.6KV_3P_N556_AL	Overhead Line	9.1	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.58	99.58	99.58
FAL04	GR25682	TP6862-11427786	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	42.9	42.9	42.9	2.8	2.8	2.8	42.2	42.2	42.2	95.93	95.94	95.94
FAL04	GR25767	X41202-11575706	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.97		
FAL04	GR25781	TP5328-1664873	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.99	
FAL04	GR25787	TP5306-1677072	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			96.01
FAL04	GR25792	TP5302-1677073	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			96.00
FAL04	GR25797	TP5303-1677074	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.99
FAL04	GR25802	TP5304-1677075	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.99
FAL04	GR25807	TP5305-1677076	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.99
FAL04	GR25820	TP5693-11390795	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.98	
FAL04	GR25825	TP5692-11390836	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.98	
FAL04	GR25830	TP5691-11390840	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.97	
FAL04	GR25835	TP5685-11390841	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.97	
FAL04	GR25840	TP5686-11390858	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.96	
FAL04	GR25845	TP5687-11390860	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.96	
FAL04	GR25850	TP6606-11309986	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	65.6			4.3			39.0			95.89		
FAL04	GR25861	TP6940-11447947	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.6			39.0			95.85		
FAL04	GR25874	TP6943-11505161	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.6			39.0			95.83		
FAL04	GR25876	TP6942-11505159	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.6			39.0			95.84		
FAL04	GR25878	TP6941-11505160	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.6			39.0			95.84		
FAL04	GR25880	TP6939-11592231	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	65.6			4.3			39.0			95.87		
FAL04	GR25882	TP6938-11592232	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	65.6			4.3			39.0			95.87		
FAL04	GR25886	TP6607-11309994	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.8			43.6			96.00
FAL04	GR25898	TP5342-1664879	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.87		
FAL04	GR25920	TP2636-1696291	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	49.0	46.8	52.1	3.2	3.0	3.4	48.3	46.1	51.3	94.99	95.09	95.26
FAL04	GR25933	TP2435-1686985	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			96.08
FAL04	GR25938	TP2434-1678992	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			96.07
FAL04	GR25943	TP2433-1679037	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			96.07
FAL04	GR25948	TP2432-1679003	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			96.07
FAL04	GR25953	TP2431-1678995	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			96.06
FAL04	GR25958	TP2430-1678982	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			96.06
FAL04	GR25963	TP2437-1679145	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			96.06
FAL04	GR25969	TP2445-1679211	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.77		
FAL04	GR25974	TP2444-1679210	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.76		
FAL04	GR25979	TP2443-1678181	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.6			39.0			95.75		
FAL04	GR25984	TP2442-1679171	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.74		
FAL04	GR25989	TP2441-1678182	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.6			39.0			95.73		
FAL04	GR25994	TP2440-1679154	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.72		
FAL04	GR25999	TP2439-1679272	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	29.5			1.9			39.0			95.72		
FAL04	GR26006	TP5384-1677158	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.71		
FAL04	GR26012	TP2438-1679063	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.88	
FAL04	GR26021	TP2436-1679289	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.87	
FAL04	GR26027	TP5391-1677169	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.86	
FAL04	GR26032	TP5390-1677163	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.85	
FAL04	GR26037	TP5389-1677162	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.85	
FAL04	GR26042	TP5388-1665171	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.85	
FAL04	GR26051	TP12901-18088719	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		36.0			2.3			35.8			95.88	
FAL04	GR26056	TP12902-18088726	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		36.0			2.3			35.8			95.88	
FAL04	GR26065	TP10411-13577495	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		36.0			2.3			35.8			95.87	
FAL04	GR26070	TP10151-13577515	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		36.0			2.3			35.8			95.86	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR26075	TP10152-13577516	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		60.1			3.9			35.8			95.86	
FAL04	GR26080	TP10153-13577517	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.84	
FAL04	GR26085	TP10154-13577518	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.84	
FAL04	GR26090	TP10155-13577520	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.83	
FAL04	GR26095	TP10156-13577523	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.83	
FAL04	GR26100	TP10402-14659934	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.82	
FAL04	GR26105	TP10981-15478582	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.82	
FAL04	GR26110	TP10980-15478583	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.82	
FAL04	GR26115	TP10979-15478584	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.75	
FAL04	GR26122	TP12904-18088733	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		36.0			2.3			35.8			95.87	
FAL04	GR26127	TP12903-18088732	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		36.0			2.3			35.8			95.87	
FAL04	GR26134	TP10397-14658809	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.86	
FAL04	GR26139	TP10441-14671405	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.84	
FAL04	GR26144	TP10442-14671431	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.82	
FAL04	GR26149	TP10443-14671478	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.81	
FAL04	GR26154	TP10444-14671592	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.81	
FAL04	GR26159	TP10445-14672201	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.80	
FAL04	GR26164	TP10403-14658858	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.78	
FAL04	GR26169	TP10398-14659365	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.77	
FAL04	GR26174	TP10399-14659483	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.77	
FAL04	GR26179	TP10400-14659651	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.76	
FAL04	GR26184	TP10401-14659837	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.76	
FAL04	GR26189	TP10977-15478587	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.75	
FAL04	GR26194	TP10978-15478585	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.75	
FAL04	GR26203	X33059-1660841	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		9.0			0.6			35.8			96.14	
FAL04	GR26205	X33070-1661828	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	9.8			0.6			39.0			96.07		
FAL04	GR26207	X33062-1661633	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	3.9			0.3			39.0			95.83		
FAL04	GR26209	X4719-6572973	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.85		
FAL04	GR26217	TP5375-1677149	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.85		
FAL04	GR26221	X37811-1660738	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	9.8			0.6			39.0			96.20		
FAL04	GR26223	X37808-1662065	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.94		
FAL04	GR26227	X38688-13132592	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.09		
FAL04	GR26229	X45370-13134826	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.12		
FAL04	GR26253	TP8580-1665032	27.6KV_347V/600V_1000_3P	Two-Winding Transformer	0.0		1000.00	165.1	165.1	165.1	10.7	10.7	10.7	48.6	48.6	48.6	94.76	94.73	94.75
FAL04	GR26275	TP6675-11432199	27.6KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	39.4	36.1	44.0	2.6	2.3	2.9	39.0	35.8	43.6	95.71	95.74	95.55
FAL04	GR26336	TP6471-1664513	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.79		
FAL04	GR26341	TP6472-1664514	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.79		
FAL04	GR26346	TP6473-1664515	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	29.5			1.9			39.0			95.79		
FAL04	GR26351	TP6474-1664516	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	29.5			1.9			39.0			95.79		
FAL04	GR26356	TP6475-1664517	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.79		
FAL04	GR26363	NPTE2715-1664518	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.69	
FAL04	GR26385	TP10305-14636270	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	23.9	23.9	23.9	1.6	1.6	1.6	23.7	23.7	23.7	95.53	95.37	95.30
FAL04	GR26396	NPTE3012-1664772	27.6KV_120V/208V_225_3P	Two-Winding Transformer	0.0		225.00	29.5	27.1	33.0	1.9	1.8	2.2	39.0	35.8	43.6	95.61	95.52	95.27
FAL04	GR26402	NPTE2565-1664375	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.79		
FAL04	GR26413	NPTE2856-1664634	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.70	
FAL04	GR26427	TP3400-1702372	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.6			39.0			95.79		
FAL04	GR26432	TP3475-1702126	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.6			39.0			95.77		
FAL04	GR26437	TP3476-1697010	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.6			39.0			95.77		
FAL04	GR26442	TP3401-1698422	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.77		
FAL04	GR26447	TP3402-1700828	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.76		
FAL04	GR26452	TP3403-10000243	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.76		
FAL04	GR26458	TP3406-1702378	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.72	
FAL04	GR26463	TP3407-1701843	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.71	
FAL04	GR26487	TP3429-11218536	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.9			43.6			95.53
FAL04	GR26492	TP4893-11233818	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.52
FAL04	GR26497	TP4892-11233823	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.51
FAL04	GR26502	TP4891-11234209	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.50
FAL04	GR26507	TP4889-11237996	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.50
FAL04	GR26512	TP4890-11251514	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.50
FAL04	GR26517	TP4888-11264933	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.49
FAL04	GR26522	TP4887-11266840	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.49
FAL04	GR26527	TP4886-11274836	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.49
FAL04	GR26532	TP4885-11278956	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.49
FAL04	GR26534	X21782-14649326	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	29.5			1.9			39.0			95.80		
FAL04	GR26550	TP2170-1677368	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.81		
FAL04	GR26564	TP10501-14687044	27.6KV_347V/600V_750_3P	Two-Winding Transformer	0.0		750.00	104.5	104.6	104.6	6.8	6.8	6.8	41.2	41.2	41.2	95.00	94.84	94.81
FAL04	GR26571	NPTE3241-1664990	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	29.5			1.9			39.0			95.80		
FAL04	GR26575	X06069-11543568	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	9.8			0.6			39.0			96.10		
FAL04	GR26582	TP2880-1681495	27.6KV_347V/600V_1000_3P	Two-Winding Transformer	0.0		1000.00	269.2	260.5	281.3	17.5	17.0	18.3	78.6	76.1	82.1	93.92	93.86	93.69
FAL04	GR26588	NPTE3086-1664843	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.73
FAL04	GR26593	NPTE3087-1664844	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.71
FAL04	GR26598	NPTE3088-1664845	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.70
FAL04	GR26603	NPTE3089-1664846	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.69

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR26608	NPTE3090-1664847	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.68
FAL04	GR26613	NPTE3091-1664848	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.67
FAL04	GR26618	NPTE3092-1664849	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.67
FAL04	GR26623	NPTE3093-1664850	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.66
FAL04	GR26628	NPTE3094-1664851	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.66
FAL04	GR26633	NPTE3041-1664801	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.66
FAL04	GR26638	NPTE3040-1664800	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.66
FAL04	GR26644	NPTE3097-1664854	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.87		
FAL04	GR26649	NPTE3096-1664853	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.85		
FAL04	GR26654	X41965-1661815	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	9.8			0.6			39.0			96.18		
FAL04	GR26660	NPTE3533-1677140	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.91	
FAL04	GR26665	NPTE3534-1677141	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.90	
FAL04	GR26670	TP14506-1677142	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.90	
FAL04	GR26675	NPTE3536-1665142	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.90	
FAL04	GR26680	NPTE3537-1665143	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.89	
FAL04	GR26685	NPTE3538-1665144	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.89	
FAL04	GR26690	NPTE3539-1665145	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.89	
FAL04	GR26695	NPTE3540-1665146	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.89	
FAL04	GR26702	NPTE3543-1677143	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.9			43.6			95.77
FAL04	GR26731	TP6697-11370768	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.85
FAL04	GR26737	TP6696-11370727	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.84
FAL04	GR26742	TP6695-11370718	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.84
FAL04	GR26750	TP6694-11370707	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.83
FAL04	GR26754	TP6700-11624130	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.83
FAL04	GR26758	TP6690-11370773	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.90		
FAL04	GR26764	TP6703-11370764	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.89		
FAL04	GR26770	TP6689-11370732	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.89		
FAL04	GR26775	TP6688-11370755	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.89		
FAL04	GR26780	TP6687-11370759	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.89		
FAL04	GR26787	TP6739-11370778	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.93	
FAL04	GR26792	TP6741-11370802	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.92	
FAL04	GR26797	TP6740-11370809	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.92	
FAL04	GR26802	TP6738-11370797	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.92	
FAL04	GR26807	TP6737-11370817	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.91	
FAL04	GR26812	TP6736-11370822	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.91	
FAL04	GR26817	TP6734-11370830	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.91	
FAL04	GR26821	X41192-11577867	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.90		
FAL04	GR26832	TP7346-11567337	27.6KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	39.4	36.1	44.0	2.6	2.3	2.9	39.0	35.8	43.6	95.71	95.76	95.65
FAL04	GR26839	TP9130-12971535	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.86
FAL04	GR26844	TP9126-13146325	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		60.1			3.9			35.8			95.93	
FAL04	GR26849	TP9125-13146324	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.91	
FAL04	GR26860	TP7441-11620396	27.6KV_120V/208V_500_3P	Two-Winding Transformer	0.0		500.00	65.5	60.1	73.2	4.3	3.9	4.8	39.0	35.8	43.6	95.82	95.86	95.75
FAL04	GR26865	TP7440-11620409	27.6KV_120V/208V_500_3P	Two-Winding Transformer	0.0		500.00	65.5	60.1	73.2	4.3	3.9	4.8	39.0	35.8	43.6	95.82	95.85	95.75
FAL04	GR26871	TP7439-11620550	27.6KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	39.4	36.1	44.0	2.6	2.3	2.9	39.0	35.8	43.6	95.71	95.76	95.63
FAL04	GR26876	TP7436-11621570	27.6KV_120V/208V_500_3P	Two-Winding Transformer	0.0		500.00	65.5	60.1	73.2	4.3	3.9	4.8	39.0	35.8	43.6	95.84	95.87	95.75
FAL04	GR26882	TP12003-16384022	27.6KV_347V/600V_1500_3P	Two-Winding Transformer	0.0		1500.00	196.5	180.1	219.6	12.8	11.7	14.3	39.0	35.8	43.6	95.86	95.89	95.77
FAL04	GR26888	TP7438-11621212	27.6KV_120V/208V_500_3P	Two-Winding Transformer	0.0		500.00	65.5	60.1	73.2	4.3	3.9	4.8	39.0	35.8	43.6	95.82	95.86	95.73
FAL04	GR26893	X41182-11578502	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.94		
FAL04	GR26899	TP7421-11636050	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.81
FAL04	GR26904	TP9380-13234400	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.79
FAL04	GR26909	TP9383-13234408	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.79
FAL04	GR26914	TP9384-13234407	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.78
FAL04	GR26919	TP9385-13234406	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.78
FAL04	GR26924	TP9388-13234405	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.78
FAL04	GR26929	TP9386-13234403	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.77
FAL04	GR26934	TP9387-13234404	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.77
FAL04	GR26939	TP9382-13234402	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.77
FAL04	GR26944	TP9381-13234401	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.77
FAL04	GR26948	X36570-1662569	27.6KV_347V/600V_225_3P	Two-Winding Transformer	0.0		225.00	24.4	24.4	24.4	1.6	1.6	1.6	32.1	32.1	32.1	95.38	95.34	95.36
FAL04	GR26954	TP7450-1677093	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	47.0	45.3	49.3	3.0	2.9	3.2	46.3	44.7	48.5	95.23	95.26	95.19
FAL04	GR26960	TP3898-10003884	27.6KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	19.7	18.0	22.0	1.3	1.2	1.4	39.0	35.8	43.6	96.00	96.06	95.93
FAL04	GR26966	NPTE3401-1677092	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	44.7	43.1	47.0	2.9	2.8	3.0	44.1	42.5	46.3	95.31	95.35	95.28
FAL04	GR26976	NPTE3472-6574946	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.06		
FAL04	GR27020	X43206-14733410	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	9.8			0.6			39.0			96.38		
FAL04	GR27022	X45349-13134729	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.09		
FAL04	GR27027	TP4870-1663263	27.6KV_120V/208V_500_3P	Two-Winding Transformer	0.0		500.00	65.5	60.1	73.2	4.2	3.9	4.8	39.0	35.8	43.6	96.01	96.09	95.92
FAL04	GR27029	X45354-13134738	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.09		
FAL04	GR27038	NPTE3158-1664913	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.07		
FAL04	GR27043	NPTE3157-1664912	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.06		
FAL04	GR27048	NPTE3156-1664911	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.06		
FAL04	GR27053	NPTE3155-1664910	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.05		
FAL04	GR27058	NPTE3071-1664828	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.04		
FAL04	GR27063	NPTE3072-1664829	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.03		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR27068	NPTE3073-1664830	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.02		
FAL04	GR27073	NPTE3074-1664831	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.02		
FAL04	GR27078	NPTE3281-1677067	27.6KV_120V/240V_20_1P	Two-Winding Transformer	0.0		20.00	7.9			0.5			39.0			96.01		
FAL04	GR27083	NPTE3280-1677066	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.01		
FAL04	GR27088	NPTE3279-1677065	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.01		
FAL04	GR27093	TP2804-1686737	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.5			39.0			96.01		
FAL04	GR27099	NPTE3163-1664918	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			96.00
FAL04	GR27106	TP7022-11607102	27.6KV_347V/600V_750_3P	Two-Winding Transformer	0.0		750.00	102.9	96.8	111.6	6.7	6.3	7.2	40.8	38.4	44.2	95.82	95.88	95.76
FAL04	GR27113	TP5889-1663141	27.6KV_347V/600V_225_3P	Two-Winding Transformer	0.0		225.00	29.5	27.1	33.0	1.9	1.8	2.1	39.0	35.8	43.6	95.90	95.99	95.80
FAL04	GR27118	NPTE3294-1665033	27.6KV_347V/600V_1500_3P	Two-Winding Transformer	0.0		1500.00	216.3	200.7	238.1	14.0	13.0	15.4	42.8	39.8	47.1	95.81	95.89	95.73
FAL04	GR27123	TP3385-1664898	27.6KV_347V/600V_750_3P	Two-Winding Transformer	0.0		750.00	84.4	84.4	84.4	5.5	5.5	5.5	33.3	33.3	33.3	95.58	95.58	95.59
FAL04	GR27130	TP5168-11248552	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.7			35.8			96.48	
FAL04	GR27137	TP5164-11372946	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	65.6			4.2			39.0			96.57		
FAL04	GR27142	TP5165-11265974	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	65.6			4.2			39.0			96.57		
FAL04	GR27147	TP5166-11322500	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	65.6			4.2			39.0			96.56		
FAL04	GR27152	TP5167-11263275	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	65.6			4.2			39.0			96.56		
FAL04	GR27158	TP12147-16455896	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	29.5			1.9			39.0			96.53		
FAL04	GR27163	TP12144-16455878	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.5			39.0			96.53		
FAL04	GR27171	TP5064-11286417	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.69		
FAL04	GR27176	TP5060-11573893	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			96.63
FAL04	GR27180	TP5062-11573901	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			96.77	
FAL04	GR27188	X66622-16505330	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			10.9			0.7			43.6			97.41
FAL04	GR27190	X33007-13576405	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			4.4			0.3			43.6			97.45
FAL04	GR27192	X47475-13583571	27.6KV_347V/600V_112_3P	Two-Winding Transformer	0.0		112.50	14.7	13.4	16.4	0.9	0.9	1.0	38.8	35.6	43.4	97.46	97.54	97.38
FAL04	GR27197	X32727-1662531	27.6KV_347V/600V_225_3P	Two-Winding Transformer	0.0		225.00	30.5	30.5	30.5	1.9	1.9	1.9	40.0	40.0	40.0	96.65	96.66	96.66
FAL04	GR27201	X47457-13573656	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			97.77
FAL04	GR27208	X44307-15660598	27.6KV_347V/600V_112_3P	Two-Winding Transformer	0.0		112.50	14.7	13.4	16.4	0.9	0.8	1.0	38.8	35.6	43.4	99.20	99.28	99.12
FAL04	GR27879	TP5169-11245736	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			96.36
FAL04	GR28085	TP12139-16455891	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.8			43.6			96.35
FAL04	GR28090	TP12146-16455895	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.8			43.6			96.34
FAL04	GR28095	TP12140-16455888	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.8			43.6			96.33
FAL04	GR28100	TP12141-16455887	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.8			43.6			96.33
FAL04	GR28105	TP12142-16455885	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.8			43.6			96.33
FAL04	GR28110	TP12143-16455881	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.8			43.6			96.32
FAL04	GR28116	TP12131-16455894	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		60.1			3.9			35.8			96.47	
FAL04	GR28121	TP12133-16455897	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		60.1			3.9			35.8			96.45	
FAL04	GR28126	TP12135-16455859	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		60.1			3.9			35.8			96.44	
FAL04	GR28131	TP12134-16455860	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		36.0			2.3			35.8			96.43	
FAL04	GR28136	TP12145-16455857	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		36.0			2.3			35.8			96.42	
FAL04	GR28141	TP12138-16455856	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		60.1			3.9			35.8			96.44	
FAL04	GR27840	NPTE3162-1664917	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			96.00
FAL04	GR27845	NPTE3161-1664916	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.99
FAL04	GR27851	NPTE3160-1664915	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			96.15	
FAL04	GR27856	NPTE3159-1664914	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			96.15	
FAL04	GR27861	TP12373-1664825	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			96.15	
FAL04	GR27866	NPTE3069-1664826	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			96.15	
FAL04	GR27871	NPTE3070-1664827	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			96.15	
FAL04	GR28067	NPTE3067-1664824	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.98
FAL04	GR28072	TP3835-10001873	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.8			43.6			95.97
FAL04	GR28077	TP3836-10001875	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.8			43.6			95.97
FAL04	GR27827	TP3574-11284524	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.06		
FAL04	GR27832	TP7477-11622571	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			96.06		
FAL04	GR27729	TP9124-13146291	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		165.4			10.8			96.3			93.80	
FAL04	GR27734	TP9122-13146252	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		60.1			3.9			35.8			95.90	
FAL04	GR27742	TP9121-13146199	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.86	
FAL04	GR27747	TP9120-13146043	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.86	
FAL04	GR27752	TP9119-13146040	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.85	
FAL04	GR27757	TP9118-13145936	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.85	
FAL04	GR27762	TP9117-13145867	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.84	
FAL04	GR27767	TP9116-13145863	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.84	
FAL04	GR27773	TP9115-13145782	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		60.1			3.9			35.8			95.85	
FAL04	GR27775	TP9123-16388099	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		60.1			3.9			35.8			95.89	
FAL04	GR27782	TP7427-11636060	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	65.6			4.3			39.0			95.87		
FAL04	GR27787	TP7428-11636061	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.6			39.0			95.86		
FAL04	GR27792	TP7408-11636059	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.85		
FAL04	GR27797	TP7409-11636058	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.84		
FAL04	GR27802	TP7410-11636057	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.84		
FAL04	GR27807	TP7411-11636056	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.84		
FAL04	GR27812	TP8562-11636064	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.83		
FAL04	GR27817	TP7413-11636065	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.83		
FAL04	GR27822	TP7414-11636068	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.83		
FAL04	GR27706	TE3547-11341659	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	29.5			1.9			39.0			95.88		
FAL04	GR27711	NPTE3546-1665151	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	29.5			1.9			39.0			95.87		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR27716	NPTE3545-1665150	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.87		
FAL04	GR27722	NPTE3544-1665149	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.77
FAL04	GR28058	NPTE3541-1665147	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.86		
FAL04	GR27698	NPTE3520-1677136	27.6KV_120V/240V_500_1P	Two-Winding Transformer	0.0		500.00	196.2			12.8			39.0			95.92		
FAL04	GR27649	NPTE3242-1664991	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.6			39.0			95.79		
FAL04	GR27654	NPTE3234-1664984	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.78		
FAL04	GR27659	NPTE3357-1677077	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.77		
FAL04	GR27664	NPTE3358-1677078	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.76		
FAL04	GR27669	NPTE3359-1677079	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.76		
FAL04	GR27674	NPTE3360-1677080	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	29.5			1.9			39.0			95.76		
FAL04	GR27679	NPTE3361-1665070	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	29.5			1.9			39.0			95.76		
FAL04	GR27684	NPTE3362-1665071	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.76		
FAL04	GR27690	NPTE3240-1664989	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.70	
FAL04	GR27529	TP2173-1677370	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.63	
FAL04	GR27534	TP2169-1680387	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.62	
FAL04	GR27539	TP2168-1679379	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.61	
FAL04	GR27544	TP2172-1680561	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.60	
FAL04	GR27549	TP2167-1680385	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.59	
FAL04	GR27554	TP2166-1679719	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.59	
FAL04	GR27559	TP2814-1686903	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		36.0			2.3			35.8			95.58	
FAL04	GR27564	TP2783-1686904	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.58	
FAL04	GR27569	TP2165-1678283	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.58	
FAL04	GR27574	TP2174-1677701	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.57	
FAL04	GR27580	TP2176-1677372	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.41
FAL04	GR27585	TP3139-1695758	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.9			43.6			95.40
FAL04	GR27590	TP3138-1696271	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.39
FAL04	GR27595	TP2177-1677373	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.38
FAL04	GR27600	TP2178-1677374	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.37
FAL04	GR27605	TP2175-1677371	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.35
FAL04	GR27610	TP2818-1686030	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.9			43.6			95.34
FAL04	GR27615	TP2817-1686032	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.9			43.6			95.33
FAL04	GR27620	TP2816-1686033	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.33
FAL04	GR27625	TP2179-1678223	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.33
FAL04	GR27630	TP2180-1678679	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.32
FAL04	GR27636	TP2181-1677784	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.31
FAL04	GR27642	TP2171-1677369	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.81		
FAL04	GR27440	TP3424-10255812	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.69	
FAL04	GR27445	TP3423-10256369	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		36.0			2.3			35.8			95.69	
FAL04	GR27450	TP3425-11218542	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.67	
FAL04	GR27455	TP3426-11218540	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.67	
FAL04	GR27460	TP3427-11218538	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.66	
FAL04	GR27465	TP3431-1699102	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.65	
FAL04	GR27470	TP3422-11218528	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.65	
FAL04	GR27475	TP3421-1699101	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.65	
FAL04	GR27480	TP3420-1699100	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.64	
FAL04	GR27485	TP3419-1699099	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.64	
FAL04	GR27490	TP3418-1699098	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.64	
FAL04	GR27494	TP3404-1698107	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.75		
FAL04	GR27499	TP3405-1699087	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.75		
FAL04	GR27504	TP3408-1698442	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.74		
FAL04	GR27509	TP3409-1699085	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	29.5			1.9			39.0			95.74		
FAL04	GR27514	TP3410-1699088	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.74		
FAL04	GR27519	TP3411-1699089	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.74		
FAL04	GR27524	TP3412-1699090	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.73		
FAL04	GR27391	NPTE2857-1664635	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.70	
FAL04	GR27397	NPTE2873-1664648	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.79		
FAL04	GR27402	NPTE2874-1664649	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.78		
FAL04	GR27407	NPTE2875-1664650	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.78		
FAL04	GR27412	NPTE2876-1664651	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.77		
FAL04	GR27417	TP14223-1664652	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.77		
FAL04	GR27422	NPTE2878-1664653	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.77		
FAL04	GR27432	NPTE2909-6573389	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.77		
FAL04	GR27434	NPTE2908-6574602	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.77		
FAL04	GR27377	NPTE2566-1664376	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.78		
FAL04	GR27384	NPTE2572-1664382	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.69	
FAL04	GR27368	TP6481-1664524	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.48
FAL04	GR27273	TP5392-1677164	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.99
FAL04	GR27278	TP5393-1677168	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.98
FAL04	GR27284	TP2227-1678912	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.95
FAL04	GR27289	TP2426-1678918	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.94
FAL04	GR27294	TP2427-1679513	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.94
FAL04	GR27299	TP2428-1678907	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.94
FAL04	GR27304	TP2429-1680700	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.8			43.6			95.93

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR27310	TP5385-1677161	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.96	
FAL04	GR27315	TP5386-1677160	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.96	
FAL04	GR27320	TP5387-1677159	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.96	
FAL04	GR27327	TP5376-1677150	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.84		
FAL04	GR27332	TP5377-1677151	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.83		
FAL04	GR27337	TP5378-1677152	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.83		
FAL04	GR27342	TP5379-1677153	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.82		
FAL04	GR27347	TP5380-1677154	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.82		
FAL04	GR27352	TP5381-1677155	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.82		
FAL04	GR27357	TP5382-1677156	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.81		
FAL04	GR27362	TP5383-1677157	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.81		
FAL04	GR27238	TP5343-1664878	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.86		
FAL04	GR27243	TP5344-1664877	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.86		
FAL04	GR27248	TP5345-1664876	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.86		
FAL04	GR27254	TP5346-1664875	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.85		
FAL04	GR27259	TP5347-1664874	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.85		
FAL04	GR27264	TP5348-1664880	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.85		
FAL04	GR27214	TP5690-11390766	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.99
FAL04	GR27219	TP6860-11384859	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.98
FAL04	GR27224	TP6859-11384860	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.98
FAL04	GR27229	TP6858-11384861	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.98
FAL04	GR27233	TP6608-11310118	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.83		
FAL04	GR28669	TP6482-1664857	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.78		
FAL04	GR28368	NPTE3542-1665148	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.89	
FAL04	GR28051	TP6674-11375679	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.84		
FAL04	GR28042	NPTE3239-1664988	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.52
FAL04	GR28035	TP2183-1677375	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.31
FAL04	GR28488	TP3079-1694383	27.6KV_347V/600V_750_3P	Two-Winding Transformer	0.0		750.00	66.9	66.9	66.9	4.4	4.4	4.4	26.5	26.5	26.5	95.54	95.23	95.11
FAL04	GR28484	NPTE2924-1664693	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.77		
FAL04	GR27996	NPTE2858-1664636	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.70	
FAL04	GR28002	NPTE2864-1664641	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.49
FAL04	GR28007	NPTE2865-1664642	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.49
FAL04	GR28018	NPTE2868-1664643	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.48
FAL04	GR28023	NPTE2869-1664644	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.48
FAL04	GR28027	NPTE2867-6573451	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.48
FAL04	GR28029	NPTE2866-6573335	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.48
FAL04	GR28184	NPTE2860-1664637	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.69	
FAL04	GR28189	NPTE2861-1664638	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.69	
FAL04	GR28194	NPTE2862-1664639	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.69	
FAL04	GR28199	NPTE2863-1664640	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.69	
FAL04	GR28203	NPTE2859-6573391	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.70	
FAL04	GR28207	NPTE2870-1664645	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.47
FAL04	GR28212	NPTE2871-1664646	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.47
FAL04	GR28217	NPTE2872-1664647	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.47
FAL04	GR27989	NPTE2578-1664388	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.45
FAL04	GR28173	NPTE2573-1664383	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.68	
FAL04	GR28475	NPTE2579-1664389	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.43
FAL04	GR28612	NPTE2567-1664377	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.76		
FAL04	GR28638	NPTE2574-1664384	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.67	
FAL04	GR28655	NPTE2580-1664390	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.40
FAL04	GR28682	NPTE2568-1664378	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.75		
FAL04	GR28690	NPTE2575-1664385	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.67	
FAL04	GR28701	NPTE2569-1664379	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.74		
FAL04	GR28707	NPTE2581-1664391	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.37
FAL04	GR28712	NPTE2582-1664392	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.37
FAL04	GR28717	NPTE2583-1664393	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.36
FAL04	GR28725	NPTE2576-1664386	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.67	
FAL04	GR28732	NPTE2570-1664380	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.73		
FAL04	GR28741	NPTE2577-1664387	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.66	
FAL04	GR28748	NPTE2571-1664381	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.72		
FAL04	GR28758	NPTE2584-1664394	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.35
FAL04	GR28766	NPTE2728-1664531	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.34
FAL04	GR28774	NPTE2729-1664532	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.33
FAL04	GR28779	NPTE2730-1664533	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.32
FAL04	GR28784	NPTE2731-1664534	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.32
FAL04	GR28789	NPTE2732-1664535	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.32
FAL04	GR28794	NPTE2733-1664536	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.31
FAL04	GR28799	NPTE2734-1664537	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.31
FAL04	GR28804	TP12575-1664538	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			43.9			2.9			43.6			95.31
FAL04	GR28809	NPTE2743-1664546	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.66	
FAL04	GR28814	NPTE2744-1664547	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.66	
FAL04	GR28819	NPTE2745-1664548	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.66	
FAL04	GR28825	NPTE3083-1664840	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.70		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR28830	NPTE3082-1664839	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.70		
FAL04	GR28835	NPTE3081-1664838	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.70		
FAL04	GR28840	NPTE3080-1664837	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.69		
FAL04	GR28845	NPTE3079-1664836	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.69		
FAL04	GR28850	NPTE3078-1664835	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.69		
FAL04	GR27959	TP6480-1664525	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.47
FAL04	GR27965	TP6479-1664526	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.47
FAL04	GR27970	TP6478-1664527	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.47
FAL04	GR27976	NPTE2716-1664519	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.69	
FAL04	GR27981	NPTE2717-1664520	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.68	
FAL04	GR28165	TP6477-1664528	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.47
FAL04	GR28468	NPTE2718-1664521	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.68	
FAL04	GR28524	TP6476-1664529	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.47
FAL04	GR28604	NPTE2719-1664522	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.68	
FAL04	GR28630	NPTE2720-1664523	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.68	
FAL04	GR27895	TP5352-1664887	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.96	
FAL04	GR27900	TP5353-1664888	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.95	
FAL04	GR27905	TP5354-1664889	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.94	
FAL04	GR27910	TP5355-1664883	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.94	
FAL04	GR27915	TP5356-1664890	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.93	
FAL04	GR27920	TP5357-1664893	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.93	
FAL04	GR27925	TP5358-1664891	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.93	
FAL04	GR27931	TP5360-1664882	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.97
FAL04	GR27936	TP5361-1664884	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.95
FAL04	GR27941	TP5362-1664885	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.94
FAL04	GR27946	TP5363-1664886	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.93
FAL04	GR27952	TP5349-1664881	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.85		
FAL04	GR28408	TP5350-1677122	27.6KV_120V/240V_20_1P	Two-Winding Transformer	0.0		20.00	7.9			0.5			39.0			95.86		
FAL04	GR28415	TP5364-1677127	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.90
FAL04	GR28420	TP5365-1677145	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.89
FAL04	GR28425	TP5366-1677146	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.88
FAL04	GR28430	TP5367-1677147	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.87
FAL04	GR28435	TP5368-1677148	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.87
FAL04	GR28440	TP5369-1665155	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.86
FAL04	GR28445	TP5370-1665156	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.86
FAL04	GR28450	TP5371-1677126	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.86
FAL04	GR28455	TP5372-1677125	27.6KV_120V/240V_20_1P	Two-Winding Transformer	0.0		20.00			8.8			0.6			43.6			95.86
FAL04	GR28460	TP5373-1677124	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.85
FAL04	GR28516	TP5359-1677123	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.93	
FAL04	GR27886	TP5329-1665056	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.99	
FAL04	GR28146	TP5330-1665059	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.97	
FAL04	GR28151	TP5341-1665154	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.97	
FAL04	GR28156	TP5340-1677144	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.97	
FAL04	GR28378	TP5339-1665062	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.96
FAL04	GR28384	TP5331-1665060	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.88		
FAL04	GR28390	TP5332-1665061	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.88		
FAL04	GR28395	TP5333-1665065	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.87		
FAL04	GR28400	TP5335-1665066	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.87		
FAL04	GR28509	TP5338-1665063	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.96	
FAL04	GR28595	TP5334-1665064	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.95
FAL04	GR28621	TP5337-1665067	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			21.9			1.4			43.6			95.95
FAL04	GR28647	TP5336-1665068	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.95	
FAL04	GR28663	TP5374-1677057	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	39.4	36.1	44.0	2.6	2.3	2.9	39.0	35.8	43.6	95.68	95.78	95.73
FAL04	GR28557	NPTE3441-1677107	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.82		
FAL04	GR28571	TP3664-11218551	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	39.3			2.6			39.0			95.81		
FAL04	GR28576	NPTE3437-1698439	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.81		
FAL04	GR28581	NPTE3436-1701520	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.81		
FAL04	GR28585	TE3438-6573394	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.81		
FAL04	GR28587	NPTE3439-6572851	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.81		
FAL04	GR28589	NPTE3440-6572850	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.82		
FAL04	GR28314	NPTE3522-1665134	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.87	
FAL04	GR28319	TP12756-1665135	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.87	
FAL04	GR28324	NPTE3525-1677138	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.86	
FAL04	GR28329	NPTE3527-1665138	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.86	
FAL04	GR28334	NPTE3530-1677139	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.84	
FAL04	GR28339	NPTE3529-1665140	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.84	
FAL04	GR28344	NPTE3528-1665139	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.84	
FAL04	GR28350	NPTE3521-1677137	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.84		
FAL04	GR28355	NPTE3524-1665136	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.84		
FAL04	GR28360	NPTE3526-1665137	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	19.6			1.3			39.0			95.84		
FAL04	GR28495	NPTE3174-1677059	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.83	
FAL04	GR28534	NPTE3175-1664929	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.82	
FAL04	GR28539	NPTE3176-1664930	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.82	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
FAL04	GR28544	NPTE3098-1664855	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.82	
FAL04	GR28549	NPTE3099-1664856	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.82	
FAL04	GR28223	NPTE3230-1664980	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.51
FAL04	GR28228	NPTE3229-1664979	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.50
FAL04	GR28233	NPTE3228-1664978	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.50
FAL04	GR28238	NPTE3227-1664977	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.49
FAL04	GR28243	NPTE3383-1677088	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.48
FAL04	GR28248	NPTE3384-1665085	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.48
FAL04	GR28253	NPTE3385-1665086	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.47
FAL04	GR28258	NPTE3386-1665087	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			32.9			2.1			43.6			95.47
FAL04	GR28263	NPTE3387-1665088	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.0			1.4			43.6			95.47
FAL04	GR28268	NPTE3237-1664986	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.68	
FAL04	GR28273	NPTE3238-1664987	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		36.0			2.3			35.8			95.67	
FAL04	GR28278	NPTE3232-1664982	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.66	
FAL04	GR28283	NPTE3233-1664983	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.66	
FAL04	GR28288	NPTE3235-1664985	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		27.0			1.8			35.8			95.65	
FAL04	GR28293	NPTE3236-1677061	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.65	
FAL04	GR28298	NPTE3397-1677089	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.65	
FAL04	GR28303	NPTE3372-1677083	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.65	
FAL04	GR28308	NPTE3373-1665079	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		18.0			1.2			35.8			95.65	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR257069	11293275	BUS27.6KV_3P_0A_SECONDARY_NOR	Cable	0.1	600.0000		4365.9	5122.7	4746.4	274.0	321.5	297.9	45.7	53.6	49.6	100.00	100.00	100.00
MWDF3	GR257070	11293277	BUS27.6KV_3P_0A_SECONDARY_NOR	Cable	0.1	600.0000		4365.9	5122.7	4746.4	274.0	321.5	297.9	45.7	53.6	49.6	100.00	100.00	100.00
MWDF3	GR257071	11292894	BUS27.6KV_3P_0A_SECONDARY_NOR	Cable	0.1	600.0000		4365.9	5122.7	4746.4	274.0	321.5	297.9	45.7	53.6	49.6	100.00	100.00	100.00
MWDF3	GR257072	5024501	27.6KV_3P_750_AL_XLPE	Cable	1.0	455.0000		4365.9	5122.7	4746.4	274.0	321.5	297.9	60.2	70.7	65.5	100.00	100.00	100.00
MWDF3	GR257073	5101934	27.6KV_3P_750_AL_XLPE	Cable	82.7	455.0000		4365.9	5122.7	4746.3	274.0	321.5	297.9	60.2	70.7	65.5	99.97	99.96	99.97
MWDF3	GR257093	5133280	27.6KV_3P_500_AL_XLPE	Cable	312.4	400.0000		695.7	342.1	490.5	43.8	21.6	30.9	11.0	5.4	7.7	99.57	99.46	99.65
MWDF3	GR257094	15661934	27.6KV_3P_1000_AL_XLPE	Cable	4.2	505.0000		695.5	342.0	490.5	43.8	21.6	30.9	8.7	4.3	6.1	99.57	99.46	99.65
MWDF3	GR257095	18117221	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		695.5	342.0	490.5	43.8	21.6	30.9	8.7	4.3	6.1	99.57	99.46	99.65
MWDF3	GR257096	18117189	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		695.5	342.0	490.5	43.8	21.6	30.9	7.3	3.6	5.1	99.57	99.46	99.65
MWDF3	GR257097	18117191	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		695.5	342.0	490.5	43.8	21.6	30.9	7.3	3.6	5.1	99.57	99.46	99.65
MWDF3	GR257098	18117201	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		471.2	125.8	142.9	29.7	7.9	9.0	5.0	1.3	1.5	99.57	99.46	99.65
MWDF3	GR257099	18117190	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		471.2	125.8	142.9	29.7	7.9	9.0	5.0	1.3	1.5	99.57	99.46	99.65
MWDF3	GR257100	18117223	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		471.2	125.8	142.9	29.7	7.9	9.0	5.9	1.6	1.8	99.57	99.46	99.65
MWDF3	GR257101	15661942	27.6KV_3P_1000_AL_XLPE	Cable	6.4	505.0000		471.2	125.8	142.9	29.7	7.9	9.0	5.9	1.6	1.8	99.57	99.46	99.65
MWDF3	GR257102	18117138	27.6KV_3P_500_AL_XLPE	Cable	479.9	400.0000		471.2	125.8	142.9	29.7	7.9	9.0	7.4	2.0	2.3	99.54	99.45	99.64
MWDF3	GR257103	5137151	27.6KV_3P_500_AL_XLPE	Cable	502.4	400.0000		471.1	125.8	142.9	29.7	7.9	9.0	7.4	2.0	2.3	99.51	99.45	99.64
MWDF3	GR257104	11348640	27.6KV_3P_750_AL_XLPE	Cable	35.8	455.0000		471.0	125.7	142.9	29.7	7.9	9.0	6.5	1.7	2.0	99.51	99.45	99.64
MWDF3	GR257105	19018563	27.6KV_3P_750_AL_XLPE	Cable	89.0	455.0000		471.0	125.7	142.9	29.7	7.9	9.0	6.5	1.7	2.0	99.50	99.44	99.64
MWDF3	GR257106	11348711	27.6KV_3P_750_AL_XLPE	Cable	54.3	455.0000		470.9	125.7	142.9	29.7	7.9	9.0	6.5	1.7	2.0	99.50	99.44	99.64
MWDF3	GR257107	15524632	27.6KV_3P_750_AL_XLPE	Cable	0.0	455.0000		470.9	125.7	142.9	29.7	7.9	9.0	6.5	1.7	2.0	99.50	99.44	99.64
MWDF3	GR257108	11349171	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		470.9	125.7	142.9	29.7	7.9	9.0	5.0	1.3	1.5	99.50	99.44	99.64
MWDF3	GR257109	11349184	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		470.9	125.7	142.9	29.7	7.9	9.0	5.0	1.3	1.5	99.50	99.44	99.64
MWDF3	GR257110	11349172	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		224.5	81.1	84.9	14.2	5.1	5.3	2.4	0.9	0.9	99.50	99.44	99.64
MWDF3	GR257111	11349173	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		149.6	0.0	0.0	9.4	0.0	0.0	1.6	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257112	11349174	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		149.6			9.4			1.6			99.50		
MWDF3	GR257113	11349198	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		149.6			9.4			1.6			99.50		
MWDF3	GR257114	13129132	27.6KV_1P_1/0_AL_TRIPPEUG	Cable	0.0	180.0000		149.6			9.4			5.2			99.50		
MWDF3	GR257115	13129123	27.6KV_1P_1/0_AL_TRXLPE	Cable	83.9	180.0000		149.6			9.4			5.2			99.50		
MWDF3	GR257120	13129166	27.6KV_1P_1/0_AL_TRXLPE	Cable	185.1	180.0000		130.9			8.3			4.6			99.49		
MWDF3	GR257125	13129155	27.6KV_1P_1/0_AL_TRXLPE	Cable	123.7	180.0000		112.2			7.1			3.9			99.48		
MWDF3	GR257130	13129151	27.6KV_1P_1/0_AL_TRXLPE	Cable	68.3	180.0000		87.2			5.5			3.1			99.48		
MWDF3	GR257135	5136522	27.6KV_1P_1/0_AL_XLPE	Cable	10.2	180.0000		74.8			4.7			2.6			99.48		
MWDF3	GR257136	11348804	27.6KV_1P_1/0_AL_XLPE	Cable	106.8	180.0000		74.8			4.7			2.6			99.48		
MWDF3	GR257141	5135819	27.6KV_1P_1/0_AL_XLPE	Cable	116.6	180.0000		56.1			3.5			2.0			99.47		
MWDF3	GR257146	5136438	27.6KV_1P_1/0_AL_XLPE	Cable	115.2	180.0000		37.4			2.4			1.3			99.47		
MWDF3	GR257151	5136684	27.6KV_1P_1/0_AL_XLPE	Cable	114.6	180.0000		18.7			1.2			0.7			99.47		
MWDF3	GR257155	11349175	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000			0.0			0.0			0.0			99.44	
MWDF3	GR257156	11349176	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000				0.0			0.0			0.0			99.64
MWDF3	GR257157	11349177	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		75.6	81.1	84.9	4.8	5.1	5.3	0.8	0.9	0.9	99.50	99.44	99.64
MWDF3	GR257158	11349195	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		75.6	81.1	84.9	4.8	5.1	5.3	0.8	0.9	0.9	99.50	99.44	99.64
MWDF3	GR257159	15524635	27.6KV_3P_1/0_AL_XLPE	Cable	0.0	180.0000		75.6	81.1	84.9	4.8	5.1	5.3	2.6	2.8	3.0	99.50	99.44	99.64
MWDF3	GR257160	11348721	27.6KV_3P_1/0_AL_XLPE	Cable	7.7	180.0000		75.6	81.1	84.9	4.8	5.1	5.3	2.6	2.8	3.0	99.50	99.44	99.64
MWDF3	GR257164	11349181	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		246.6	45.0	58.6	15.5	2.8	3.7	2.6	0.5	0.6	99.50	99.44	99.64
MWDF3	GR257165	11349186	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		246.6	45.0	58.6	15.5	2.8	3.7	2.6	0.5	0.6	99.50	99.44	99.64
MWDF3	GR257166	15524633	27.6KV_3P_750_AL_XLPE	Cable	0.0	455.0000		246.6	45.0	58.6	15.5	2.8	3.7	3.4	0.6	0.8	99.50	99.44	99.64
MWDF3	GR257167	11553947	27.6KV_3P_750_AL_XLPE	Cable	31.3	455.0000		246.6	45.0	58.6	15.5	2.8	3.7	3.4	0.6	0.8	99.50	99.44	99.64
MWDF3	GR257168	11421628	27.6KV_3P_750_AL_XLPE	Cable	125.5	455.0000		246.5	45.0	58.6	15.5	2.8	3.7	3.4	0.6	0.8	99.50	99.44	99.64
MWDF3	GR257169	11422784	27.6KV_3P_750_AL_XLPE	Cable	47.6	455.0000		246.5	45.0	58.6	15.5	2.8	3.7	3.4	0.6	0.8	99.50	99.44	99.64
MWDF3	GR257179	11438053	27.6KV_1P_1/0_AL_TRXLPE	Cable	133.6	180.0000		43.6			2.8			1.5			99.49		
MWDF3	GR257184	11357126	27.6KV_1P_1/0_AL_TRXLPE	Cable	105.2	180.0000		31.2			2.0			1.1			99.49		
MWDF3	GR257185	5022178	27.6KV_1P_1/0_AL_XLPE	Cable	91.5	180.0000		31.2			2.0			1.1			99.49		
MWDF3	GR257190	5136463	27.6KV_1P_1/0_AL_XLPE	Cable	133.5	180.0000		18.7			1.2			0.7			99.49		
MWDF3	GR257195	5136276	27.6KV_1P_1/0_AL_XLPE	Cable	32.2	180.0000		0.0			0.0			0.0			99.49		
MWDF3	GR257202	18146048	27.6KV_1P_1/0_AL_TRXLPE	Cable	128.8	180.0000		83.2			5.3			2.9			99.49		
MWDF3	GR257207	18146028	27.6KV_1P_1/0_AL_TRXLPE	Cable	56.8	180.0000		41.6			2.6			1.5			99.49		
MWDF3	GR257214	5137618	27.6KV_1P_1/0_AL_XLPE	Cable	153.5	180.0000		24.9			1.6			0.9			99.49		
MWDF3	GR257220	5023012	27.6KV_3P_1/0_AL_XLPE	Cable	83.0	180.0000		51.3	42.9	48.3	3.2	2.7	3.0	1.8	1.5	1.7	99.49	99.44	99.64
MWDF3	GR257228	5136697	27.6KV_3P_500_AL_XLPE	Cable	100.2	400.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.49	99.45	99.64
MWDF3	GR257229	18198916	27.6KV_3P_1000_AL_XLPE	Cable	3.8	505.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.49	99.45	99.64
MWDF3	GR257230	16469676	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.49	99.45	99.64
MWDF3	GR257236	18146000	27.6KV_1P_1/0_AL_TRXLPE	Cable	75.7	180.0000		41.6			2.6			1.5			99.49		
MWDF3	GR257241	18146017	27.6KV_1P_1/0_AL_TRXLPE	Cable	54.4	180.0000		0.0			0.0			0.0			99.49		
MWDF3	GR257251	18117204	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		224.3	216.7	347.8	14.1	13.7	21.9	2.4	2.3	3.7	99.57	99.46	99.65
MWDF3	GR257252	18117202	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		124.6	130.0	221.3	7.9	8.2	13.9	1.3	1.4	2.3	99.57	99.46	99.65
MWDF3	GR257253	18117198	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		124.6			7.9			1.3			99.57		
MWDF3	GR257254	18117194	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		124.6			7.9			1.3			99.57		
MWDF3	GR257255	18117216	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000		124.6			7.9			4.4			99.57		
MWDF3	GR257256	18117199	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000			130.0			8.2			1.4			99.46	
MWDF3	GR257257	18117192	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000			130.0			8.2			1.4			99.46	
MWDF3	GR257258	18117217	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000			130.0			8.2			4.6			99.46	
MWDF3	GR257259	18117200	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000				221.3			13.9			2.3			99.65
MWDF3	GR257260	18117193	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000				221.3			13.9			2.3			99.65

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR257261	18117218	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000				221.3			13.9			7.7			99.65
MWDF3	GR257262	18117203	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		99.7	86.7	126.4	6.3	5.5	8.0	1.0	0.9	1.3	99.57	99.46	99.65
MWDF3	GR257263	18117205	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000			86.7			5.5			0.9			99.46	
MWDF3	GR257264	18117196	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000			86.7			5.5			0.9			99.46	
MWDF3	GR257265	18117220	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000			86.7			5.5			3.0			99.46	
MWDF3	GR257266	18117206	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		99.7			6.3			1.0			99.57		
MWDF3	GR257267	18117195	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		99.7			6.3			1.0			99.57		
MWDF3	GR257268	18117219	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000		99.7			6.3			3.5			99.57		
MWDF3	GR257269	18117207	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000				126.4			8.0			1.3			99.65
MWDF3	GR257270	18117197	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000				126.4			8.0			1.3			99.65
MWDF3	GR257271	18117222	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000				126.4			8.0			4.4			99.65
MWDF3	GR257274	11563546	27.6KV_3P_1000_AL_TRXLPE	Cable	225.0	505.0000		502.4	455.4	394.5	31.7	28.7	24.8	6.3	5.7	4.9	99.58	99.46	99.65
MWDF3	GR257346	13181383	27.6KV_2P_1/0_AL_TRXLPE	Cable	104.1	180.0000			390.4	321.7		24.7	20.3		13.7	11.3		99.34	99.58
MWDF3	GR257347	13181582	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.6	180.0000				321.6			20.3			11.3			99.58
MWDF3	GR257352	13181700	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.6	180.0000				305.8			19.3			10.7			99.58
MWDF3	GR257353	13181780	27.6KV_1P_1/0_AL_TRXLPE	Cable	12.3	180.0000			390.4			24.7			13.7			99.34	
MWDF3	GR257366	18218331	27.6KV_1P_1/0_AL_TRXLPE	Cable	103.3	180.0000		220.3			13.9			7.7			99.46		
MWDF3	GR257371	18218330	27.6KV_1P_1/0_AL_TRXLPE	Cable	60.3	180.0000		195.4			12.3			6.8			99.45		
MWDF3	GR257376	18218324	27.6KV_1P_1/0_AL_TRXLPE	Cable	121.6	180.0000		153.8			9.7			5.4			99.44		
MWDF3	GR257381	18218315	27.6KV_1P_1/0_AL_TRXLPE	Cable	70.7	180.0000		128.8			8.1			4.5			99.44		
MWDF3	GR257386	18218314	27.6KV_1P_1/0_AL_TRXLPE	Cable	65.2	180.0000		87.2			5.5			3.1			99.44		
MWDF3	GR257391	18218312	27.6KV_1P_1/0_AL_TRXLPE	Cable	121.7	180.0000		68.5			4.3			2.4			99.43		
MWDF3	GR257396	18218309	27.6KV_1P_1/0_AL_TRXLPE	Cable	106.0	180.0000		43.6			2.8			1.5			99.43		
MWDF3	GR257401	18218284	27.6KV_1P_1/0_AL_TRXLPE	Cable	31.7	180.0000		24.9			1.6			0.9			99.43		
MWDF3	GR257406	18218283	27.6KV_1P_1/0_AL_TRXLPE	Cable	68.5	180.0000		0.0			0.0			0.0			99.43		
MWDF3	GR257408	18218183	27.6KV_1P_1/0_AL_TRXLPE	Cable	57.7	180.0000		193.2			12.2			6.8			99.46		
MWDF3	GR257409	18218184	27.6KV_1P_1/0_AL_TRXLPE	Cable	53.3	180.0000		193.2			12.2			6.8			99.46		
MWDF3	GR257414	18218223	27.6KV_1P_1/0_AL_TRXLPE	Cable	51.8	180.0000		174.5			11.0			6.1			99.46		
MWDF3	GR257419	18218224	27.6KV_1P_1/0_AL_TRXLPE	Cable	234.7	180.0000		149.6			9.4			5.2			99.44		
MWDF3	GR257424	18218228	27.6KV_1P_1/0_AL_TRXLPE	Cable	135.7	180.0000		124.6			7.9			4.4			99.43		
MWDF3	GR257429	18218243	27.6KV_1P_1/0_AL_TRXLPE	Cable	115.9	180.0000		99.7			6.3			3.5			99.43		
MWDF3	GR257434	18218263	27.6KV_1P_1/0_AL_TRXLPE	Cable	125.9	180.0000		74.8			4.7			2.6			99.43		
MWDF3	GR257439	18218264	27.6KV_1P_1/0_AL_TRXLPE	Cable	68.2	180.0000		49.8			3.1			1.7			99.42		
MWDF3	GR257444	18218266	27.6KV_1P_1/0_AL_TRXLPE	Cable	55.0	180.0000		24.9			1.6			0.9			99.42		
MWDF3	GR257454	16458784	27.6KV_3P_1/0_AL_XLPE	Cable	124.7	180.0000		30.6	30.6	30.6	1.9	1.9	1.9	1.1	1.1	1.1	99.55	99.44	99.63
MWDF3	GR257455	16494685	27.6KV_3P_1/0_AL_XLPE	Cable	11.4	180.0000		30.6	30.6	30.6	1.9	1.9	1.9	1.1	1.1	1.1	99.55	99.44	99.63
MWDF3	GR257462	15439099	27.6KV_3P_1/0_AL_XLPE	Cable	192.0	180.0000		37.0	37.0	37.0	2.3	2.3	2.3	1.3	1.3	1.3	99.56	99.45	99.64
MWDF3	GR257483	11332791	27.6KV_3P_750_AL_TRXLPE	Cable	125.2	455.0000		1190.4	2155.1	1350.6	75.1	136.2	85.0	16.5	29.9	18.7	99.47	99.26	99.65
MWDF3	GR257484	11332713	27.6KV_3P_750_AL_TRXLPE	Cable	227.6	455.0000		1190.3	2154.6	1350.4	75.1	136.2	85.0	16.5	29.9	18.7	99.45	99.22	99.62
MWDF3	GR257485	11332714	27.6KV_3P_750_AL_TRXLPE	Cable	16.4	455.0000		1190.1	2153.7	1350.0	75.1	136.2	85.0	16.5	29.9	18.7	99.45	99.22	99.62
MWDF3	GR257514	11232432	27.6KV_3P_500_AL_XLPE	Cable	15.3	400.0000		1131.7	2099.5	1156.0	71.6	133.2	72.8	17.9	33.3	18.2	99.23	98.90	99.63
MWDF3	GR257542	5135742	27.6KV_1P_1/0_AL_XLPE	Cable	126.0	180.0000				71.1			4.5			2.5			99.63
MWDF3	GR257547	5135743	27.6KV_1P_1/0_AL_XLPE	Cable	233.0	180.0000				47.4			3.0			1.7			99.62
MWDF3	GR257552	5135744	27.6KV_1P_1/0_AL_XLPE	Cable	64.9	180.0000				31.6			2.0			1.1			99.62
MWDF3	GR257557	5135745	27.6KV_1P_1/0_AL_XLPE	Cable	144.5	180.0000				15.8			1.0			0.6			99.62
MWDF3	GR257594	5135120	27.6KV_1P_2/0_AL_XLPE	Cable	85.8	210.0000				173.9			10.9			5.2			99.69
MWDF3	GR257599	5023322	27.6KV_1P_2/0_AL_XLPE	Cable	120.9	210.0000				158.1			10.0			4.7			99.69
MWDF3	GR257604	5136607	27.6KV_1P_2/0_AL_XLPE	Cable	101.3	210.0000				142.3			9.0			4.3			99.68
MWDF3	GR257609	5136229	27.6KV_1P_2/0_AL_XLPE	Cable	225.0	210.0000				126.5			8.0			3.8			99.67
MWDF3	GR257614	5135311	27.6KV_1P_2/0_AL_XLPE	Cable	91.7	210.0000				110.7			7.0			3.3			99.67
MWDF3	GR257619	5022888	27.6KV_1P_2/0_AL_XLPE	Cable	507.4	210.0000				94.8			6.0			2.8			99.65
MWDF3	GR257624	5022093	27.6KV_1P_2/0_AL_XLPE	Cable	251.2	210.0000				79.0			5.0			2.4			99.64
MWDF3	GR257629	5022094	27.6KV_1P_2/0_AL_XLPE	Cable	327.1	210.0000				63.2			4.0			1.9			99.64
MWDF3	GR257634	5022095	27.6KV_1P_2/0_AL_XLPE	Cable	126.3	210.0000				47.4			3.0			1.4			99.64
MWDF3	GR257639	5022096	27.6KV_1P_2/0_AL_XLPE	Cable	127.5	210.0000				31.6			2.0			0.9			99.63
MWDF3	GR257644	5022097	27.6KV_1P_2/0_AL_XLPE	Cable	127.9	210.0000				15.8			1.0			0.5			99.63
MWDF3	GR257649	5022098	27.6KV_1P_2/0_AL_XLPE	Cable	169.6	210.0000				0.0			0.0			0.0			99.63
MWDF3	GR257657	5137575	27.6KV_1P_1/0_AL_XLPE	Cable	125.0	180.0000				142.2			9.0			5.0			99.70
MWDF3	GR257662	5024898	27.6KV_1P_1/0_AL_XLPE	Cable	124.7	180.0000				118.5			7.5			4.1			99.70
MWDF3	GR257667	5024899	27.6KV_1P_1/0_AL_XLPE	Cable	125.4	180.0000				94.8			6.0			3.3			99.69
MWDF3	GR257672	5024900	27.6KV_1P_1/0_AL_XLPE	Cable	123.5	180.0000				71.1			4.5			2.5			99.69
MWDF3	GR257677	5024901	27.6KV_1P_1/0_AL_XLPE	Cable	126.2	180.0000				47.4			3.0			1.7			99.69
MWDF3	GR257682	5022110	27.6KV_1P_1/0_AL_XLPE	Cable	137.7	180.0000				23.7			1.5			0.8			99.68
MWDF3	GR257688	5133444	27.6KV_1P_1/0_AL_XLPE	Cable	76.7	180.0000			101.1			6.4			3.6			98.45	
MWDF3	GR257693	5136602	27.6KV_1P_1/0_AL_XLPE	Cable	149.8	180.0000			86.7			5.5			3.1			98.45	
MWDF3	GR257698	5136603	27.6KV_1P_1/0_AL_XLPE	Cable	166.6	180.0000			65.0			4.1			2.3			98.44	
MWDF3	GR257703	5136604	27.6KV_1P_1/0_AL_XLPE	Cable	170.1	180.0000			50.6			3.2			1.8			98.44	
MWDF3	GR257708	5136605	27.6KV_1P_1/0_AL_XLPE	Cable	122.1	180.0000			36.1			2.3			1.3			98.44	
MWDF3	GR257713	5136606	27.6KV_1P_1/0_AL_XLPE	Cable	210.6	180.0000			14.4			0.9			0.5			98.44	
MWDF3	GR257714	5135312	27.6KV_1P_2/0_AL_XLPE	Cable	206.6	210.0000			14.4			0.9			0.4			98.44	
MWDF3	GR257741	15607470	27.6KV_1P_1/0_AL_TRXLPE	Cable	138.3	180.0000		37.4			2.4			1.3			98.89		
MWDF3	GR257746	15607525	27.6KV_1P_1/0_AL_TRXLPE	Cable	251.2	180.0000		24.9			1.6			0.9			98.88		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR257751	16499450	27.6KV_1P_1/0_AL_TRXLPE	Cable	184.9	180.0000		12.5			0.8			0.4			98.88		
MWDF3	GR257793	5022534	27.6KV_1P_2/0_AL_XLPE	Cable	617.5	210.0000			57.8			3.7			1.8			98.34	
MWDF3	GR257798	5023713	27.6KV_1P_2/0_AL_XLPE	Cable	132.3	210.0000			43.3			2.8			1.3			98.34	
MWDF3	GR257803	5137092	27.6KV_1P_2/0_AL_XLPE	Cable	114.6	210.0000			28.9			1.8			0.9			98.34	
MWDF3	GR257808	5137091	27.6KV_1P_2/0_AL_XLPE	Cable	137.8	210.0000			14.4			0.9			0.4			98.34	
MWDF3	GR257813	5137090	27.6KV_1P_2/0_AL_XLPE	Cable	117.4	210.0000			0.0			0.0			0.0			98.34	
MWDF3	GR257817	11532145	27.6KV_1P_1/0_AL_TRXLPE	Cable	213.7	180.0000				15.8			1.0			0.6			99.72
MWDF3	GR257823	11532144	27.6KV_1P_1/0_AL_TRXLPE	Cable	450.2	180.0000				0.0			0.0			0.0			99.72
MWDF3	GR257892	5135245	27.6KV_1P_2/0_AL_XLPE	Cable	66.3	210.0000			137.2			8.8			4.2			98.34	
MWDF3	GR257897	5135521	27.6KV_1P_2/0_AL_XLPE	Cable	118.3	210.0000			115.6			7.4			3.5			98.33	
MWDF3	GR257902	5024067	27.6KV_1P_2/0_AL_XLPE	Cable	146.1	210.0000			101.1			6.5			3.1			98.33	
MWDF3	GR257907	5022310	27.6KV_1P_2/0_AL_XLPE	Cable	150.1	210.0000			86.7			5.5			2.6			98.32	
MWDF3	GR257912	5135752	27.6KV_1P_2/0_AL_XLPE	Cable	319.9	210.0000			65.0			4.1			2.0			98.32	
MWDF3	GR257917	5023719	27.6KV_1P_2/0_AL_XLPE	Cable	190.7	210.0000			43.3			2.8			1.3			98.31	
MWDF3	GR257922	5135190	27.6KV_1P_2/0_AL_XLPE	Cable	363.5	210.0000			21.7			1.4			0.7			98.31	
MWDF3	GR257994	11444318	27.6KV_1P_1/0_AL_TRXLPE	Cable	78.9	180.0000		31.2			2.0			1.1			98.69		
MWDF3	GR257999	11444321	27.6KV_1P_1/0_AL_TRXLPE	Cable	201.4	180.0000		18.7			1.2			0.7			98.69		
MWDF3	GR258013	11444329	27.6KV_1P_1/0_AL_TRXLPE	Cable	169.8	180.0000		18.7			1.2			0.7			98.68		
MWDF3	GR258019	11444324	27.6KV_1P_1/0_AL_TRXLPE	Cable	263.1	180.0000		0.0			0.0			0.0			98.68		
MWDF3	GR258251	11249832	27.6KV_1P_2/0_AL_XLPE	Cable	95.3	210.0000		12.5			0.8			0.4			98.65		
MWDF3	GR258534	5133166	27.6KV_1P_2/0_AL_XLPE	Cable	89.0	210.0000			187.8			12.0			5.7			98.34	
MWDF3	GR258539	5134482	27.6KV_1P_2/0_AL_XLPE	Cable	235.8	210.0000			166.2			10.6			5.0			98.33	
MWDF3	GR258544	5134495	27.6KV_1P_2/0_AL_XLPE	Cable	132.7	210.0000			144.5			9.2			4.4			98.32	
MWDF3	GR258549	5134512	27.6KV_1P_2/0_AL_XLPE	Cable	169.8	210.0000			122.8			7.8			3.7			98.31	
MWDF3	GR258554	5134054	27.6KV_1P_2/0_AL_XLPE	Cable	197.8	210.0000			101.1			6.5			3.1			98.31	
MWDF3	GR258559	5134069	27.6KV_1P_2/0_AL_XLPE	Cable	240.3	210.0000			79.5			5.1			2.4			98.30	
MWDF3	GR258564	5134080	27.6KV_1P_2/0_AL_XLPE	Cable	438.3	210.0000			65.0			4.1			2.0			98.29	
MWDF3	GR258569	5136130	27.6KV_1P_2/0_AL_XLPE	Cable	281.6	210.0000			43.3			2.8			1.3			98.28	
MWDF3	GR258574	5132256	27.6KV_1P_2/0_AL_XLPE	Cable	500.6	210.0000			21.7			1.4			0.7			98.28	
MWDF3	GR258579	5136546	27.6KV_1P_2/0_AL_XLPE	Cable	238.5	210.0000			0.0			0.0			0.0			98.28	
MWDF3	GR258581	11532109	27.6KV_1P_1/0_AL_TRXLPE	Cable	415.5	180.0000				47.4			3.0			1.7			99.72
MWDF3	GR258587	11532139	27.6KV_1P_1/0_AL_TRXLPE	Cable	257.6	180.0000				23.7			1.5			0.8			99.71
MWDF3	GR258595	5137089	27.6KV_1P_2/0_AL_XLPE	Cable	101.5	210.0000			14.4			0.9			0.4			98.35	
MWDF3	GR258647	5022111	27.6KV_1P_1/0_AL_XLPE	Cable	33.5	180.0000			115.6			7.4			4.1			98.14	
MWDF3	GR258648	5138169	27.6KV_1P_1/0_AL_XLPE	Cable	219.8	180.0000			115.6			7.4			4.1			98.13	
MWDF3	GR258653	5024675	27.6KV_1P_1/0_AL_XLPE	Cable	193.3	180.0000			101.1			6.5			3.6			98.12	
MWDF3	GR258658	5024451	27.6KV_1P_1/0_AL_XLPE	Cable	172.9	180.0000			86.7			5.5			3.1			98.12	
MWDF3	GR258659	5023876	27.6KV_1P_1/0_AL_XLPE	Cable	7.3	180.0000			86.7			5.5			3.1			98.12	
MWDF3	GR258664	5024453	27.6KV_1P_1/0_AL_XLPE	Cable	175.7	180.0000			72.2			4.6			2.6			98.11	
MWDF3	GR258669	5024455	27.6KV_1P_1/0_AL_XLPE	Cable	82.7	180.0000			57.8			3.7			2.1			98.11	
MWDF3	GR258670	5135156	27.6KV_1P_1/0_AL_XLPE	Cable	101.4	180.0000			57.8			3.7			2.1			98.11	
MWDF3	GR258675	5137576	27.6KV_1P_1/0_AL_XLPE	Cable	251.6	180.0000			43.3			2.8			1.5			98.10	
MWDF3	GR258681	5024488	27.6KV_1P_1/0_AL_XLPE	Cable	250.6	180.0000			28.9			1.8			1.0			98.10	
MWDF3	GR258687	5024459	27.6KV_1P_1/0_AL_XLPE	Cable	154.7	180.0000			14.4			0.9			0.5			98.10	
MWDF3	GR258717	13173089	27.6KV_1P_1/0_AL_XLPE	Cable	205.1	180.0000			144.5			9.2			5.1			98.08	
MWDF3	GR258722	13173102	27.6KV_1P_1/0_AL_XLPE	Cable	196.4	180.0000			130.0			8.3			4.6			98.07	
MWDF3	GR258727	13173108	27.6KV_1P_1/0_AL_XLPE	Cable	201.6	180.0000			115.6			7.4			4.1			98.06	
MWDF3	GR258732	5135157	27.6KV_1P_1/0_AL_XLPE	Cable	159.2	180.0000			101.1			6.5			3.6			98.05	
MWDF3	GR258737	5022318	27.6KV_1P_1/0_AL_XLPE	Cable	272.6	180.0000			86.7			5.5			3.1			98.04	
MWDF3	GR258743	5022319	27.6KV_1P_1/0_AL_XLPE	Cable	392.8	180.0000			72.2			4.6			2.6			98.03	
MWDF3	GR258748	5022320	27.6KV_1P_1/0_AL_XLPE	Cable	173.5	180.0000			57.8			3.7			2.1			98.03	
MWDF3	GR258753	5022321	27.6KV_1P_1/0_AL_XLPE	Cable	197.7	180.0000			28.9			1.8			1.0			98.02	
MWDF3	GR258758	5022322	27.6KV_1P_1/0_AL_XLPE	Cable	174.3	180.0000			14.4			0.9			0.5			98.02	
MWDF3	GR258763	5023035	27.6KV_1P_1/0_AL_XLPE	Cable	185.8	180.0000			0.0			0.0			0.0			98.02	
MWDF3	GR258787	15466986	27.6KV_1P_1/0_AL_XLPE	Cable	3.7	180.0000			57.8			3.7			2.1			97.98	
MWDF3	GR258788	15466969	27.6KV_1P_1/0_AL_TRXLPE	Cable	420.8	180.0000			57.8			3.7			2.1			97.97	
MWDF3	GR258793	15467079	27.6KV_1P_1/0_AL_TRXLPE	Cable	575.9	180.0000			43.3			2.8			1.5			97.96	
MWDF3	GR258798	15467078	27.6KV_1P_1/0_AL_TRXLPE	Cable	263.2	180.0000			28.9			1.9			1.0			97.96	
MWDF3	GR258803	15467072	27.6KV_1P_1/0_AL_TRXLPE	Cable	174.3	180.0000			14.4			0.9			0.5			97.96	
MWDF3	GR258809	15467039	27.6KV_1P_1/0_AL_XLPE	Cable	4.1	180.0000			72.2			4.6			2.6			97.97	
MWDF3	GR258810	15467042	27.6KV_1P_1/0_AL_TRXLPE	Cable	558.2	180.0000			72.2			4.6			2.6			97.96	
MWDF3	GR258815	15467045	27.6KV_1P_1/0_AL_TRXLPE	Cable	178.0	180.0000			57.8			3.7			2.1			97.95	
MWDF3	GR258820	15467046	27.6KV_1P_1/0_AL_TRXLPE	Cable	238.2	180.0000			43.3			2.8			1.5			97.95	
MWDF3	GR258825	15467048	27.6KV_1P_1/0_AL_TRXLPE	Cable	300.1	180.0000			28.9			1.9			1.0			97.94	
MWDF3	GR258830	15467067	27.6KV_1P_1/0_AL_TRXLPE	Cable	228.3	180.0000			14.4			0.9			0.5			97.94	
MWDF3	GR258835	15467069	27.6KV_1P_1/0_AL_TRXLPE	Cable	229.3	180.0000			0.0			0.0			0.0			97.94	
MWDF3	GR259208	11658926	27.6KV_3P_2/0_AL_XLPE	Cable	3.6	210.0000		49.9	101.1	229.3	3.2	6.5	14.4	1.5	3.1	6.9	98.73	98.23	99.84
MWDF3	GR259209	5135734	27.6KV_2P_2/0_AL_XLPE	Cable	144.4	210.0000			101.1	229.3		6.5	14.4		3.1	6.9		98.23	99.83
MWDF3	GR259210	5135735	27.6KV_1P_2/0_AL_XLPE	Cable	6.5	210.0000				229.3			14.4			6.9			99.83
MWDF3	GR259215	5022099	27.6KV_1P_2/0_AL_XLPE	Cable	6.5	210.0000				213.5			13.4			6.4			99.83
MWDF3	GR259216	5136569	27.6KV_1P_2/0_AL_XLPE	Cable	2.0	210.0000			101.1			6.5			3.1			98.23	
MWDF3	GR259217	5136581	27.6KV_1P_2/0_AL_XLPE	Cable	217.2	210.0000		49.9			3.2			1.5			98.73		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR259218	5025090	27.6KV_1P_2/0_AL_XLPE	Cable	476.9	210.0000		49.9			3.2			1.5			98.72		
MWDF3	GR259223	11450481	27.6KV_1P_1/0_AL_TRXLPE	Cable	328.3	180.0000		31.2			2.0			1.1			98.71		
MWDF3	GR259228	5137175	27.6KV_1P_2/0_AL_XLPE	Cable	526.0	210.0000		18.7			1.2			0.6			98.71		
MWDF3	GR259233	5025091	27.6KV_1P_2/0_AL_XLPE	Cable	180.6	210.0000		0.0			0.0			0.0			98.71		
MWDF3	GR259255	5022824	27.6KV_1P_2/0_AL_XLPE	Cable	137.7	210.0000		112.2			7.1			3.4			98.67		
MWDF3	GR259260	5136033	27.6KV_1P_2/0_AL_XLPE	Cable	126.1	210.0000		93.5			5.9			2.8			98.67		
MWDF3	GR259265	5136038	27.6KV_1P_2/0_AL_XLPE	Cable	131.6	210.0000		74.8			4.8			2.3			98.67		
MWDF3	GR259271	5135000	27.6KV_1P_2/0_AL_XLPE	Cable	150.1	210.0000		56.1			3.6			1.7			98.66		
MWDF3	GR259276	5135001	27.6KV_1P_2/0_AL_XLPE	Cable	167.0	210.0000		37.4			2.4			1.1			98.66		
MWDF3	GR259282	5135004	27.6KV_1P_2/0_AL_XLPE	Cable	69.4	210.0000		24.9			1.6			0.8			98.66		
MWDF3	GR259287	5135005	27.6KV_1P_2/0_AL_XLPE	Cable	145.0	210.0000		12.5			0.8			0.4			98.66		
MWDF3	GR259344	11576340	27.6KV_1P_1/0_CU_XLPE	Cable	92.1	180.0000			7.2			0.5			0.3			98.24	
MWDF3	GR259390	5023016	27.6KV_1P_1/0_AL_XLPE	Cable	68.6	180.0000		112.2			7.1			4.0			98.67		
MWDF3	GR259395	5025117	27.6KV_1P_1/0_AL_XLPE	Cable	127.9	180.0000		93.5			5.9			3.3			98.66		
MWDF3	GR259400	5025092	27.6KV_1P_1/0_AL_XLPE	Cable	129.2	180.0000		74.8			4.8			2.6			98.66		
MWDF3	GR259405	5025093	27.6KV_1P_1/0_AL_XLPE	Cable	152.1	180.0000		56.1			3.6			2.0			98.65		
MWDF3	GR259410	5024070	27.6KV_1P_1/0_AL_XLPE	Cable	89.6	180.0000		43.6			2.8			1.5			98.65		
MWDF3	GR259415	5137398	27.6KV_1P_1/0_AL_XLPE	Cable	103.1	180.0000		31.2			2.0			1.1			98.65		
MWDF3	GR259420	5024917	27.6KV_1P_1/0_AL_XLPE	Cable	129.3	180.0000		18.7			1.2			0.7			98.65		
MWDF3	GR259425	5135002	27.6KV_1P_1/0_AL_XLPE	Cable	130.0	180.0000		0.0			0.0			0.0			98.65		
MWDF3	GR259434	5137174	27.6KV_1P_2/0_AL_XLPE	Cable	222.6	210.0000		37.4			2.4			1.1			98.73		
MWDF3	GR259439	5022444	27.6KV_1P_2/0_AL_XLPE	Cable	180.4	210.0000		18.7			1.2			0.6			98.73		
MWDF3	GR259440	5025089	27.6KV_1P_2/0_AL_XLPE	Cable	86.2	210.0000		18.7			1.2			0.6			98.73		
MWDF3	GR259486	5024701	27.6KV_1P_1/0_AL_XLPE	Cable	72.5	180.0000		56.1			3.5			2.0			99.14		
MWDF3	GR259491	5135196	27.6KV_1P_1/0_AL_XLPE	Cable	350.0	180.0000		43.6			2.8			1.5			99.13		
MWDF3	GR259497	5135197	27.6KV_1P_1/0_AL_XLPE	Cable	183.7	180.0000		24.9			1.6			0.9			99.13		
MWDF3	GR259502	5135198	27.6KV_1P_1/0_AL_XLPE	Cable	124.2	180.0000		12.5			0.8			0.4			99.13		
MWDF3	GR259510	5023474	27.6KV_1P_1/0_AL_XLPE	Cable	187.7	180.0000		128.9			8.2			4.5			99.20		
MWDF3	GR259515	5135199	27.6KV_1P_1/0_AL_XLPE	Cable	155.2	180.0000		110.2			7.0			3.9			99.19		
MWDF3	GR259520	5135355	27.6KV_1P_1/0_AL_XLPE	Cable	173.6	180.0000		97.7			6.2			3.4			99.18		
MWDF3	GR259525	5022814	27.6KV_1P_1/0_AL_XLPE	Cable	248.4	180.0000		85.2			5.4			3.0			99.18		
MWDF3	GR259530	5022815	27.6KV_1P_1/0_AL_XLPE	Cable	261.6	180.0000		31.2			2.0			1.1			99.17		
MWDF3	GR259535	5022816	27.6KV_1P_1/0_AL_XLPE	Cable	222.4	180.0000		12.5			0.8			0.4			99.17		
MWDF3	GR259540	5022817	27.6KV_1P_1/0_AL_XLPE	Cable	184.2	180.0000		0.0			0.0			0.0			99.17		
MWDF3	GR259542	5135047	27.6KV_1P_2/0_AL_XLPE	Cable	581.6	210.0000		41.6			2.6			1.3			99.17		
MWDF3	GR259543	5024076	27.6KV_1P_2/0_AL_XLPE	Cable	1.6	210.0000		41.6			2.6			1.3			99.17		
MWDF3	GR259544	5100956	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		41.6			2.6			0.4			99.17		
MWDF3	GR259545	5100957	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		41.6			2.6			0.4			99.17		
MWDF3	GR259546	5100958	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			99.17		
MWDF3	GR259547	5100960	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		41.6			2.6			0.4			99.17		
MWDF3	GR259548	5100961	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		41.6			2.6			0.4			99.17		
MWDF3	GR259549	5100963	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		41.6			2.6			0.4			99.17		
MWDF3	GR259550	5024077	27.6KV_1P_2/0_AL_XLPE	Cable	1.6	210.0000		41.6			2.6			1.3			99.17		
MWDF3	GR259551	5136738	27.6KV_1P_2/0_AL_XLPE	Cable	1041.1	210.0000		41.6			2.6			1.3			99.15		
MWDF3	GR259552	18109591	27.6KV_1P_2/0_AL_XLPE	Cable	0.0	210.0000		41.6			2.6			1.3			99.15		
MWDF3	GR259553	18109653	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		41.6			2.6			0.4			99.15		
MWDF3	GR259554	18109616	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		41.6			2.6			0.4			99.15		
MWDF3	GR259555	18109578	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		41.6			2.6			0.4			99.15		
MWDF3	GR259556	18109590	27.6KV_1P_2/0_AL_XLPE	Cable	0.0	210.0000		41.6			2.6			1.3			99.15		
MWDF3	GR259557	18109596	27.6KV_1P_2/0_AL_XLPE	Cable	2.7	210.0000		41.6			2.6			1.3			99.15		
MWDF3	GR259562	18109411	27.6KV_1P_2/0_AL_XLPE	Cable	221.8	210.0000		0.0			0.0			0.0			99.15		
MWDF3	GR259566	5100962	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			99.17		
MWDF3	GR259585	11370697	27.6KV_3P_1/0_AL_TRXLPE	Cable	59.9	180.0000		56.1	43.3	158.1	3.5	2.7	10.0	2.0	1.5	5.5	99.45	99.22	99.61
MWDF3	GR259586	11370616	27.6KV_1P_1/0_AL_TRXLPE	Cable	14.8	180.0000				158.1			10.0			5.5			99.61
MWDF3	GR259591	11370607	27.6KV_1P_1/0_AL_TRXLPE	Cable	90.6	180.0000				142.2			9.0			5.0			99.61
MWDF3	GR259596	11370588	27.6KV_1P_1/0_AL_TRXLPE	Cable	99.0	180.0000				126.4			8.0			4.4			99.60
MWDF3	GR259601	11351196	27.6KV_1P_1/0_AL_TRXLPE	Cable	17.6	180.0000				102.7			6.5			3.6			99.60
MWDF3	GR259606	11351194	27.6KV_1P_1/0_AL_TRXLPE	Cable	136.6	180.0000				79.0			5.0			2.8			99.60
MWDF3	GR259611	9031338	27.6KV_1P_1/0_AL_TRXLPE	Cable	134.9	180.0000				63.2			4.0			2.2			99.59
MWDF3	GR259616	9031336	27.6KV_1P_1/0_AL_TRXLPE	Cable	36.8	180.0000				47.4			3.0			1.7			99.59
MWDF3	GR259621	9031377	27.6KV_1P_1/0_AL_TRXLPE	Cable	430.6	180.0000				31.6			2.0			1.1			99.59
MWDF3	GR259626	9031375	27.6KV_1P_1/0_AL_TRXLPE	Cable	71.8	180.0000				0.0			0.0			0.0			99.59
MWDF3	GR259630	11370647	27.6KV_2P_1/0_AL_TRXLPE	Cable	70.4	180.0000		56.1	43.3		3.5	2.7		2.0	1.5		99.45	99.22	
MWDF3	GR259631	11370621	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.8	180.0000			43.3			2.7			1.5			99.22	
MWDF3	GR259636	11370648	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.8	180.0000			28.9			1.8			1.0			99.22	
MWDF3	GR259637	11370646	27.6KV_1P_1/0_AL_TRXLPE	Cable	11.4	180.0000		56.1			3.5			2.0			99.45		
MWDF3	GR259643	9031318	27.6KV_3P_1/0_AL_TRXLPE	Cable	104.2	180.0000		74.8	43.3	245.1	4.7	2.7	15.4	2.6	1.5	8.6	99.54	99.37	99.64
MWDF3	GR259644	9031278	27.6KV_1P_1/0_AL_TRXLPE	Cable	100.7	180.0000				245.0			15.4			8.6			99.63
MWDF3	GR259649	9031286	27.6KV_1P_1/0_AL_TRXLPE	Cable	191.8	180.0000				229.2			14.4			8.0			99.62
MWDF3	GR259654	9031347	27.6KV_1P_1/0_AL_XLPE	Cable	69.3	180.0000				197.6			12.4			6.9			99.61
MWDF3	GR259659	9031351	27.6KV_1P_1/0_AL_XLPE	Cable	77.7	180.0000				173.9			11.0			6.1			99.61
MWDF3	GR259664	9031279	27.6KV_1P_3/0_AL_XLPE	Cable	148.6	210.0000				142.2			9.0			4.3			99.60

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR259669	9031281	27.6KV_1P_1/0_AL_XLPE	Cable	133.4	180.0000				110.6			7.0			3.9			99.59
MWDF3	GR259674	9031282	27.6KV_1P_1/0_AL_XLPE	Cable	67.0	180.0000				79.0			5.0			2.8			99.59
MWDF3	GR259679	9031370	27.6KV_1P_1/0_AL_XLPE	Cable	111.3	180.0000				47.4			3.0			1.7			99.59
MWDF3	GR259684	9031372	27.6KV_1P_1/0_AL_TRXLPE	Cable	116.8	180.0000				23.7			1.5			0.8			99.59
MWDF3	GR259686	9031332	27.6KV_2P_1/0_AL_TRXLPE	Cable	4.5	180.0000		74.8	43.3		4.7	2.7		2.6	1.5		99.54	99.37	
MWDF3	GR259687	9031333	27.6KV_1P_1/0_AL_TRXLPE	Cable	85.0	180.0000		74.8			4.7			2.6			99.53		
MWDF3	GR259692	9031341	27.6KV_1P_1/0_AL_TRXLPE	Cable	123.4	180.0000		49.8			3.1			1.7			99.53		
MWDF3	GR259697	11351097	27.6KV_1P_1/0_AL_TRXLPE	Cable	78.9	180.0000		31.2			2.0			1.1			99.53		
MWDF3	GR259702	9031345	27.6KV_1P_1/0_AL_TRXLPE	Cable	141.1	180.0000		18.7			1.2			0.7			99.53		
MWDF3	GR259707	9031360	27.6KV_1P_1/0_AL_TRXLPE	Cable	119.4	180.0000			43.3			2.7			1.5			99.37	
MWDF3	GR259708	9031343	27.6KV_2P_1/0_AL_TRXLPE	Cable	0.0	180.0000		0.0	43.3		0.0	2.7		0.0	1.5		99.44	99.37	
MWDF3	GR259709	11367659	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.6	180.0000			43.3			2.7			1.5			99.37	
MWDF3	GR259714	11367658	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.6	180.0000			21.7			1.4			0.8			99.37	
MWDF3	GR259715	11351218	27.6KV_2P_1/0_AL_TRXLPE	Cable	0.0	180.0000		0.0	21.7		0.0	1.4		0.0	0.8		99.44	99.37	
MWDF3	GR259716	11351216	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.0	180.0000			21.7			1.4			0.8			99.37	
MWDF3	GR259717	11351210	27.6KV_2P_1/0_AL_TRXLPE	Cable	0.0	180.0000		18.7	21.7		1.2	1.4		0.7	0.8		99.44	99.37	
MWDF3	GR259718	11351209	27.6KV_1P_1/0_AL_TRXLPE	Cable	36.7	180.0000			21.7			1.4			0.8			99.37	
MWDF3	GR259723	11369765	27.6KV_1P_1/0_AL_TRXLPE	Cable	89.0	180.0000			0.0			0.0			0.0			99.37	
MWDF3	GR259724	11369783	27.6KV_2P_1/0_AL_TRXLPE	Cable	0.0	180.0000		31.2	0.0		2.0	0.0		1.1	0.0		99.44	99.37	
MWDF3	GR259725	11369888	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.7	180.0000			0.0			0.0			0.0			99.37	
MWDF3	GR259727	16440947	27.6KV_3P_1000_AL_XLPE	Cable	341.3	505.0000		1743.3	1954.4	2100.7	109.8	123.3	132.3	21.7	24.4	26.2	99.57	99.44	99.61
MWDF3	GR259728	16468003	27.6KV_3P_1/0_AL_XLPE	Cable	0.0	180.0000		1742.5	1953.5	2099.5	109.8	123.3	132.3	61.0	68.5	73.5	99.57	99.44	99.61
MWDF3	GR259729	16467939	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		1742.5	1953.5	2099.5	109.8	123.3	132.3	18.3	20.5	22.0	99.57	99.44	99.61
MWDF3	GR259730	16467957	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		1742.5	1953.5	2099.5	109.8	123.3	132.3	18.3	20.5	22.0	99.57	99.44	99.61
MWDF3	GR259731	16467970	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		1659.6	1857.4	1994.3	104.6	117.2	125.6	17.4	19.5	20.9	99.57	99.44	99.61
MWDF3	GR259732	16467945	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		1659.6	1857.4	1994.3	104.6	117.2	125.6	17.4	19.5	20.9	99.57	99.44	99.61
MWDF3	GR259733	16468005	27.6KV_3P_1/0_AL_XLPE	Cable	0.0	180.0000		1659.6	1857.4	1994.3	104.6	117.2	125.6	58.1	65.1	69.8	99.57	99.44	99.61
MWDF3	GR259734	16440972	27.6KV_3P_1000_AL_XLPE	Cable	70.7	505.0000		1659.6	1857.4	1994.3	104.6	117.2	125.6	20.7	23.2	24.9	99.56	99.43	99.60
MWDF3	GR259735	16435036	27.6KV_3P_1000_AL_XLPE	Cable	103.8	505.0000		1659.4	1857.2	1994.1	104.6	117.2	125.6	20.7	23.2	24.9	99.55	99.42	99.59
MWDF3	GR259736	11539939	27.6KV_3P_1/0_CU_XLPE	Cable	0.0	180.0000		1659.2	1856.9	1993.8	104.6	117.2	125.6	58.1	65.1	69.8	99.55	99.42	99.59
MWDF3	GR259737	11539944	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		1659.2	1856.9	1993.8	104.6	117.2	125.6	17.4	19.5	20.9	99.55	99.42	99.59
MWDF3	GR259738	11658607	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		1659.2	1856.9	1993.8	104.6	117.2	125.6	17.4	19.5	20.9	99.55	99.42	99.59
MWDF3	GR259739	11539946	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		623.6	722.8	791.1	39.3	45.6	49.9	6.6	7.6	8.3	99.55	99.42	99.59
MWDF3	GR259740	11539948	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		207.8	240.9	263.7	13.1	15.2	16.6	2.2	2.5	2.8	99.55	99.42	99.59
MWDF3	GR259741	11539961	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		207.8	240.9	263.7	13.1	15.2	16.6	2.2	2.5	2.8	99.55	99.42	99.59
MWDF3	GR259742	11539942	DEFAULT	Cable	0.0	100.0000		207.8	240.9	263.7	13.1	15.2	16.6	13.1	15.2	16.6	99.55	99.42	99.59
MWDF3	GR259743	13065230	27.6KV_3P_1/0_AL_XLPE	Cable	151.5	180.0000		207.8	240.9	263.7	13.1	15.2	16.6	7.3	8.4	9.2	99.54	99.41	99.58
MWDF3	GR259744	13065229	27.6KV_3P_1/0_AL_XLPE	Cable	64.8	180.0000		207.8	240.9	263.6	13.1	15.2	16.6	7.3	8.4	9.2	99.53	99.41	99.57
MWDF3	GR259749	13065221	27.6KV_3P_1/0_AL_XLPE	Cable	10.1	180.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.53	99.41	99.57
MWDF3	GR259753	11539960	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		415.7	481.9	527.4	26.2	30.4	33.2	4.4	5.1	5.5	99.55	99.42	99.59
MWDF3	GR259754	11539947	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		415.7	481.9	527.4	26.2	30.4	33.2	4.4	5.1	5.5	99.55	99.42	99.59
MWDF3	GR259755	11539941	DEFAULT	Cable	0.0	100.0000		415.7	481.9	527.4	26.2	30.4	33.2	26.2	30.4	33.2	99.55	99.42	99.59
MWDF3	GR259756	13065184	27.6KV_3P_1/0_AL_XLPE	Cable	149.7	180.0000		415.7	481.9	527.4	26.2	30.4	33.2	14.6	16.9	18.5	99.53	99.40	99.57
MWDF3	GR259757	13065191	27.6KV_3P_1/0_AL_XLPE	Cable	52.9	180.0000		415.7	481.8	527.3	26.2	30.4	33.2	14.6	16.9	18.5	99.53	99.39	99.56
MWDF3	GR259762	13065220	27.6KV_3P_1/0_AL_XLPE	Cable	9.6	180.0000		207.8	240.9	263.6	13.1	15.2	16.6	7.3	8.4	9.2	99.52	99.39	99.56
MWDF3	GR259764	11539959	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		1038.1	1136.5	1204.8	65.4	71.7	75.9	10.9	12.0	12.7	99.55	99.42	99.59
MWDF3	GR259765	11539945	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		1038.1	1136.5	1204.8	65.4	71.7	75.9	10.9	12.0	12.7	99.55	99.42	99.59
MWDF3	GR259766	12973636	27.6KV_3P_1/0_AL_XLPE	Cable	0.0	180.0000		1038.1	1136.5	1204.8	65.4	71.7	75.9	36.4	39.9	42.2	99.55	99.42	99.59
MWDF3	GR259767	15652150	27.6KV_3P_1000_AL_XLPE	Cable	24.9	505.0000		1038.1	1136.5	1204.8	65.4	71.7	75.9	13.0	14.2	15.0	99.54	99.42	99.59
MWDF3	GR259768	15472339	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		1038.1	1136.5	1204.8	65.4	71.7	75.9	13.0	14.2	15.0	99.54	99.42	99.59
MWDF3	GR259769	15472305	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		1038.1	1136.5	1204.8	65.4	71.7	75.9	10.9	12.0	12.7	99.54	99.42	99.59
MWDF3	GR259770	15472300	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		1038.1	1136.5	1204.8	65.4	71.7	75.9	10.9	12.0	12.7	99.54	99.42	99.59
MWDF3	GR259771	15472298	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		415.7	481.9	527.4	26.2	30.4	33.2	4.4	5.1	5.5	99.54	99.42	99.59
MWDF3	GR259772	15472285	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		415.7	481.9	527.4	26.2	30.4	33.2	4.4	5.1	5.5	99.54	99.42	99.59
MWDF3	GR259773	15472283	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		415.7	481.9	527.4	26.2	30.4	33.2	4.4	5.1	5.5	99.54	99.42	99.59
MWDF3	GR259774	15472333	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		415.7	481.9	527.4	26.2	30.4	33.2	5.2	6.0	6.6	99.54	99.42	99.59
MWDF3	GR259775	15561597	27.6KV_3P_1000_AL_XLPE	Cable	173.2	505.0000		415.7	481.9	527.4	26.2	30.4	33.2	5.2	6.0	6.6	99.54	99.41	99.58
MWDF3	GR259776	15472412	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		415.7	481.9	527.4	26.2	30.4	33.2	5.2	6.0	6.6	99.54	99.41	99.58
MWDF3	GR259777	15472373	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		415.7	481.9	527.4	26.2	30.4	33.2	4.4	5.1	5.5	99.54	99.41	99.58
MWDF3	GR259778	15472363	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		415.7	481.9	527.4	26.2	30.4	33.2	4.4	5.1	5.5	99.54	99.41	99.58
MWDF3	GR259779	15472362	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.54	99.41	99.58
MWDF3	GR259780	15472361	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.54	99.41	99.58
MWDF3	GR259781	15472367	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.54	99.41	99.58
MWDF3	GR259782	15472359	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.54	99.41	99.58
MWDF3	GR259783	15472410	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.54	99.41	99.58
MWDF3	GR259784	15472168	27.6KV_3P_1000_AL_XLPE	Cable	354.2	505.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.54	99.41	99.58
MWDF3	GR259785	5103002	27.6KV_3P_1000_AL_XLPE	Cable	1.0	505.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.54	99.41	99.58
MWDF3	GR259786	15472364	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		415.7	481.9	527.4	26.2	30.4	33.2	4.4	5.1	5.5	99.54	99.41	99.58
MWDF3	GR259787	15472441	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		415.7	481.9	527.4	26.2	30.4	33.2	4.4	5.1	5.5	99.54	99.41	99.58
MWDF3	GR259788	15472413	27.6KV_3P_1/0_AL_XLPE	Cable	0.0	180.0000		415.7	481.9	527.4	26.2	30.4	33.2	14.6	16.9	18.5	99.54	99.41	99.58
MWDF3	GR259789	15562203	27.6KV_3P_1/0_AL_XLPE	Cable	133.7	180.0000		415.7	481.9	527.4	26.2	30.4	33.2	14.6	16.9	18.5	99.53	99.40	99.56
MWDF3	GR259794	15472139	27.6KV_3P_1/0_AL_XLPE	Cable	108.2	180.0000		207.8	240.9	263.7	13.1	15.2	16.6	7.3	8.4	9.2	99.52	99.39	99.55

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR259799	15472110	27.6KV_3P_1/0_AL_XLPE	Cable	5.3	180.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.52	99.39	99.55
MWDF3	GR259800	15472295	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.54	99.42	99.59
MWDF3	GR259803	15472301	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		626.6	659.0	681.7	39.5	41.6	43.0	6.6	6.9	7.2	99.54	99.42	99.59
MWDF3	GR259804	15472287	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		626.6	659.0	681.7	39.5	41.6	43.0	6.6	6.9	7.2	99.54	99.42	99.59
MWDF3	GR259805	15472341	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		626.6	659.0	681.7	39.5	41.6	43.0	7.8	8.2	8.5	99.54	99.42	99.59
MWDF3	GR259806	15472064	27.6KV_3P_1/0_AL_XLPE	Cable	144.7	180.0000		626.6	659.0	681.7	39.5	41.6	43.0	21.9	23.1	23.9	99.52	99.39	99.56
MWDF3	GR259811	15472082	27.6KV_3P_1/0_AL_XLPE	Cable	5.3	180.0000		207.8	240.9	263.6	13.1	15.2	16.6	7.3	8.4	9.2	99.52	99.39	99.56
MWDF3	GR259816	16467971	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		83.1	96.3	105.4	5.2	6.1	6.6	0.9	1.0	1.1	99.57	99.44	99.61
MWDF3	GR259817	16467973	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		83.1	96.3	105.4	5.2	6.1	6.6	0.9	1.0	1.1	99.57	99.44	99.61
MWDF3	GR259818	16467946	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		83.1	96.3	105.4	5.2	6.1	6.6	0.9	1.0	1.1	99.57	99.44	99.61
MWDF3	GR259819	16468006	27.6KV_3P_1/0_AL_XLPE	Cable	0.0	180.0000		83.1	96.3	105.4	5.2	6.1	6.6	2.9	3.4	3.7	99.57	99.44	99.61
MWDF3	GR259820	16440965	27.6KV_3P_1/0_AL_XLPE	Cable	4.0	180.0000		83.1	96.3	105.4	5.2	6.1	6.6	2.9	3.4	3.7	99.57	99.44	99.61
MWDF3	GR259824	16467974	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.57	99.44	99.61
MWDF3	GR259825	16467959	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.57	99.44	99.61
MWDF3	GR259826	16467948	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.57	99.44	99.61
MWDF3	GR259830	13136505	27.6KV_3P_1/0_AL_XLPE	Cable	142.5	180.0000		148.4	148.4	148.4	9.3	9.4	9.3	5.2	5.2	5.2	99.68	99.58	99.72
MWDF3	GR259834	11293279	BUS27.6KV_3P_0A_SECONDARY_NOR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	100.00	100.00
MWDF3	GR259835	11292907	27.6KV_3P_750_AL_XLPE	Cable	0.6	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	100.00	100.00
MWDF3	GR259836	11292906	BUS27.6KV_3P_0A_SECONDARY_NOR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	100.00	100.00
MWDF3	GR259837	11293280	BUS27.6KV_3P_0A_SECONDARY_NOR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	100.00	100.00
MWDF3	GR259838	11370576	27.6KV_2P_1/0_AL_TRXLPE	Cable	82.8	180.0000		56.1	28.9		3.5	1.8		2.0	1.0		99.45	99.21	
MWDF3	GR259839	11370558	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.7	180.0000		56.1			3.5			2.0			99.45		
MWDF3	GR259844	11370577	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.7	180.0000		43.6			2.8			1.5			99.45		
MWDF3	GR259845	11370574	27.6KV_1P_1/0_AL_TRXLPE	Cable	11.5	180.0000			28.9			1.8			1.0			99.21	
MWDF3	GR259846	11370526	27.6KV_2P_1/0_AL_TRXLPE	Cable	111.7	180.0000		43.6	28.9		2.8	1.8		1.5	1.0		99.44	99.21	
MWDF3	GR259847	11369946	27.6KV_1P_1/0_AL_TRXLPE	Cable	9.3	180.0000		43.6			2.8			1.5			99.44		
MWDF3	GR259848	11369948	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.1	180.0000			28.9			1.8			1.0			99.21	
MWDF3	GR259853	11369947	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.2	180.0000			14.4			0.9			0.5			99.21	
MWDF3	GR259854	11369920	27.6KV_2P_1/0_AL_TRXLPE	Cable	57.9	180.0000		43.6	14.4		2.8	0.9		1.5	0.5		99.44	99.21	
MWDF3	GR259855	11369910	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.7	180.0000		43.6			2.8			1.5			99.44		
MWDF3	GR259860	11369919	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.7	180.0000		31.2			2.0			1.1			99.44		
MWDF3	GR259861	11369917	27.6KV_1P_1/0_AL_TRXLPE	Cable	11.4	180.0000			14.4			0.9			0.5			99.21	
MWDF3	GR259862	11369889	27.6KV_2P_1/0_AL_TRXLPE	Cable	60.9	180.0000		31.2	14.4		2.0	0.9		1.1	0.5		99.44	99.21	
MWDF3	GR259863	11369884	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.8	180.0000			14.4			0.9			0.5			99.21	
MWDF3	GR259868	11369890	27.6KV_1P_1/0_AL_TRXLPE	Cable	11.4	180.0000		31.2			2.0			1.1			99.44		
MWDF3	GR259869	11369774	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.0	180.0000		31.2			2.0			1.1			99.44		
MWDF3	GR259874	11351212	27.6KV_1P_1/0_AL_TRXLPE	Cable	42.2	180.0000		18.7			1.2			0.7			99.44		
MWDF3	GR259875	11351217	27.6KV_1P_1/0_AL_TRXLPE	Cable	14.4	180.0000		18.7			1.2			0.7			99.44		
MWDF3	GR259880	11351215	27.6KV_1P_1/0_AL_TRXLPE	Cable	14.3	180.0000		0.0			0.0			0.0			99.44		
MWDF3	GR259881	11367643	27.6KV_1P_1/0_AL_TRXLPE	Cable	14.1	180.0000		0.0			0.0			0.0			99.44		
MWDF3	GR259882	9031346	27.6KV_1P_1/0_AL_TRXLPE	Cable	21.0	180.0000		0.0			0.0			0.0			99.44		
MWDF3	GR259883	5022100	27.6KV_2P_2/0_AL_XLPE	Cable	62.9	210.0000			101.1	213.5		6.5	13.4		3.1	6.4		98.23	99.82
MWDF3	GR259884	5022101	27.6KV_1P_2/0_AL_XLPE	Cable	75.3	210.0000				213.4			13.4			6.4			99.82
MWDF3	GR259889	5022102	27.6KV_1P_2/0_AL_XLPE	Cable	224.7	210.0000				197.6			12.4			5.9			99.80
MWDF3	GR259894	5022103	27.6KV_1P_2/0_AL_XLPE	Cable	154.0	210.0000				181.8			11.4			5.4			99.79
MWDF3	GR259899	5022104	27.6KV_1P_2/0_AL_XLPE	Cable	135.9	210.0000				166.0			10.4			5.0			99.79
MWDF3	GR259904	5022105	27.6KV_1P_2/0_AL_XLPE	Cable	132.7	210.0000				150.2			9.4			4.5			99.78
MWDF3	GR259909	5022106	27.6KV_1P_2/0_AL_XLPE	Cable	183.1	210.0000				134.4			8.4			4.0			99.77
MWDF3	GR259914	5022107	27.6KV_1P_2/0_AL_XLPE	Cable	109.0	210.0000				118.5			7.5			3.6			99.77
MWDF3	GR259919	5022108	27.6KV_1P_2/0_AL_XLPE	Cable	92.0	210.0000				102.7			6.5			3.1			99.76
MWDF3	GR259924	5022109	27.6KV_1P_2/0_AL_XLPE	Cable	145.1	210.0000				86.9			5.5			2.6			99.76
MWDF3	GR259929	5022445	27.6KV_1P_2/0_AL_XLPE	Cable	151.4	210.0000				71.1			4.5			2.1			99.75
MWDF3	GR259934	5022446	27.6KV_1P_2/0_AL_XLPE	Cable	204.6	210.0000				55.3			3.5			1.7			99.75
MWDF3	GR259939	5022447	27.6KV_1P_2/0_AL_XLPE	Cable	195.4	210.0000				39.5			2.5			1.2			99.75
MWDF3	GR259944	5022448	27.6KV_1P_2/0_AL_XLPE	Cable	294.3	210.0000				15.8			1.0			0.5			99.75
MWDF3	GR259946	5137994	27.6KV_1P_2/0_AL_XLPE	Cable	148.7	210.0000			101.1			6.5			3.1			98.22	
MWDF3	GR259951	5023718	27.6KV_1P_2/0_AL_XLPE	Cable	252.9	210.0000			79.4			5.1			2.4			98.22	
MWDF3	GR259956	5136136	27.6KV_1P_2/0_AL_XLPE	Cable	157.5	210.0000			57.8			3.7			1.8			98.21	
MWDF3	GR259961	5136137	27.6KV_1P_2/0_AL_XLPE	Cable	137.6	210.0000			43.3			2.8			1.3			98.21	
MWDF3	GR259966	5136138	27.6KV_1P_2/0_AL_XLPE	Cable	133.3	210.0000			28.9			1.8			0.9			98.21	
MWDF3	GR259971	5136139	27.6KV_1P_2/0_AL_XLPE	Cable	125.0	210.0000			14.4			0.9			0.4			98.21	
MWDF3	GR259976	5137604	27.6KV_1P_2/0_AL_XLPE	Cable	321.8	210.0000			0.0			0.0			0.0			98.21	
MWDF3	GR259977	13182374	27.6KV_2P_1/0_AL_TRXLPE	Cable	43.7	180.0000			390.4	305.8		24.7	19.3		13.7	10.7		99.34	99.58
MWDF3	GR259978	13182417	27.6KV_1P_1/0_AL_TRXLPE	Cable	86.2	180.0000			390.3			24.7			13.7			99.32	
MWDF3	GR259983	15443187	27.6KV_1P_1/0_AL_TRXLPE	Cable	99.5	180.0000			368.6			23.3			12.9			99.31	
MWDF3	GR259988	18003296	27.6KV_1P_1/0_AL_TRXLPE	Cable	37.9	180.0000			354.1			22.4			12.4			99.30	
MWDF3	GR259993	18003346	27.6KV_1P_1/0_AL_TRXLPE	Cable	42.4	180.0000			325.2			20.6			11.4			99.30	
MWDF3	GR259998	18004677	27.6KV_1P_1/0_AL_XLPE	Cable	87.2	180.0000			303.5			19.2			10.7			99.29	
MWDF3	GR260003	15443191	27.6KV_1P_1/0_AL_TRXLPE	Cable	74.4	180.0000			289.1			18.3			10.2			99.28	
MWDF3	GR260008	15443192	27.6KV_1P_1/0_AL_TRXLPE	Cable	54.8	180.0000			274.6			17.4			9.6			99.27	
MWDF3	GR260013	15443193	27.6KV_1P_1/0_AL_TRXLPE	Cable	89.6	180.0000			260.1			16.4			9.1			99.26	
MWDF3	GR260018	15443199	27.6KV_1P_1/0_AL_TRXLPE	Cable	98.0	180.0000			245.7			15.5			8.6			99.25	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR260023	13183800	27.6KV_1P_1/0_AL_TRXLPE	Cable	90.0	180.0000			231.2			14.6			8.1			99.24	
MWDF3	GR260028	15499583	27.6KV_1P_1/0_AL_TRXLPE	Cable	139.0	180.0000			216.7			13.7			7.6			99.23	
MWDF3	GR260033	15499694	27.6KV_1P_1/0_AL_TRXLPE	Cable	246.5	180.0000			195.0			12.3			6.9			99.21	
MWDF3	GR260038	15499779	27.6KV_1P_1/0_AL_TRXLPE	Cable	119.7	180.0000			173.3			11.0			6.1			99.20	
MWDF3	GR260043	15499878	27.6KV_1P_1/0_AL_TRXLPE	Cable	91.0	180.0000			151.7			9.6			5.3			99.20	
MWDF3	GR260048	15499854	27.6KV_1P_1/0_AL_TRXLPE	Cable	85.8	180.0000			130.0			8.2			4.6			99.19	
MWDF3	GR260053	15499866	27.6KV_1P_1/0_AL_TRXLPE	Cable	124.0	180.0000			108.3			6.9			3.8			99.19	
MWDF3	GR260058	15499755	27.6KV_1P_1/0_AL_TRXLPE	Cable	101.5	180.0000			93.9			5.9			3.3			99.18	
MWDF3	GR260063	15499764	27.6KV_1P_1/0_AL_TRXLPE	Cable	219.5	180.0000			79.4			5.0			2.8			99.18	
MWDF3	GR260068	15499743	27.6KV_1P_1/0_AL_TRXLPE	Cable	100.8	180.0000			57.8			3.7			2.0			99.18	
MWDF3	GR260073	15499739	27.6KV_1P_1/0_AL_TRXLPE	Cable	47.3	180.0000			43.3			2.7			1.5			99.17	
MWDF3	GR260078	15499716	27.6KV_1P_1/0_AL_TRXLPE	Cable	133.3	180.0000			28.9			1.8			1.0			99.17	
MWDF3	GR260083	15499704	27.6KV_1P_1/0_AL_TRXLPE	Cable	99.8	180.0000			14.4			0.9			0.5			99.17	
MWDF3	GR260087	15433808	27.6KV_1P_1/0_AL_TRXLPE	Cable	97.1	180.0000				305.8			19.3			10.7			99.57
MWDF3	GR260092	15433834	27.6KV_1P_1/0_AL_TRXLPE	Cable	109.9	180.0000				282.1			17.8			9.9			99.55
MWDF3	GR260095	15433934	27.6KV_1P_1/0_AL_TRXLPE	Cable	87.5	180.0000				258.3			16.3			9.0			99.54
MWDF3	GR260098	15433902	27.6KV_1P_1/0_AL_TRXLPE	Cable	73.5	180.0000				234.6			14.8			8.2			99.54
MWDF3	GR260101	15614903	27.6KV_1P_1/0_AL_TRXLPE	Cable	110.2	180.0000				210.9			13.3			7.4			99.53
MWDF3	GR260106	15528634	27.6KV_1P_1/0_AL_TRXLPE	Cable	62.0	180.0000				195.1			12.3			6.8			99.52
MWDF3	GR260111	15528645	27.6KV_1P_1/0_AL_TRXLPE	Cable	79.4	180.0000				171.4			10.8			6.0			99.52
MWDF3	GR260116	15528666	27.6KV_1P_1/0_AL_TRXLPE	Cable	310.4	180.0000				155.5			9.8			5.4			99.50
MWDF3	GR260121	15528700	27.6KV_1P_1/0_AL_XLPE	Cable	122.6	180.0000				102.7			6.5			3.6			99.49
MWDF3	GR260126	15614917	27.6KV_1P_1/0_AL_TRXLPE	Cable	258.9	180.0000				71.1			4.5			2.5			99.49
MWDF3	GR260131	15433869	27.6KV_1P_1/0_AL_TRXLPE	Cable	162.7	180.0000				55.3			3.5			1.9			99.48
MWDF3	GR260136	15433849	27.6KV_1P_1/0_AL_TRXLPE	Cable	140.1	180.0000				31.6			2.0			1.1			99.48
MWDF3	GR260141	13182639	27.6KV_1P_1/0_AL_TRXLPE	Cable	126.0	180.0000				15.8			1.0			0.6			99.48
MWDF3	GR260151	15661943	27.6KV_3P_1/0_AL_XLPE	Cable	8.5	180.0000		99.7	86.7	126.4	6.3	5.5	8.0	3.5	3.0	4.4	99.57	99.46	99.65
MWDF3	GR260152	18117139	27.6KV_3P_500_AL_XLPE	Cable	69.5	400.0000		99.7	86.7	126.4	6.3	5.5	8.0	1.6	1.4	2.0	99.56	99.46	99.64
MWDF3	GR260153	5133716	27.6KV_1P_2/0_AL_XLPE	Cable	423.6	210.0000		99.7			6.3			3.0			99.55		
MWDF3	GR260158	5131695	27.6KV_1P_2/0_AL_XLPE	Cable	65.8	210.0000		87.2			5.5			2.6			99.55		
MWDF3	GR260163	5131895	27.6KV_1P_2/0_AL_XLPE	Cable	66.8	210.0000		74.8			4.7			2.2			99.55		
MWDF3	GR260168	5134785	27.6KV_1P_2/0_AL_XLPE	Cable	54.8	210.0000		62.3			3.9			1.9			99.55		
MWDF3	GR260173	5022342	27.6KV_1P_2/0_AL_XLPE	Cable	52.0	210.0000		49.8			3.1			1.5			99.54		
MWDF3	GR260178	5133783	27.6KV_1P_2/0_AL_XLPE	Cable	55.2	210.0000		37.4			2.4			1.1			99.54		
MWDF3	GR260183	5133784	27.6KV_1P_2/0_AL_XLPE	Cable	134.8	210.0000		24.9			1.6			0.7			99.54		
MWDF3	GR260188	5134607	27.6KV_1P_2/0_AL_XLPE	Cable	95.6	210.0000		12.5			0.8			0.4			99.54		
MWDF3	GR260193	5137255	27.6KV_1P_2/0_AL_XLPE	Cable	55.2	210.0000		0.0			0.0			0.0			99.54		
MWDF3	GR260194	5134419	27.6KV_2P_2/0_AL_XLPE	Cable	24.0	210.0000			86.7	126.4		5.5	8.0		2.6	3.8		99.46	99.64
MWDF3	GR260195	5136398	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				126.4			8.0			3.8			99.64
MWDF3	GR260200	5132694	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				110.6			7.0			3.3			99.64
MWDF3	GR260201	5136399	27.6KV_1P_2/0_AL_XLPE	Cable	14.0	210.0000			86.7			5.5			2.6			99.46	
MWDF3	GR260202	5131721	27.6KV_2P_2/0_AL_XLPE	Cable	83.8	210.0000			86.7	110.6		5.5	7.0		2.6	3.3		99.46	99.64
MWDF3	GR260203	5132695	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				110.6			7.0			3.3			99.64
MWDF3	GR260209	5137247	27.6KV_1P_2/0_AL_XLPE	Cable	114.7	210.0000				94.8			6.0			2.8			99.64
MWDF3	GR260214	5135798	27.6KV_1P_2/0_AL_XLPE	Cable	92.1	210.0000				79.0			5.0			2.4			99.63
MWDF3	GR260219	5132374	27.6KV_1P_2/0_AL_XLPE	Cable	69.7	210.0000				63.2			4.0			1.9			99.63
MWDF3	GR260224	5132742	27.6KV_1P_2/0_AL_XLPE	Cable	55.1	210.0000				47.4			3.0			1.4			99.63
MWDF3	GR260229	5132744	27.6KV_1P_2/0_AL_XLPE	Cable	162.2	210.0000				31.6			2.0			0.9			99.63
MWDF3	GR260234	5136611	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				15.8			1.0			0.5			99.63
MWDF3	GR260235	5132696	27.6KV_1P_2/0_AL_XLPE	Cable	80.8	210.0000			86.7			5.5			2.6			99.45	
MWDF3	GR260240	5134593	27.6KV_1P_2/0_AL_XLPE	Cable	77.4	210.0000			72.2			4.6			2.2			99.45	
MWDF3	GR260245	5134186	27.6KV_1P_2/0_AL_XLPE	Cable	69.2	210.0000			57.8			3.6			1.7			99.45	
MWDF3	GR260246	5134187	27.6KV_2P_2/0_AL_XLPE	Cable	39.3	210.0000			57.8	15.8		3.6	1.0		1.7	0.5		99.45	99.63
MWDF3	GR260247	5134190	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			57.8			3.6			1.7			99.45	
MWDF3	GR260252	5134191	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			43.3			2.7			1.3			99.45	
MWDF3	GR260253	5134192	27.6KV_1P_2/0_AL_XLPE	Cable	12.0	210.0000				15.8			1.0			0.5			99.63
MWDF3	GR260254	5134189	27.6KV_2P_2/0_AL_XLPE	Cable	77.7	210.0000			43.3	15.8		2.7	1.0		1.3	0.5		99.45	99.63
MWDF3	GR260255	5022496	27.6KV_1P_2/0_AL_XLPE	Cable	18.4	210.0000				15.8			1.0			0.5			99.63
MWDF3	GR260256	5134188	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			43.3			2.7			1.3			99.45	
MWDF3	GR260261	5133040	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000			28.9			1.8			0.9			99.45	
MWDF3	GR260262	5132420	27.6KV_2P_2/0_AL_XLPE	Cable	35.2	210.0000			28.9	15.8		1.8	1.0		0.9	0.5		99.45	99.63
MWDF3	GR260263	5131979	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				15.8			1.0			0.5			99.63
MWDF3	GR260267	5132410	27.6KV_1P_2/0_AL_XLPE	Cable	98.1	210.0000			28.9			1.8			0.9			99.45	
MWDF3	GR260272	5132622	27.6KV_1P_2/0_AL_XLPE	Cable	70.5	210.0000			14.4			0.9			0.4			99.45	
MWDF3	GR260276	15661944	27.6KV_3P_1/0_AL_XLPE	Cable	4.9	180.0000		124.6	130.0	221.3	7.9	8.2	13.9	4.4	4.6	7.7	99.57	99.46	99.65
MWDF3	GR260277	18117137	27.6KV_3P_2/0_AL_XLPE	Cable	35.0	210.0000		124.6	130.0	221.3	7.9	8.2	13.9	3.7	3.9	6.6	99.57	99.46	99.64
MWDF3	GR260278	5134416	27.6KV_1P_2/0_AL_XLPE	Cable	73.1	210.0000		124.6			7.9			3.7			99.56		
MWDF3	GR260283	5136227	27.6KV_1P_2/0_AL_XLPE	Cable	74.5	210.0000		105.9			6.7			3.2			99.56		
MWDF3	GR260284	5136228	27.6KV_2P_2/0_AL_XLPE	Cable	1.1	210.0000			130.0	221.3		8.2	13.9		3.9	6.6		99.46	99.64
MWDF3	GR260285	5135090	27.6KV_3P_2/0_AL_XLPE	Cable	90.3	210.0000		105.9	130.0	221.3	6.7	8.2	13.9	3.2	3.9	6.6	99.56	99.46	99.64
MWDF3	GR260286	5136434	27.6KV_1P_2/0_AL_XLPE	Cable	3.8	210.0000		105.9			6.7			3.2			99.56		
MWDF3	GR260291	5136435	27.6KV_1P_2/0_AL_XLPE	Cable	3.8	210.0000		87.2			5.5			2.6			99.56		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR260292	5136436	27.6KV_2P_2/0_AL_XLPE	Cable	15.0	210.0000			130.0	221.3		8.2	13.9		3.9	6.6		99.46	99.64
MWDF3	GR260293	5136631	27.6KV_3P_2/0_AL_XLPE	Cable	52.6	210.0000		87.2	130.0	221.3	5.5	8.2	13.9	2.6	3.9	6.6	99.56	99.45	99.63
MWDF3	GR260294	5136632	27.6KV_1P_2/0_AL_XLPE	Cable	3.8	210.0000		87.2			5.5			2.6			99.56		
MWDF3	GR260299	5136633	27.6KV_1P_2/0_AL_XLPE	Cable	3.8	210.0000		74.8			4.7			2.2			99.56		
MWDF3	GR260300	5136634	27.6KV_2P_2/0_AL_XLPE	Cable	15.2	210.0000			130.0	221.3		8.2	13.9		3.9	6.6		99.45	99.63
MWDF3	GR260301	5136288	27.6KV_3P_2/0_AL_XLPE	Cable	18.3	210.0000		74.8	130.0	221.3	4.7	8.2	13.9	2.2	3.9	6.6	99.56	99.45	99.63
MWDF3	GR260302	5136289	27.6KV_1P_2/0_AL_XLPE	Cable	3.7	210.0000				221.3			13.9			6.6			99.63
MWDF3	GR260307	5135645	27.6KV_1P_2/0_AL_XLPE	Cable	3.8	210.0000				205.5			12.9			6.2			99.63
MWDF3	GR260308	5138099	27.6KV_2P_2/0_AL_XLPE	Cable	15.2	210.0000		74.8	130.0		4.7	8.2		2.2	3.9		99.56	99.45	
MWDF3	GR260309	5136656	27.6KV_3P_2/0_AL_XLPE	Cable	29.2	210.0000		74.8	130.0	205.5	4.7	8.2	12.9	2.2	3.9	6.2	99.56	99.45	99.63
MWDF3	GR260310	5136290	27.6KV_1P_2/0_AL_XLPE	Cable	78.4	210.0000				205.5			12.9			6.2			99.62
MWDF3	GR260315	5136291	27.6KV_1P_2/0_AL_XLPE	Cable	67.4	210.0000				189.7			11.9			5.7			99.62
MWDF3	GR260320	5136292	27.6KV_1P_2/0_AL_XLPE	Cable	89.1	210.0000				173.9			11.0			5.2			99.61
MWDF3	GR260325	5136293	27.6KV_1P_2/0_AL_XLPE	Cable	34.6	210.0000				158.1			10.0			4.7			99.61
MWDF3	GR260330	5136116	27.6KV_1P_2/0_AL_XLPE	Cable	68.3	210.0000				142.3			9.0			4.3			99.61
MWDF3	GR260335	5136117	27.6KV_1P_2/0_AL_XLPE	Cable	67.5	210.0000				126.4			8.0			3.8			99.61
MWDF3	GR260340	5136118	27.6KV_1P_2/0_AL_XLPE	Cable	113.3	210.0000				110.6			7.0			3.3			99.60
MWDF3	GR260345	18113212	27.6KV_1P_2/0_AL_XLPE	Cable	32.7	210.0000				94.8			6.0			2.8			99.60
MWDF3	GR260346	5137556	27.6KV_2P_2/0_AL_XLPE	Cable	2.3	210.0000		74.8	130.0		4.7	8.2		2.2	3.9		99.56	99.45	
MWDF3	GR260347	5137328	27.6KV_3P_2/0_AL_XLPE	Cable	17.0	210.0000		74.8	130.0	94.8	4.7	8.2	6.0	2.2	3.9	2.8	99.56	99.45	99.60
MWDF3	GR260348	5134738	27.6KV_2P_2/0_AL_XLPE	Cable	38.3	210.0000		74.8		94.8	4.7		6.0	2.2		2.8	99.56		99.60
MWDF3	GR260349	5023697	27.6KV_1P_2/0_AL_XLPE	Cable	15.2	210.0000				94.8			6.0			2.8			99.60
MWDF3	GR260350	5135263	27.6KV_1P_2/0_AL_XLPE	Cable	3.6	210.0000		74.8			4.7			2.2			99.56		
MWDF3	GR260355	5138183	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		62.3			3.9			1.9			99.56		
MWDF3	GR260356	5135671	27.6KV_1P_2/0_AL_XLPE	Cable	21.6	210.0000			130.0			8.2			3.9			99.45	
MWDF3	GR260361	5137557	27.6KV_1P_2/0_AL_XLPE	Cable	83.1	210.0000			115.5			7.3			3.5			99.45	
MWDF3	GR260366	5137558	27.6KV_1P_2/0_AL_XLPE	Cable	41.5	210.0000			101.1			6.4			3.0			99.45	
MWDF3	GR260371	5137559	27.6KV_1P_2/0_AL_XLPE	Cable	40.2	210.0000			86.7			5.5			2.6			99.44	
MWDF3	GR260376	5137560	27.6KV_1P_2/0_AL_XLPE	Cable	40.0	210.0000			72.2			4.6			2.2			99.44	
MWDF3	GR260381	5137561	27.6KV_1P_2/0_AL_XLPE	Cable	85.2	210.0000			57.8			3.6			1.7			99.44	
MWDF3	GR260386	5137562	27.6KV_1P_2/0_AL_XLPE	Cable	57.5	210.0000			43.3			2.7			1.3			99.44	
MWDF3	GR260387	5138184	27.6KV_2P_2/0_AL_XLPE	Cable	37.4	210.0000		62.3		94.8	3.9		6.0	1.9		2.8	99.55		99.60
MWDF3	GR260388	5135491	27.6KV_1P_2/0_AL_XLPE	Cable	14.8	210.0000		62.3			3.9			1.9			99.55		
MWDF3	GR260389	5136300	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				94.8			6.0			2.8			99.60
MWDF3	GR260394	5138185	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000				79.0			5.0			2.4			99.60
MWDF3	GR260395	5138186	27.6KV_2P_2/0_AL_XLPE	Cable	66.1	210.0000		62.3		79.0	3.9		5.0	1.9		2.4	99.55		99.60
MWDF3	GR260396	5137942	27.6KV_3P_2/0_AL_XLPE	Cable	25.2	210.0000		62.3	43.3	79.0	3.9	2.7	5.0	1.9	1.3	2.4	99.55	99.44	99.60
MWDF3	GR260397	5137729	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		62.3			3.9			1.9			99.55		
MWDF3	GR260402	5137943	27.6KV_1P_2/0_AL_XLPE	Cable	3.5	210.0000		49.8			3.1			1.5			99.55		
MWDF3	GR260403	5137944	27.6KV_2P_2/0_AL_XLPE	Cable	14.0	210.0000			43.3	79.0		2.7	5.0		1.3	2.4		99.44	99.59
MWDF3	GR260404	5022937	27.6KV_3P_2/0_AL_XLPE	Cable	35.4	210.0000		49.8	43.3	79.0	3.1	2.7	5.0	1.5	1.3	2.4	99.55	99.44	99.59
MWDF3	GR260405	5135213	27.6KV_2P_2/0_AL_XLPE	Cable	91.1	210.0000		49.8		79.0	3.1		5.0	1.5		2.4	99.55		99.59
MWDF3	GR260406	5102672	27.6KV_1P_2/0_AL_XLPE	Cable	16.0	210.0000				79.0			5.0			2.4			99.59
MWDF3	GR260407	5138054	27.6KV_1P_2/0_AL_XLPE	Cable	2.8	210.0000		49.8			3.1			1.5			99.55		
MWDF3	GR260412	5137573	27.6KV_1P_2/0_AL_XLPE	Cable	2.6	210.0000		37.4			2.4			1.1			99.55		
MWDF3	GR260413	5135300	27.6KV_1P_2/0_AL_XLPE	Cable	33.2	210.0000			43.3			2.7			1.3			99.44	
MWDF3	GR260418	5137569	27.6KV_1P_2/0_AL_XLPE	Cable	94.7	210.0000			28.9			1.8			0.9			99.44	
MWDF3	GR260423	5137968	27.6KV_1P_2/0_AL_XLPE	Cable	72.9	210.0000			14.4			0.9			0.4			99.44	
MWDF3	GR260428	5137969	27.6KV_1P_2/0_AL_XLPE	Cable	43.5	210.0000			0.0			0.0			0.0			99.44	
MWDF3	GR260429	5134004	27.6KV_2P_2/0_AL_XLPE	Cable	67.0	210.0000		37.4		79.0	2.4		5.0	1.1		2.4	99.55		99.59
MWDF3	GR260430	5134236	27.6KV_1P_2/0_AL_XLPE	Cable	37.2	210.0000				79.0			5.0			2.4			99.59
MWDF3	GR260435	5134629	27.6KV_1P_2/0_AL_XLPE	Cable	56.3	210.0000				63.2			4.0			1.9			99.59
MWDF3	GR260440	5134238	27.6KV_1P_2/0_AL_XLPE	Cable	42.0	210.0000				47.4			3.0			1.4			99.59
MWDF3	GR260445	5022516	27.6KV_1P_2/0_AL_XLPE	Cable	18.4	210.0000				31.6			2.0			0.9			99.59
MWDF3	GR260450	5134658	27.6KV_1P_2/0_AL_XLPE	Cable	118.4	210.0000				15.8			1.0			0.5			99.59
MWDF3	GR260455	5134659	27.6KV_1P_2/0_AL_XLPE	Cable	108.1	210.0000				0.0			0.0			0.0			99.59
MWDF3	GR260456	5134237	27.6KV_1P_2/0_AL_XLPE	Cable	11.6	210.0000		37.4			2.4			1.1			99.55		
MWDF3	GR260461	5134264	27.6KV_1P_2/0_AL_XLPE	Cable	24.0	210.0000		24.9			1.6			0.7			99.55		
MWDF3	GR260466	5134005	27.6KV_1P_2/0_AL_XLPE	Cable	130.0	210.0000		12.5			0.8			0.4			99.55		
MWDF3	GR260471	5136507	27.6KV_1P_2/0_AL_XLPE	Cable	29.9	210.0000		0.0			0.0			0.0			99.55		
MWDF3	GR260472	5137146	27.6KV_2P_2/0_AL_XLPE	Cable	25.7	210.0000		0.0		0.0	0.0		0.0	0.0		0.0	99.55		99.59
MWDF3	GR260473	5135895	27.6KV_3P_2/0_AL_XLPE	Cable	18.4	210.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.55	99.44	99.59
MWDF3	GR260474	15601720	27.6KV_3P_1/0_AL_XLPE	Cable	21.4	180.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.55	99.44	99.59
MWDF3	GR257074	5101542	27.6KV_3P_Y556_ACSR	Overhead Line	59.7	730.0000		4364.7	5120.9	4744.8	274.0	321.5	297.9	37.5	44.0	40.8	99.95	99.94	99.95
MWDF3	GR257075	12974432	27.6KV_3P_Y556_ACSR	Overhead Line	73.2	730.0000		4363.8	5119.5	4744.0	274.0	321.5	297.9	37.5	44.0	40.8	99.92	99.90	99.93
MWDF3	GR257076	12974435	27.6KV_3P_Y556_ACSR	Overhead Line	19.7	730.0000		4362.7	5117.8	4743.0	274.0	321.5	297.9	37.5	44.0	40.8	99.92	99.89	99.92
MWDF3	GR257077	5101510	27.6KV_3P_Y556_ACSR	Overhead Line	93.0	730.0000		4362.4	5117.4	4742.7	274.0	321.5	297.9	37.5	44.0	40.8	99.89	99.85	99.90
MWDF3	GR257078	5101954	27.6KV_3P_Y556_ACSR	Overhead Line	73.0	730.0000		4361.0	5115.2	4741.4	274.0	321.5	297.9	37.5	44.0	40.8	99.86	99.82	99.87
MWDF3	GR257079	5101955	27.6KV_3P_Y556_ACSR	Overhead Line	75.1	730.0000		4359.9	5113.5	4740.5	274.0	321.5	297.9	37.5	44.0	40.8	99.83	99.78	99.85
MWDF3	GR257080	5101956	27.6KV_3P_Y556_ACSR	Overhead Line	77.6	730.0000		4358.8	5111.8	4739.5	274.0	321.5	297.9	37.5	44.0	40.8	99.81	99.75	99.83
MWDF3	GR257081	12974426	27.6KV_3P_Y556_ACSR	Overhead Line	75.5	730.0000		4357.6	5110.0	4738.4	274.0	321.5	297.9	37.5	44.0	40.8	99.78	99.71	99.81
MWDF3	GR257082	5101320	27.6KV_3P_Y556_ACSR	Overhead Line	78.8	730.0000		4356.5	5108.2	4737.4	274.0	321.5	297.9	37.5	44.0	40.8	99.75	99.68	99.79

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR257083	5101321	27.6KV_3P_Y556_ACSR	Overhead Line	72.3	730.0000		4355.3	5106.4	4736.3	274.0	321.5	297.9	37.5	44.0	40.8	99.73	99.64	99.76
MWDF3	GR257084	5023698	27.6KV_3P_Y556_ACSR	Overhead Line	82.9	730.0000		4354.2	5104.7	4735.4	274.0	321.5	297.9	37.5	44.0	40.8	99.70	99.61	99.74
MWDF3	GR257085	5136740	27.6KV_3P_Y556_ACSR	Overhead Line	48.5	730.0000		4353.0	5102.8	4734.2	274.0	321.5	297.9	37.5	44.0	40.8	99.68	99.59	99.73
MWDF3	GR257086	13080021	27.6KV_3P_Y556_ACSR	Overhead Line	47.5	730.0000		4208.0	4957.5	4589.4	264.9	312.4	288.8	36.3	42.8	39.6	99.67	99.56	99.71
MWDF3	GR257087	13080015	27.6KV_3P_Y556_ACSR	Overhead Line	59.2	730.0000		4207.3	4956.5	4588.8	264.9	312.4	288.8	36.3	42.8	39.6	99.65	99.54	99.70
MWDF3	GR257088	5137143	27.6KV_3P_Y556_ACSR	Overhead Line	64.5	730.0000		4206.5	4955.2	4588.1	264.9	312.4	288.8	36.3	42.8	39.6	99.62	99.51	99.68
MWDF3	GR257089	5137145	27.6KV_3P_Y556_ACSR	Overhead Line	40.6	730.0000		4205.6	4953.8	4579.4	264.9	312.4	288.3	36.3	42.8	39.5	99.61	99.49	99.67
MWDF3	GR257090	11658588	27.6KV_3P_Y556_ACSR	Overhead Line	41.2	730.0000		2464.4	3000.2	2480.3	155.3	189.2	156.2	21.3	25.9	21.4	99.60	99.48	99.66
MWDF3	GR257091	13093891	27.6KV_3P_Y556_ACSR	Overhead Line	49.3	730.0000		2464.2	3000.0	2480.2	155.3	189.2	156.2	21.3	25.9	21.4	99.59	99.47	99.66
MWDF3	GR257092	5022810	27.6KV_3P_Y556_ACSR	Overhead Line	4.0	730.0000		695.7	342.1	490.5	43.8	21.6	30.9	6.0	3.0	4.2	99.59	99.47	99.66
MWDF3	GR257170	11421596	27.6KV_3P_Y1/0_CU	Overhead Line	4.4	530.0000		246.5	45.0	58.6	15.5	2.8	3.7	2.9	0.5	0.7	99.50	99.44	99.64
MWDF3	GR257171	11356981	27.6KV_3P_Y336_AL	Overhead Line	42.3	530.0000		43.5	0.3	0.4	2.7	0.0	0.0	0.5	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257172	11356979	27.6KV_3P_Y336_AL	Overhead Line	42.4	530.0000		43.6	0.3	0.3	2.7	0.0	0.0	0.5	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257173	11356976	27.6KV_3P_Y336_AL	Overhead Line	45.2	530.0000		43.6	0.3	0.3	2.7	0.0	0.0	0.5	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257174	11356973	27.6KV_3P_Y336_AL	Overhead Line	56.5	530.0000		43.6	0.2	0.2	2.7	0.0	0.0	0.5	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257175	11356971	27.6KV_3P_Y336_AL	Overhead Line	59.6	530.0000		43.6	0.2	0.2	2.7	0.0	0.0	0.5	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257176	11356962	27.6KV_3P_Y336_AL	Overhead Line	44.0	530.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257177	11356961	27.6KV_3P_Y336_AL	Overhead Line	52.0	530.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257178	11357129	27.6KV_1P_N1/0_AL	Overhead Line	3.1	530.0000		43.6			2.8			0.5			99.50		
MWDF3	GR257197	11356993	27.6KV_3P_Y336_AL	Overhead Line	56.6	530.0000		203.0	45.1	58.7	12.8	2.8	3.7	2.4	0.5	0.7	99.50	99.44	99.64
MWDF3	GR257198	11356864	27.6KV_3P_Y336_AL	Overhead Line	61.4	530.0000		203.1	45.1	58.7	12.8	2.8	3.7	2.4	0.5	0.7	99.49	99.44	99.64
MWDF3	GR257199	11356854	JUMPER	Overhead Line	0.0	600.0000		203.1	45.1	58.8	12.8	2.8	3.7	2.1	0.5	0.6	99.49	99.44	99.64
MWDF3	GR257200	11233886	27.6KV_3P_Y336_AL	Overhead Line	45.8	530.0000		203.1	45.1	58.8	12.8	2.8	3.7	2.4	0.5	0.7	99.49	99.45	99.64
MWDF3	GR257201	18146003	27.6KV_1P_N1/0_AL	Overhead Line	5.4	530.0000		83.2			5.3			1.0			99.49		
MWDF3	GR257211	5137013	27.6KV_3P_Y336_AL	Overhead Line	53.1	530.0000		119.8	45.2	58.8	7.6	2.8	3.7	1.4	0.5	0.7	99.49	99.45	99.64
MWDF3	GR257212	11348512	27.6KV_3P_Y336_AL	Overhead Line	54.3	530.0000		78.2	45.2	58.8	4.9	2.9	3.7	0.9	0.5	0.7	99.49	99.45	99.64
MWDF3	GR257213	5022090	27.6KV_1P_Y336_AL	Overhead Line	2.8	530.0000		24.9			1.6			0.3			99.49		
MWDF3	GR257218	5137631	27.6KV_3P_Y336_AL	Overhead Line	77.6	530.0000		53.3	45.2	58.8	3.4	2.9	3.7	0.6	0.5	0.7	99.49	99.45	99.64
MWDF3	GR257219	5023235	27.6KV_3P_Y336_AL	Overhead Line	3.1	530.0000		51.3	42.9	48.3	3.2	2.7	3.0	0.6	0.5	0.6	99.49	99.45	99.64
MWDF3	GR257224	5131694	27.6KV_3P_Y336_AL	Overhead Line	2.6	530.0000		2.0	2.4	10.5	0.1	0.1	0.7	0.0	0.0	0.1	99.49	99.45	99.64
MWDF3	GR257225	11340029	27.6KV_3P_Y336_AL	Overhead Line	75.7	530.0000		0.2	0.2	7.8	0.0	0.0	0.5	0.0	0.0	0.1	99.49	99.45	99.64
MWDF3	GR257226	5133093	27.6KV_3P_Y336_AL	Overhead Line	74.8	530.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	99.49	99.45	99.64
MWDF3	GR257227	5136475	27.6KV_3P_Y336_AL	Overhead Line	82.8	530.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.49	99.45	99.64
MWDF3	GR257235	18146053	27.6KV_1P_Y1/0_AL	Overhead Line	4.9	230.0000		41.6			2.6			1.1			99.49		
MWDF3	GR257243	5132739	27.6KV_3P_Y336_AL	Overhead Line	4.3	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.49	99.44	99.64
MWDF3	GR257244	11356858	27.6KV_3P_Y336_AL	Overhead Line	1.8	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.49	99.44	99.64
MWDF3	GR257245	11357041	27.6KV_3P_Y336_AL	Overhead Line	23.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257246	11367823	27.6KV_3P_Y336_AL	Overhead Line	20.2	530.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257247	11356862	27.6KV_3P_Y336_AL	Overhead Line	34.9	530.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257248	11356849	27.6KV_3P_Y336_AL	Overhead Line	44.2	530.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257249	11553451	27.6KV_3P_Y336_AL	Overhead Line	52.3	530.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257250	11553452	27.6KV_3P_Y336_AL	Overhead Line	76.7	530.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.50	99.44	99.64
MWDF3	GR257272	5135147	27.6KV_3P_Y556_ACSR	Overhead Line	17.9	730.0000		1768.4	2657.6	1989.6	111.4	167.7	125.3	15.3	23.0	17.2	99.59	99.47	99.66
MWDF3	GR257273	11563574	27.6KV_3P_Y556_ACSR	Overhead Line	4.4	730.0000		502.4	455.4	394.5	31.7	28.7	24.8	4.3	3.9	3.4	99.59	99.47	99.66
MWDF3	GR257275	11544911	27.6KV_3P_Y336_AL	Overhead Line	5.3	530.0000		502.3	455.4	394.4	31.7	28.7	24.8	6.0	5.4	4.7	99.58	99.46	99.65
MWDF3	GR257276	11544862	27.6KV_3P_Y336_AL	Overhead Line	6.5	530.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.58	99.46	99.65
MWDF3	GR257277	11544863	27.6KV_3P_Y556_ACSR	Overhead Line	56.0	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.58	99.46	99.65
MWDF3	GR257278	11544870	27.6KV_3P_Y556_ACSR	Overhead Line	49.1	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.58	99.46	99.65
MWDF3	GR257279	11555001	27.6KV_3P_Y556_ACSR	Overhead Line	50.5	730.0000		502.4	455.4	394.5	31.7	28.7	24.8	4.3	3.9	3.4	99.58	99.46	99.65
MWDF3	GR257280	11544861	27.6KV_3P_Y556_ACSR	Overhead Line	55.1	730.0000		502.4	455.4	394.5	31.7	28.7	24.8	4.3	3.9	3.4	99.57	99.46	99.65
MWDF3	GR257281	11544860	27.6KV_3P_Y556_ACSR	Overhead Line	54.9	730.0000		502.4	455.4	394.5	31.7	28.7	24.8	4.3	3.9	3.4	99.57	99.45	99.65
MWDF3	GR257282	11544859	27.6KV_3P_Y556_ACSR	Overhead Line	50.1	730.0000		502.4	455.4	394.5	31.7	28.7	24.8	4.3	3.9	3.4	99.57	99.45	99.65
MWDF3	GR257283	11544858	27.6KV_3P_Y556_ACSR	Overhead Line	48.3	730.0000		502.4	455.5	394.5	31.7	28.7	24.8	4.3	3.9	3.4	99.57	99.45	99.64
MWDF3	GR257284	11544857	27.6KV_3P_Y556_ACSR	Overhead Line	55.6	730.0000		502.4	455.5	386.6	31.7	28.7	24.3	4.3	3.9	3.3	99.56	99.45	99.64
MWDF3	GR257285	11544856	27.6KV_3P_Y556_ACSR	Overhead Line	59.2	730.0000		502.4	455.5	386.6	31.7	28.7	24.3	4.3	3.9	3.3	99.56	99.45	99.64
MWDF3	GR257286	11557149	27.6KV_3P_Y556_ACSR	Overhead Line	42.3	730.0000		466.5	419.6	350.7	29.4	26.5	22.1	4.0	3.6	3.0	99.56	99.45	99.64
MWDF3	GR257287	11612285	27.6KV_3P_Y556_ACSR	Overhead Line	41.3	730.0000		466.5	419.6	350.7	29.4	26.5	22.1	4.0	3.6	3.0	99.56	99.45	99.64
MWDF3	GR257288	11612275	27.6KV_3P_Y556_ACSR	Overhead Line	52.1	730.0000		466.5	419.6	350.7	29.4	26.5	22.1	4.0	3.6	3.0	99.56	99.45	99.64
MWDF3	GR257289	11612268	27.6KV_3P_Y556_ACSR	Overhead Line	54.9	730.0000		466.5	419.6	350.7	29.4	26.5	22.1	4.0	3.6	3.0	99.55	99.45	99.63
MWDF3	GR257290	11612258	27.6KV_3P_Y556_ACSR	Overhead Line	52.5	730.0000		466.5	419.6	350.7	29.4	26.5	22.1	4.0	3.6	3.0	99.55	99.44	99.63
MWDF3	GR257291	11612233	27.6KV_3P_Y556_ACSR	Overhead Line	55.6	730.0000		464.0	419.6	350.7	29.2	26.5	22.1	4.0	3.6	3.0	99.55	99.44	99.63
MWDF3	GR257292	11612229	27.6KV_3P_Y556_ACSR	Overhead Line	51.8	730.0000		434.4	390.1	321.2	27.4	24.6	20.2	3.8	3.4	2.8	99.55	99.44	99.63
MWDF3	GR257293	11557148	27.6KV_3P_Y556_ACSR	Overhead Line	53.0	730.0000		434.4	390.1	321.2	27.4	24.6	20.2	3.8	3.4	2.8	99.54	99.44	99.63
MWDF3	GR257294	11557147	27.6KV_3P_Y556_ACSR	Overhead Line	61.0	730.0000		434.4	390.1	321.2	27.4	24.6	20.2	3.8	3.4	2.8	99.54	99.44	99.63
MWDF3	GR257295	11557146	27.6KV_3P_Y556_ACSR	Overhead Line	59.4	730.0000		434.4	390.1	321.2	27.4	24.6	20.2	3.8	3.4	2.8	99.54	99.44	99.63
MWDF3	GR257296	11557088	27.6KV_3P_Y556_ACSR	Overhead Line	57.9	730.0000		434.4	390.2	321.2	27.4	24.6	20.2	3.8	3.4	2.8	99.54	99.44	99.63
MWDF3	GR257297	11557087	27.6KV_3P_Y556_ACSR	Overhead Line	57.0	730.0000		434.4	390.2	321.2	27.4	24.6	20.2	3.8	3.4	2.8	99.53	99.44	99.62
MWDF3	GR257298	11557085	27.6KV_3P_Y556_ACSR	Overhead Line	55.6	730.0000		434.4	390.2	321.2	27.4	24.6	20.2	3.8	3.4	2.8	99.53	99.44	99.62
MWDF3	GR257299	11557083	27.6KV_3P_Y556_ACSR	Overhead Line	60.7	730.0000		434.4	390.2	321.2	27.4	24.6	20.2	3.8	3.4	2.8	99.53	99.44	99.62
MWDF3	GR257300	11557082	27.6KV_3P_Y556_ACSR	Overhead Line	52.9	730.0000		434.4	390.2	321.2	27.4	24.6	20.2	3.8	3.4	2.8	99.53	99.44	99.62
MWDF3	GR257301	11557080	27.6KV_3P_Y556_ACSR	Overhead Line	50.0	730.0000		428.2	390.2	321.2	27.0	24.6	20.2	3.7	3.4	2.8	99.53	99.43	99.62
MWDF3	GR257302	11557078	27.6KV_3P_Y556_ACSR	Overhead Line	59.8	730.0000		428.2	390.2	321.2	27.0	24.6	20.2	3.7	3.4	2.8	99.52	99.43	99.62

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR257303	11557074	27.6KV_3P_Y556_ACSR	Overhead Line	61.0	730.0000		428.2	390.2	321.2	27.0	24.6	20.2	3.7	3.4	2.8	99.52	99.43	99.62
MWDF3	GR257304	11557069	27.6KV_3P_N556_ACSR	Overhead Line	56.1	730.0000		428.2	390.2	321.3	27.0	24.6	20.2	3.7	3.4	2.8	99.52	99.43	99.61
MWDF3	GR257305	11557067	27.6KV_3P_N556_ACSR	Overhead Line	62.2	730.0000		428.2	390.2	321.3	27.0	24.6	20.2	3.7	3.4	2.8	99.52	99.43	99.61
MWDF3	GR257306	11557065	27.6KV_3P_N556_ACSR	Overhead Line	61.2	730.0000		428.2	390.2	321.3	27.0	24.6	20.2	3.7	3.4	2.8	99.51	99.43	99.61
MWDF3	GR257307	11557061	27.6KV_3P_Y556_ACSR	Overhead Line	58.7	730.0000		428.2	390.2	321.3	27.0	24.6	20.2	3.7	3.4	2.8	99.51	99.43	99.61
MWDF3	GR257308	11557060	27.6KV_3P_Y556_ACSR	Overhead Line	31.3	730.0000		428.2	390.3	321.3	27.0	24.6	20.2	3.7	3.4	2.8	99.51	99.43	99.61
MWDF3	GR257309	13522527	27.6KV_3P_N556_ACSR	Overhead Line	50.2	730.0000		428.2	390.3	321.3	27.0	24.6	20.2	3.7	3.4	2.8	99.51	99.43	99.61
MWDF3	GR257310	13522525	27.6KV_3P_N556_ACSR	Overhead Line	53.4	730.0000		428.2	390.3	321.3	27.0	24.6	20.2	3.7	3.4	2.8	99.51	99.43	99.61
MWDF3	GR257311	13515181	27.6KV_3P_Y556_ACSR	Overhead Line	55.0	730.0000		428.2	390.3	321.3	27.0	24.6	20.2	3.7	3.4	2.8	99.50	99.43	99.61
MWDF3	GR257312	13515180	27.6KV_3P_Y556_ACSR	Overhead Line	48.0	730.0000		422.0	390.3	321.3	26.6	24.6	20.2	3.6	3.4	2.8	99.50	99.42	99.61
MWDF3	GR257313	13515122	27.6KV_3P_Y556_ACSR	Overhead Line	54.9	730.0000		422.0	390.3	321.3	26.6	24.6	20.2	3.6	3.4	2.8	99.50	99.42	99.60
MWDF3	GR257314	13515100	27.6KV_3P_Y556_ACSR	Overhead Line	49.9	730.0000		422.0	390.3	321.3	26.6	24.6	20.2	3.6	3.4	2.8	99.50	99.42	99.60
MWDF3	GR257315	13515020	27.6KV_3P_Y556_ACSR	Overhead Line	55.0	730.0000		422.0	390.3	321.3	26.6	24.6	20.2	3.6	3.4	2.8	99.50	99.42	99.60
MWDF3	GR257316	13515000	27.6KV_3P_Y556_ACSR	Overhead Line	40.1	730.0000		422.0	390.3	321.3	26.6	24.6	20.2	3.6	3.4	2.8	99.49	99.42	99.60
MWDF3	GR257317	13514900	27.6KV_3P_N556_ACSR	Overhead Line	44.8	730.0000		422.0	390.3	321.3	26.6	24.6	20.2	3.6	3.4	2.8	99.49	99.42	99.60
MWDF3	GR257318	13514880	27.6KV_3P_Y556_ACSR	Overhead Line	56.8	730.0000		422.0	390.3	321.4	26.6	24.6	20.2	3.6	3.4	2.8	99.49	99.42	99.60
MWDF3	GR257319	13514840	27.6KV_3P_N556_ACSR	Overhead Line	42.2	730.0000		422.0	390.3	321.4	26.6	24.6	20.2	3.6	3.4	2.8	99.49	99.42	99.60
MWDF3	GR257320	13514820	27.6KV_3P_Y556_ACSR	Overhead Line	45.0	730.0000		422.0	390.3	321.4	26.6	24.6	20.2	3.6	3.4	2.8	99.49	99.42	99.60
MWDF3	GR257321	13508280	27.6KV_3P_Y556_ACSR	Overhead Line	55.1	730.0000		422.0	390.3	321.4	26.6	24.6	20.2	3.6	3.4	2.8	99.48	99.42	99.60
MWDF3	GR257322	13508241	27.6KV_3P_Y556_ACSR	Overhead Line	55.3	730.0000		422.0	390.3	321.4	26.6	24.6	20.3	3.6	3.4	2.8	99.48	99.42	99.59
MWDF3	GR257323	13508220	27.6KV_3P_Y556_ACSR	Overhead Line	49.9	730.0000		422.0	390.4	321.4	26.6	24.6	20.3	3.6	3.4	2.8	99.48	99.42	99.59
MWDF3	GR257324	13508202	27.6KV_3P_Y556_ACSR	Overhead Line	54.7	730.0000		422.0	390.4	321.4	26.6	24.6	20.3	3.6	3.4	2.8	99.48	99.41	99.59
MWDF3	GR257325	13508140	27.6KV_3P_Y556_ACSR	Overhead Line	45.6	730.0000		422.0	390.4	321.4	26.6	24.6	20.3	3.6	3.4	2.8	99.48	99.41	99.59
MWDF3	GR257326	13508121	27.6KV_3P_Y556_ACSR	Overhead Line	45.5	730.0000		422.0	390.4	321.4	26.6	24.6	20.3	3.6	3.4	2.8	99.47	99.41	99.59
MWDF3	GR257327	13508060	27.6KV_3P_Y556_ACSR	Overhead Line	54.6	730.0000		422.0	390.4	321.4	26.6	24.6	20.3	3.6	3.4	2.8	99.47	99.41	99.59
MWDF3	GR257328	13508040	27.6KV_3P_Y556_ACSR	Overhead Line	48.5	730.0000		422.0	390.4	321.4	26.6	24.6	20.3	3.6	3.4	2.8	99.47	99.41	99.59
MWDF3	GR257329	13507960	27.6KV_3P_Y556_ACSR	Overhead Line	54.3	730.0000		422.0	390.4	321.4	26.6	24.6	20.3	3.6	3.4	2.8	99.47	99.41	99.59
MWDF3	GR257330	13507940	27.6KV_3P_Y556_ACSR	Overhead Line	49.4	730.0000		228.8	390.4	321.4	14.4	24.6	20.3	2.0	3.4	2.8	99.47	99.41	99.59
MWDF3	GR257331	13507880	27.6KV_3P_Y556_ACSR	Overhead Line	55.1	730.0000		228.9	390.4	321.4	14.4	24.6	20.3	2.0	3.4	2.8	99.47	99.41	99.59
MWDF3	GR257332	13507801	27.6KV_3P_N556_ACSR	Overhead Line	49.7	730.0000		8.6	390.4	321.5	0.5	24.6	20.3	0.1	3.4	2.8	99.47	99.40	99.59
MWDF3	GR257333	13507680	27.6KV_3P_Y556_ACSR	Overhead Line	54.8	730.0000		8.6	390.4	321.5	0.5	24.6	20.3	0.1	3.4	2.8	99.47	99.40	99.59
MWDF3	GR257334	13487739	27.6KV_3P_Y556_ACSR	Overhead Line	43.0	730.0000		8.6	390.4	321.5	0.5	24.6	20.3	0.1	3.4	2.8	99.47	99.40	99.59
MWDF3	GR257335	13487733	27.6KV_3P_Y556_ACSR	Overhead Line	40.4	730.0000		8.6	390.4	321.5	0.5	24.6	20.3	0.1	3.4	2.8	99.47	99.39	99.59
MWDF3	GR257336	13487732	27.6KV_3P_Y556_ACSR	Overhead Line	49.0	730.0000		8.6	390.4	321.5	0.5	24.6	20.3	0.1	3.4	2.8	99.47	99.39	99.59
MWDF3	GR257337	13486101	27.6KV_3P_Y556_ACSR	Overhead Line	39.8	730.0000		8.6	390.4	321.5	0.5	24.6	20.3	0.1	3.4	2.8	99.47	99.39	99.59
MWDF3	GR257338	13485780	27.6KV_3P_Y556_ACSR	Overhead Line	43.0	730.0000		8.6	390.4	321.5	0.5	24.7	20.3	0.1	3.4	2.8	99.47	99.38	99.59
MWDF3	GR257339	13484980	27.6KV_3P_Y556_ACSR	Overhead Line	56.3	730.0000		8.6	390.4	321.5	0.5	24.7	20.3	0.1	3.4	2.8	99.47	99.38	99.59
MWDF3	GR257340	13467728	27.6KV_3P_Y556_ACSR	Overhead Line	48.9	730.0000		2.4	390.4	321.5	0.2	24.7	20.3	0.0	3.4	2.8	99.47	99.38	99.59
MWDF3	GR257341	13467707	27.6KV_3P_Y556_ACSR	Overhead Line	54.8	730.0000		2.4	390.4	321.6	0.2	24.7	20.3	0.0	3.4	2.8	99.47	99.37	99.59
MWDF3	GR257342	13467694	27.6KV_3P_Y556_ACSR	Overhead Line	49.9	730.0000		2.4	390.4	321.6	0.2	24.7	20.3	0.0	3.4	2.8	99.47	99.37	99.59
MWDF3	GR257343	13467675	27.6KV_3P_Y556_ACSR	Overhead Line	58.9	730.0000		2.4	390.4	321.6	0.2	24.7	20.3	0.0	3.4	2.8	99.47	99.37	99.59
MWDF3	GR257344	13467663	27.6KV_3P_N556_ACSR	Overhead Line	53.7	730.0000		2.4	390.4	321.6	0.2	24.7	20.3	0.0	3.4	2.8	99.47	99.36	99.59
MWDF3	GR257345	13215622	DEFAULT	Overhead Line	10.6	1000.0000			390.4	321.7		24.7	20.3		2.5	2.0		99.36	99.59
MWDF3	GR257354	13467659	27.6KV_3P_Y556_ACSR	Overhead Line	51.3	730.0000		2.5	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	99.47	99.36	99.59
MWDF3	GR257355	13467658	27.6KV_3P_Y556_ACSR	Overhead Line	54.9	730.0000		2.5	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	99.47	99.36	99.59
MWDF3	GR257356	13467654	27.6KV_3P_Y556_ACSR	Overhead Line	56.9	730.0000		2.5	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	99.47	99.36	99.59
MWDF3	GR257357	13467653	27.6KV_3P_Y556_ACSR	Overhead Line	56.5	730.0000		2.5	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	99.47	99.36	99.59
MWDF3	GR257358	15574470	27.6KV_3P_Y556_ACSR	Overhead Line	40.4	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.47	99.36	99.59
MWDF3	GR257359	15514109	27.6KV_3P_Y556_ASC	Overhead Line	12.2	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.47	99.36	99.59
MWDF3	GR257360	15574504	27.6KV_3P_Y556_ACSR	Overhead Line	6.4	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.47	99.36	99.59
MWDF3	GR257365	19047348	27.6KV_1P_N556_ACSR	Overhead Line	6.7	730.0000		220.3			13.9			1.9			99.47		
MWDF3	GR257407	19047272	27.6KV_1P_N556_ACSR	Overhead Line	1.0	730.0000		193.2			12.2			1.7			99.47		
MWDF3	GR257453	16457549	27.6KV_3P_Y1/0_AL	Overhead Line	4.5	530.0000		30.6	30.6	30.6	1.9	1.9	1.9	0.4	0.4	0.4	99.55	99.44	99.63
MWDF3	GR257461	15439096	27.6KV_3P_Y1/0_AL	Overhead Line	3.4	530.0000		37.0	37.0	37.0	2.3	2.3	2.3	0.4	0.4	0.4	99.56	99.45	99.64
MWDF3	GR257469	11625909	27.6KV_3P_Y556_ACSR	Overhead Line	52.1	730.0000		1266.3	2202.2	1595.4	79.8	138.9	100.5	10.9	19.0	13.8	99.58	99.45	99.66
MWDF3	GR257470	5135304	27.6KV_3P_Y556_ACSR	Overhead Line	66.1	730.0000		1266.3	2201.9	1595.4	79.8	138.9	100.5	10.9	19.0	13.8	99.57	99.44	99.66
MWDF3	GR257471	5135631	27.6KV_3P_Y556_ACSR	Overhead Line	70.2	730.0000		1266.2	2201.6	1595.4	79.8	138.9	100.5	10.9	19.0	13.8	99.57	99.42	99.66
MWDF3	GR257472	5135629	27.6KV_3P_Y556_ACSR	Overhead Line	70.4	730.0000		1266.1	2201.3	1595.4	79.8	138.9	100.5	10.9	19.0	13.8	99.56	99.41	99.66
MWDF3	GR257473	5135627	27.6KV_3P_Y556_ACSR	Overhead Line	77.4	730.0000		1266.0	2200.9	1595.4	79.8	138.9	100.5	10.9	19.0	13.8	99.55	99.39	99.66
MWDF3	GR257474	5132481	27.6KV_3P_Y556_ACSR	Overhead Line	69.5	730.0000		1265.9	2200.6	1595.4	79.8	138.9	100.5	10.9	19.0	13.8	99.54	99.37	99.65
MWDF3	GR257475	11580934	27.6KV_3P_Y556_ACSR	Overhead Line	5.1	730.0000		1265.8	2200.2	1595.4	79.8	138.9	100.5	10.9	19.0	13.8	99.54	99.37	99.65
MWDF3	GR257476	5132482	27.6KV_3P_Y556_ACSR	Overhead Line	58.4	730.0000		1191.0	2156.9	1350.4	75.1	136.2	85.0	10.3	18.7	11.6	99.53	99.36	99.66
MWDF3	GR257477	5132483	27.6KV_3P_Y556_ACSR	Overhead Line	72.2	730.0000		1190.9	2156.6	1350.4	75.1	136.2	85.0	10.3	18.7	11.6	99.52	99.35	99.66
MWDF3	GR257478	5132484	27.6KV_3P_Y556_ACSR	Overhead Line	69.3	730.0000		1190.8	2156.3	1350.4	75.1	136.2	85.0	10.3	18.7	11.6	99.51	99.33	99.66
MWDF3	GR257479	5132485	27.6KV_3P_Y556_ACSR	Overhead Line	73.1	730.0000		1190.7	2156.0	1350.4	75.1	136.2	85.0	10.3	18.7	11.6	99.50	99.32	99.66
MWDF3	GR257480	5132486	27.6KV_3P_Y556_ACSR	Overhead Line	71.8	730.0000		1190.6	2155.7	1350.5	75.1	136.2	85.0	10.3	18.7	11.6	99.49	99.30	99.66
MWDF3	GR257481	5132487	27.6KV_3P_Y556_ACSR	Overhead Line	70.0	730.0000		1190.5	2155.4	1350.5	75.1	136.2	85.0	10.3	18.7	11.6	99.48	99.29	99.66
MWDF3	GR257482	11332712	27.6KV_3P_N556_ACSR	Overhead Line	8.8	730.0000		1190.4	2155.1	1350.6	75.1	136.2	85.0	10.3	18.7	11.6	99.48	99.29	99.66
MWDF3	GR257486	11332793	27.6KV_3P_N556_AL	Overhead Line	5.0	730.0000		1190.1	2153.6	1350.0	75.1	136.2	85.0	10.3	18.7	11.6	99.45	99.22	99.62
MWDF3	GR257487	11332785	27.6KV_3P_Y3/0_AL	Overhead Line	40.4	530.0000		1134.0	2110.3	1191.9	71.6	133.5	75.1	13.5	25.2	14.2	99.44	99.21	99.62
MWDF3	GR257488	11375275	27.6KV_3P_Y3/0_AL	Overhead Line	4.7	530.0000		1133.9	2110.1	1191.9	71.6	133.5	75.1	13.5	25.2	14.2	99.44	99.21	99.62
MWDF3	GR257489	11332934	27.6KV_3P_Y3/0_AL	Overhead Line	4.7	530.0000		1133.9	2110.0	1191.9	71.6	133.5	75.1	13.5	25.2	14.2	99.44	99.20	99.62

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR257490	11375273	27.6KV_3P_Y3/0_AL	Overhead Line	45.2	530.0000		1133.9	2110.0	1191.9	71.6	133.5	75.1	13.5	25.2	14.2	99.43	99.19	99.62
MWDF3	GR257491	5100031	27.6KV_3P_Y3/0_AL	Overhead Line	79.3	530.0000		1133.8	2109.8	1192.0	71.6	133.5	75.1	13.5	25.2	14.2	99.42	99.17	99.62
MWDF3	GR257492	5100032	27.6KV_3P_Y3/0_AL	Overhead Line	79.3	530.0000		1133.7	2109.4	1192.0	71.6	133.5	75.1	13.5	25.2	14.2	99.41	99.15	99.62
MWDF3	GR257493	5100033	27.6KV_3P_Y3/0_AL	Overhead Line	78.1	530.0000		1133.5	2109.0	1192.0	71.6	133.5	75.1	13.5	25.2	14.2	99.39	99.13	99.62
MWDF3	GR257494	5100034	27.6KV_3P_Y3/0_AL	Overhead Line	46.9	530.0000		1133.4	2108.6	1192.0	71.6	133.5	75.1	13.5	25.2	14.2	99.38	99.12	99.62
MWDF3	GR257495	18031192	27.6KV_3P_Y3/0_AL	Overhead Line	31.1	530.0000		1133.3	2108.3	1192.0	71.6	133.5	75.1	13.5	25.2	14.2	99.38	99.11	99.62
MWDF3	GR257496	5022364	27.6KV_3P_Y3/0_AL	Overhead Line	79.0	530.0000		1133.3	2108.1	1184.2	71.6	133.5	74.6	13.5	25.2	14.1	99.36	99.09	99.62
MWDF3	GR257497	5100036	27.6KV_3P_Y3/0_AL	Overhead Line	77.3	530.0000		1133.1	2107.7	1184.2	71.6	133.5	74.6	13.5	25.2	14.1	99.35	99.07	99.62
MWDF3	GR257498	5100037	27.6KV_3P_Y3/0_AL	Overhead Line	81.9	530.0000		1133.0	2107.3	1184.2	71.6	133.5	74.6	13.5	25.2	14.1	99.33	99.05	99.62
MWDF3	GR257499	5100038	27.6KV_3P_Y3/0_AL	Overhead Line	47.7	530.0000		1132.8	2102.6	1179.5	71.6	133.2	74.3	13.5	25.1	14.0	99.33	99.04	99.62
MWDF3	GR257500	5024069	27.6KV_3P_Y3/0_AL	Overhead Line	48.0	530.0000		1132.7	2102.3	1179.5	71.6	133.2	74.3	13.5	25.1	14.0	99.32	99.03	99.62
MWDF3	GR257501	5137822	27.6KV_3P_Y3/0_AL	Overhead Line	65.0	530.0000		1132.6	2102.1	1171.6	71.6	133.2	73.8	13.5	25.1	13.9	99.31	99.01	99.63
MWDF3	GR257502	5137824	27.6KV_3P_Y3/0_AL	Overhead Line	65.0	530.0000		1132.5	2101.8	1171.7	71.6	133.2	73.8	13.5	25.1	13.9	99.29	98.99	99.63
MWDF3	GR257503	5137829	27.6KV_3P_Y3/0_AL	Overhead Line	71.8	530.0000		1132.4	2101.4	1171.7	71.6	133.2	73.8	13.5	25.1	13.9	99.28	98.98	99.63
MWDF3	GR257504	11233992	27.6KV_1P_Y1/0_AL	Overhead Line	4.6	230.0000				15.8			1.0			0.4			99.63
MWDF3	GR257505	11234016	27.6KV_1P_Y1/0_AL	Overhead Line	76.1	230.0000				15.8			1.0			0.4			99.63
MWDF3	GR257508	5137830	27.6KV_3P_Y3/0_AL	Overhead Line	58.1	530.0000		1132.3	2101.0	1155.9	71.6	133.2	72.8	13.5	25.1	13.7	99.27	98.96	99.63
MWDF3	GR257509	5137987	27.6KV_3P_Y3/0_AL	Overhead Line	37.2	530.0000		1132.1	2100.7	1155.9	71.6	133.2	72.8	13.5	25.1	13.7	99.26	98.95	99.63
MWDF3	GR257510	5023475	27.6KV_3P_Y3/0_AL	Overhead Line	39.3	530.0000		1132.1	2100.6	1156.0	71.6	133.2	72.8	13.5	25.1	13.7	99.26	98.94	99.63
MWDF3	GR257511	5023476	27.6KV_3P_Y3/0_AL	Overhead Line	36.4	530.0000		1132.0	2100.4	1156.0	71.6	133.2	72.8	13.5	25.1	13.7	99.25	98.93	99.63
MWDF3	GR257512	5023477	27.6KV_3P_Y3/0_AL	Overhead Line	61.2	530.0000		1131.9	2100.2	1156.0	71.6	133.2	72.8	13.5	25.1	13.7	99.24	98.92	99.63
MWDF3	GR257513	5023478	27.6KV_3P_Y3/0_AL	Overhead Line	63.4	530.0000		1131.8	2099.9	1156.0	71.6	133.2	72.8	13.5	25.1	13.7	99.23	98.90	99.63
MWDF3	GR257515	11232368	27.6KV_3P_Y3/0_AL	Overhead Line	1.7	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.23	98.90	99.63
MWDF3	GR257516	11232433	27.6KV_3P_Y3/0_AL	Overhead Line	34.6	530.0000		1131.7	2099.5	1156.0	71.6	133.2	72.8	13.5	25.1	13.7	99.22	98.89	99.63
MWDF3	GR257517	12982748	27.6KV_1P_Y1/0_AL	Overhead Line	5.0	230.0000				31.6			2.0			0.9			99.63
MWDF3	GR257518	13153412	27.6KV_1P_Y1/0_AL	Overhead Line	40.8	230.0000				31.6			2.0			0.9			99.63
MWDF3	GR257519	13153573	27.6KV_1P_Y1/0_AL	Overhead Line	58.4	230.0000				31.6			2.0			0.9			99.63
MWDF3	GR257520	13153476	27.6KV_1P_Y1/0_AL	Overhead Line	61.6	230.0000				7.9			0.5			0.2			99.63
MWDF3	GR257521	13153548	27.6KV_1P_Y1/0_AL	Overhead Line	59.6	230.0000				7.9			0.5			0.2			99.63
MWDF3	GR257522	13153554	27.6KV_1P_Y1/0_AL	Overhead Line	32.0	230.0000				7.9			0.5			0.2			99.63
MWDF3	GR257527	5023481	27.6KV_3P_Y3/0_AL	Overhead Line	60.1	530.0000		1131.6	2099.3	1124.5	71.6	133.2	70.8	13.5	25.1	13.4	99.21	98.88	99.63
MWDF3	GR257528	5023482	27.6KV_3P_Y3/0_AL	Overhead Line	73.2	530.0000		1002.6	2099.0	1124.5	63.4	133.2	70.8	12.0	25.1	13.4	99.20	98.86	99.63
MWDF3	GR257529	5023483	27.6KV_3P_Y3/0_AL	Overhead Line	74.5	530.0000		1002.5	2098.6	1124.5	63.4	133.2	70.8	12.0	25.1	13.4	99.18	98.84	99.63
MWDF3	GR257530	5023484	27.6KV_3P_Y3/0_AL	Overhead Line	79.2	530.0000		1002.4	2098.2	1124.6	63.4	133.2	70.8	12.0	25.1	13.4	99.17	98.82	99.64
MWDF3	GR257531	5023485	27.6KV_3P_Y3/0_AL	Overhead Line	77.1	530.0000		1002.3	2090.5	1124.6	63.4	132.8	70.8	12.0	25.1	13.4	99.16	98.80	99.64
MWDF3	GR257532	5023486	27.6KV_3P_Y3/0_AL	Overhead Line	86.3	530.0000		1002.2	2090.1	1124.6	63.4	132.8	70.8	12.0	25.1	13.4	99.14	98.77	99.64
MWDF3	GR257533	5024892	27.6KV_1P_Y1/0_AL	Overhead Line	4.3	230.0000				158.0			10.0			4.3			99.64
MWDF3	GR257534	5024893	27.6KV_1P_Y1/0_AL	Overhead Line	76.0	230.0000				158.0			10.0			4.3			99.64
MWDF3	GR257535	5024894	27.6KV_1P_Y1/0_AL	Overhead Line	58.3	230.0000				134.3			8.5			3.7			99.64
MWDF3	GR257536	5024895	27.6KV_1P_Y1/0_AL	Overhead Line	58.8	230.0000				134.3			8.5			3.7			99.63
MWDF3	GR257537	5024896	27.6KV_1P_Y1/0_AL	Overhead Line	57.8	230.0000				110.6			7.0			3.0			99.63
MWDF3	GR257538	5024897	27.6KV_1P_Y1/0_AL	Overhead Line	61.1	230.0000				110.6			7.0			3.0			99.63
MWDF3	GR257539	5135739	27.6KV_1P_Y1/0_AL	Overhead Line	61.6	230.0000				98.8			6.2			2.7			99.63
MWDF3	GR257540	5135740	27.6KV_1P_Y1/0_AL	Overhead Line	56.8	230.0000				86.9			5.5			2.4			99.63
MWDF3	GR257541	5023909	27.6KV_1P_Y1/0_AL	Overhead Line	6.0	230.0000				71.1			4.5			1.9			99.63
MWDF3	GR257571	5132919	27.6KV_3P_Y3/0_AL	Overhead Line	2.0	530.0000		1002.0	2089.7	966.7	63.4	132.8	60.9	12.0	25.1	11.5	99.14	98.77	99.64
MWDF3	GR257572	5023487	27.6KV_3P_Y3/0_AL	Overhead Line	58.7	530.0000		946.0	2089.7	966.7	59.9	132.8	60.9	11.3	25.1	11.5	99.13	98.76	99.64
MWDF3	GR257573	5023488	27.6KV_3P_Y3/0_AL	Overhead Line	74.6	530.0000		945.9	2089.4	966.7	59.9	132.8	60.9	11.3	25.1	11.5	99.12	98.74	99.65
MWDF3	GR257574	5023489	27.6KV_3P_Y3/0_AL	Overhead Line	78.9	530.0000		945.8	2089.0	966.8	59.9	132.8	60.9	11.3	25.1	11.5	99.10	98.72	99.65
MWDF3	GR257575	5023490	27.6KV_3P_Y3/0_AL	Overhead Line	68.8	530.0000		945.6	2088.6	959.0	59.9	132.8	60.4	11.3	25.1	11.4	99.09	98.70	99.66
MWDF3	GR257576	5023491	27.6KV_3P_Y3/0_AL	Overhead Line	75.9	530.0000		945.5	2088.2	959.0	59.9	132.8	60.4	11.3	25.1	11.4	99.08	98.68	99.66
MWDF3	GR257577	5023492	27.6KV_3P_Y3/0_AL	Overhead Line	72.9	530.0000		945.4	2087.8	959.1	59.9	132.8	60.4	11.3	25.1	11.4	99.06	98.66	99.66
MWDF3	GR257578	5023493	27.6KV_3P_Y3/0_AL	Overhead Line	73.6	530.0000		945.3	2086.6	959.1	59.9	132.7	60.4	11.3	25.0	11.4	99.05	98.64	99.67
MWDF3	GR257579	5023494	27.6KV_3P_Y3/0_AL	Overhead Line	61.7	530.0000		883.0	2086.2	959.2	55.9	132.7	60.4	10.6	25.0	11.4	99.04	98.63	99.67
MWDF3	GR257580	5135550	27.6KV_3P_Y3/0_AL	Overhead Line	66.7	530.0000		882.9	2078.6	959.2	55.9	132.3	60.4	10.6	25.0	11.4	99.03	98.61	99.68
MWDF3	GR257581	5135551	27.6KV_3P_Y3/0_AL	Overhead Line	75.1	530.0000		882.8	2071.1	959.3	55.9	131.8	60.4	10.6	24.9	11.4	99.02	98.59	99.68
MWDF3	GR257582	5135552	27.6KV_3P_Y3/0_AL	Overhead Line	72.6	530.0000		882.7	2070.7	959.3	55.9	131.8	60.4	10.6	24.9	11.4	99.00	98.57	99.68
MWDF3	GR257583	11232941	27.6KV_1P_Y1/0_AL	Overhead Line	5.4	230.0000			7.2			0.5			0.2			98.57	
MWDF3	GR257584	11232952	27.6KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000			7.2			0.5			0.2			98.57	
MWDF3	GR257585	11232942	27.6KV_1P_Y1/0_AL	Overhead Line	69.9	230.0000			7.2			0.5			0.2			98.57	
MWDF3	GR257590	5135553	27.6KV_3P_Y3/0_AL	Overhead Line	69.4	530.0000		882.6	2055.9	959.4	55.9	130.9	60.4	10.6	24.7	11.4	98.99	98.55	99.69
MWDF3	GR257591	5135554	27.6KV_3P_Y3/0_AL	Overhead Line	78.9	530.0000		882.5	2048.3	959.4	55.9	130.4	60.4	10.6	24.6	11.4	98.98	98.53	99.69
MWDF3	GR257592	5023918	27.6KV_3P_Y3/0_AL	Overhead Line	91.1	530.0000		882.4	2047.9	959.5	55.9	130.4	60.4	10.6	24.6	11.4	98.96	98.51	99.70
MWDF3	GR257593	5024116	27.6KV_1P_Y1/0_AL	Overhead Line	4.7	230.0000				173.9			10.9			4.8			99.70
MWDF3	GR257653	5137177	27.6KV_3P_Y3/0_AL	Overhead Line	73.4	530.0000		882.3	2047.5	785.7	55.9	130.4	49.5	10.6	24.6	9.3	98.95	98.49	99.70
MWDF3	GR257654	5137178	27.6KV_3P_Y3/0_AL	Overhead Line	78.0	530.0000		882.2	2047.1	777.9	55.9	130.4	49.0	10.6	24.6	9.2	98.93	98.47	99.71
MWDF3	GR257655	5023001	27.6KV_1P_Y1/0_AL	Overhead Line	17.9	230.0000				142.2			9.0			3.9			99.71
MWDF3	GR257656	5137588	27.6KV_1P_Y1/0_AL	Overhead Line	5.6	230.0000				142.2			9.0			3.9			99.71
MWDF3	GR257686	5137179	27.6KV_3P_Y3/0_AL	Overhead Line	78.0	530.0000		882.1	2046.7	635.7	56.0	130.4	40.0	10.6	24.6	7.5	98.92	98.46	99.72
MWDF3	GR257687	5134366	27.6KV_1P_Y1/0_AL	Overhead Line	4.2	230.0000			101.1			6.4			2.8			98.46	
MWDF3	GR257719	5137180	27.6KV_3P_Y3/0_AL	Overhead Line	77.9	530.0000		881.9	1945.3	635.8	56.0	124.0	40.0	10.6	23.4	7.5	98.90	98.44	99.72
MWDF3	GR257720	5137181	27.6KV_3P_Y3/0_AL	Overhead Line	39.4	530.0000		881.8	1940.6	635.8	56.0	123.7	40.0	10.6	23.3	7.5	98.89	98.43	99.73

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR257721	5022866	27.6KV_3P_Y1/0_AL	Overhead Line	21.8	530.0000		551.5	717.6	407.5	35.0	45.7	25.6	6.6	8.6	4.8	98.89	98.43	99.73
MWDF3	GR257722	5022867	27.6KV_3P_Y1/0_AL	Overhead Line	49.1	530.0000		37.2	11.4	7.8	2.4	0.7	0.5	0.4	0.1	0.1	98.89	98.43	99.73
MWDF3	GR257723	5022868	27.6KV_3P_Y1/0_AL	Overhead Line	82.4	530.0000		37.2	7.1	7.8	2.4	0.5	0.5	0.4	0.1	0.1	98.89	98.43	99.73
MWDF3	GR257724	5022871	27.6KV_3P_Y1/0_AL	Overhead Line	86.5	530.0000		37.2	7.1	7.8	2.4	0.5	0.5	0.4	0.1	0.1	98.89	98.43	99.73
MWDF3	GR257725	5023891	27.6KV_3P_Y1/0_AL	Overhead Line	63.4	530.0000		37.3	7.1	7.8	2.4	0.5	0.5	0.4	0.1	0.1	98.89	98.43	99.73
MWDF3	GR257726	5023892	27.6KV_3P_Y1/0_AL	Overhead Line	78.8	530.0000		37.3	7.1	7.8	2.4	0.5	0.5	0.4	0.1	0.1	98.89	98.43	99.73
MWDF3	GR257727	5023893	27.6KV_3P_Y1/0_AL	Overhead Line	63.8	530.0000		37.3	7.1	7.8	2.4	0.5	0.5	0.4	0.1	0.1	98.89	98.43	99.73
MWDF3	GR257728	5023894	27.6KV_3P_Y1/0_AL	Overhead Line	71.7	530.0000		37.3	7.1	7.8	2.4	0.5	0.5	0.4	0.1	0.1	98.89	98.43	99.73
MWDF3	GR257729	11233485	27.6KV_1P_Y1/0_AL	Overhead Line	4.8	230.0000			7.2			0.5			0.2			98.43	
MWDF3	GR257730	11233520	27.6KV_1P_Y1/0_AL	Overhead Line	35.5	230.0000			7.2			0.5			0.2			98.43	
MWDF3	GR257731	11233522	27.6KV_1P_Y1/0_AL	Overhead Line	40.7	230.0000			7.2			0.5			0.2			98.43	
MWDF3	GR257734	5023895	27.6KV_3P_Y1/0_AL	Overhead Line	74.2	530.0000		37.3	0.4	7.8	2.4	0.0	0.5	0.4	0.0	0.1	98.89	98.43	99.73
MWDF3	GR257735	5023896	27.6KV_3P_Y1/0_AL	Overhead Line	78.8	530.0000		37.3	0.4	7.8	2.4	0.0	0.5	0.4	0.0	0.1	98.89	98.43	99.73
MWDF3	GR257736	5023897	27.6KV_3P_Y1/0_AL	Overhead Line	82.2	530.0000		37.3	0.3	7.8	2.4	0.0	0.5	0.4	0.0	0.1	98.89	98.43	99.73
MWDF3	GR257737	5023898	27.6KV_3P_Y1/0_AL	Overhead Line	43.7	530.0000		37.3	0.2	7.8	2.4	0.0	0.5	0.4	0.0	0.1	98.89	98.43	99.72
MWDF3	GR257738	5023899	27.6KV_3P_Y1/0_AL	Overhead Line	5.4	530.0000		37.4	0.1	7.9	2.4	0.0	0.5	0.4	0.0	0.1	98.89	98.43	99.72
MWDF3	GR257739	15434686	27.6KV_3P_Y1/0_AL	Overhead Line	4.6	530.0000		37.4	0.1	7.9	2.4	0.0	0.5	0.4	0.0	0.1	98.89	98.43	99.72
MWDF3	GR257740	15607448	27.6KV_1P_N1/0_AL	Overhead Line	3.3	530.0000		37.4			2.4			0.4			98.89		
MWDF3	GR257756	16497654	27.6KV_3P_Y1/0_AL	Overhead Line	54.5	530.0000		0.1	0.1	7.9	0.0	0.0	0.5	0.0	0.0	0.1	98.89	98.43	99.72
MWDF3	GR257757	11557369	27.6KV_3P_Y1/0_AL	Overhead Line	24.5	530.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.89	98.43	99.72
MWDF3	GR257758	5024245	27.6KV_3P_Y1/0_AL	Overhead Line	32.3	530.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.89	98.43	99.72
MWDF3	GR257759	11600730	27.6KV_3P_Y1/0_AL	Overhead Line	8.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.89	98.43	99.72
MWDF3	GR257760	11600724	27.6KV_3P_N1/0_AL	Overhead Line	9.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.89	98.43	99.72
MWDF3	GR257761	13241770	27.6KV_3P_Y1/0_AL	Overhead Line	5.8	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.89	98.43	99.72
MWDF3	GR257766	5137182	27.6KV_3P_Y3/0_AL	Overhead Line	89.8	530.0000		514.3	706.2	399.8	32.6	45.0	25.2	6.2	8.5	4.7	98.89	98.42	99.73
MWDF3	GR257767	5137183	27.6KV_3P_Y3/0_AL	Overhead Line	3.9	530.0000		514.3	706.2	399.8	32.6	45.0	25.2	6.2	8.5	4.7	98.89	98.42	99.73
MWDF3	GR257768	11231884	27.6KV_3P_Y3/0_AL	Overhead Line	72.0	530.0000		514.3	706.2	399.8	32.6	45.0	25.2	6.2	8.5	4.7	98.88	98.42	99.73
MWDF3	GR257769	5137184	27.6KV_3P_Y3/0_AL	Overhead Line	92.1	530.0000		514.2	706.2	399.8	32.6	45.0	25.2	6.2	8.5	4.7	98.87	98.41	99.73
MWDF3	GR257770	5137185	27.6KV_3P_Y3/0_AL	Overhead Line	64.3	530.0000		513.0	706.1	399.8	32.6	45.0	25.2	6.1	8.5	4.7	98.87	98.41	99.73
MWDF3	GR257771	5137186	27.6KV_3P_Y3/0_AL	Overhead Line	70.7	530.0000		513.0	706.1	399.8	32.6	45.0	25.2	6.1	8.5	4.7	98.86	98.40	99.72
MWDF3	GR257772	5137187	27.6KV_3P_Y3/0_AL	Overhead Line	68.2	530.0000		512.9	706.1	399.8	32.6	45.0	25.2	6.1	8.5	4.7	98.86	98.40	99.72
MWDF3	GR257773	5137188	27.6KV_3P_Y3/0_AL	Overhead Line	70.4	530.0000		512.9	706.1	399.8	32.6	45.0	25.2	6.1	8.5	4.7	98.85	98.39	99.72
MWDF3	GR257774	5137189	27.6KV_3P_Y3/0_AL	Overhead Line	72.4	530.0000		512.9	706.1	399.9	32.6	45.0	25.2	6.1	8.5	4.7	98.85	98.39	99.72
MWDF3	GR257775	5137190	27.6KV_3P_Y3/0_AL	Overhead Line	77.3	530.0000		512.9	706.0	399.9	32.6	45.0	25.2	6.1	8.5	4.7	98.84	98.38	99.72
MWDF3	GR257776	5135137	27.6KV_3P_Y556_AL	Overhead Line	79.6	730.0000		506.7	706.0	399.9	32.2	45.0	25.2	4.4	6.2	3.4	98.83	98.38	99.72
MWDF3	GR257777	5024035	27.6KV_1P_Y1/0_AL	Overhead Line	3.8	230.0000			7.2			0.5			0.2			98.38	
MWDF3	GR257778	11234542	27.6KV_1P_Y1/0_AL	Overhead Line	13.8	230.0000			7.2			0.5			0.2			98.38	
MWDF3	GR257779	5022453	27.6KV_1P_Y1/0_AL	Overhead Line	59.8	230.0000			7.2			0.5			0.2			98.38	
MWDF3	GR257780	5022454	27.6KV_1P_Y1/0_AL	Overhead Line	57.7	230.0000			7.2			0.5			0.2			98.38	
MWDF3	GR257783	5137757	27.6KV_3P_Y556_AL	Overhead Line	76.3	730.0000		506.6	698.8	399.9	32.2	44.6	25.2	4.4	6.1	3.4	98.83	98.38	99.72
MWDF3	GR257784	5137758	27.6KV_3P_Y556_AL	Overhead Line	78.4	730.0000		506.6	698.8	399.9	32.2	44.6	25.2	4.4	6.1	3.4	98.82	98.37	99.72
MWDF3	GR257785	5023705	27.6KV_3P_Y556_AL	Overhead Line	74.8	730.0000		506.6	698.8	399.9	32.2	44.6	25.2	4.4	6.1	3.4	98.82	98.37	99.72
MWDF3	GR257786	5137759	27.6KV_3P_Y556_AL	Overhead Line	76.7	730.0000		500.4	698.8	399.9	31.8	44.6	25.2	4.4	6.1	3.4	98.82	98.37	99.72
MWDF3	GR257787	5137760	27.6KV_3P_Y556_AL	Overhead Line	77.7	730.0000		500.4	698.8	400.0	31.8	44.6	25.2	4.4	6.1	3.4	98.81	98.36	99.72
MWDF3	GR257788	5137761	27.6KV_3P_Y556_AL	Overhead Line	76.3	730.0000		494.2	698.8	400.0	31.4	44.6	25.2	4.3	6.1	3.4	98.81	98.36	99.72
MWDF3	GR257789	5137762	27.6KV_3P_Y556_AL	Overhead Line	32.8	730.0000		494.1	698.7	400.0	31.4	44.6	25.2	4.3	6.1	3.4	98.80	98.36	99.72
MWDF3	GR257790	5137763	27.6KV_3P_Y556_AL	Overhead Line	60.2	730.0000		487.9	698.7	400.0	31.0	44.6	25.2	4.2	6.1	3.4	98.80	98.35	99.72
MWDF3	GR257791	5136510	27.6KV_3P_Y556_AL	Overhead Line	2.0	730.0000		487.9	684.3	400.0	31.0	43.7	25.2	4.2	6.0	3.4	98.80	98.35	99.72
MWDF3	GR257792	5136512	27.6KV_1P_Y1/0_AL	Overhead Line	3.1	230.0000			57.8			3.7			1.6			98.35	
MWDF3	GR257814	5137764	27.6KV_3P_Y556_AL	Overhead Line	30.7	730.0000		487.9	626.5	400.0	31.0	40.0	25.2	4.2	5.5	3.4	98.80	98.35	99.72
MWDF3	GR257815	5137765	27.6KV_3P_Y556_AL	Overhead Line	52.3	730.0000		487.9	626.5	400.0	31.0	40.0	25.2	4.2	5.5	3.4	98.80	98.35	99.72
MWDF3	GR257816	11532147	27.6KV_1P_Y1/0_AL	Overhead Line	6.4	230.0000			15.8				1.0			0.4			99.72
MWDF3	GR257828	11532148	27.6KV_3P_Y556_AL	Overhead Line	3.5	730.0000		487.9	626.5	384.2	31.0	40.0	24.2	4.2	5.5	3.3	98.80	98.35	99.72
MWDF3	GR257829	11526643	27.6KV_3P_N556_AL	Overhead Line	26.8	730.0000		487.9	619.3	384.2	31.0	39.5	24.2	4.2	5.4	3.3	98.79	98.35	99.72
MWDF3	GR257830	11525755	27.6KV_3P_Y556_AL	Overhead Line	34.0	730.0000		487.9	619.3	336.8	31.0	39.5	21.2	4.2	5.4	2.9	98.79	98.35	99.72
MWDF3	GR257831	5137768	27.6KV_3P_Y556_AL	Overhead Line	47.8	730.0000		487.9	619.3	336.8	31.0	39.5	21.2	4.2	5.4	2.9	98.79	98.35	99.72
MWDF3	GR257832	5133458	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000				220.9			13.9			6.0			99.72
MWDF3	GR257833	5137299	27.6KV_1P_Y1/0_AL	Overhead Line	71.4	230.0000				220.9			13.9			6.0			99.72
MWDF3	GR257834	5137300	27.6KV_1P_Y1/0_AL	Overhead Line	63.2	230.0000				197.2			12.4			5.4			99.72
MWDF3	GR257835	5135073	27.6KV_1P_Y1/0_AL	Overhead Line	67.6	230.0000				197.2			12.4			5.4			99.71
MWDF3	GR257836	5135075	27.6KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000				173.5			10.9			4.7			99.71
MWDF3	GR257837	5135076	27.6KV_1P_Y1/0_AL	Overhead Line	63.5	230.0000				173.5			10.9			4.7			99.71
MWDF3	GR257838	5135077	27.6KV_1P_Y1/0_AL	Overhead Line	65.1	230.0000				157.7			9.9			4.3			99.71
MWDF3	GR257839	5135078	27.6KV_1P_Y1/0_AL	Overhead Line	59.7	230.0000				145.9			9.2			4.0			99.70
MWDF3	GR257840	5135079	27.6KV_1P_Y1/0_AL	Overhead Line	61.2	230.0000				145.9			9.2			4.0			99.70
MWDF3	GR257841	5135080	27.6KV_1P_Y1/0_AL	Overhead Line	54.2	230.0000				134.0			8.4			3.7			99.70
MWDF3	GR257842	5135081	27.6KV_1P_Y1/0_AL	Overhead Line	55.2	230.0000				134.0			8.4			3.7			99.70
MWDF3	GR257843	5135082	27.6KV_1P_Y1/0_AL	Overhead Line	8.9	230.0000				7.9			0.5			0.2			99.70
MWDF3	GR257844	11234533	27.6KV_1P_Y1/0_AL	Overhead Line	49.5	230.0000				7.9			0.5			0.2			99.70
MWDF3	GR257845	5135084	27.6KV_1P_Y1/0_AL	Overhead Line	54.5	230.0000				7.9			0.5			0.2			99.70
MWDF3	GR257848	5136131	27.6KV_1P_Y1/0_AL	Overhead Line	1.4	230.0000				126.2			7.9			3.5			99.70
MWDF3	GR257849	5135086	27.6KV_1P_Y1/0_AL	Overhead Line	56.9	230.0000				110.4			6.9			3.0			99.70

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR257850	5135087	27.6KV_1P_Y1/0_AL	Overhead Line	57.9	230.0000				110.4			6.9			3.0			99.70
MWDF3	GR257851	5135088	27.6KV_1P_Y1/0_AL	Overhead Line	49.5	230.0000				98.7			6.2			2.7			99.70
MWDF3	GR257852	5136931	27.6KV_1P_Y1/0_AL	Overhead Line	67.0	230.0000				98.7			6.2			2.7			99.69
MWDF3	GR257853	5136932	27.6KV_1P_Y1/0_AL	Overhead Line	58.8	230.0000				82.9			5.2			2.3			99.69
MWDF3	GR257854	5023700	27.6KV_1P_Y1/0_AL	Overhead Line	60.7	230.0000				82.9			5.2			2.3			99.69
MWDF3	GR257855	5136953	27.6KV_1P_Y1/0_AL	Overhead Line	60.9	230.0000				71.1			4.5			1.9			99.69
MWDF3	GR257856	5136954	27.6KV_1P_Y1/0_AL	Overhead Line	59.8	230.0000				59.2			3.7			1.6			99.69
MWDF3	GR257857	5137111	27.6KV_1P_Y1/0_AL	Overhead Line	64.3	230.0000				47.4			3.0			1.3			99.69
MWDF3	GR257858	5137874	27.6KV_1P_Y1/0_AL	Overhead Line	58.7	230.0000				47.4			3.0			1.3			99.69
MWDF3	GR257859	5137876	27.6KV_1P_Y1/0_AL	Overhead Line	66.3	230.0000				23.7			1.5			0.6			99.69
MWDF3	GR257860	5022692	27.6KV_1P_Y1/0_AL	Overhead Line	61.6	230.0000				23.7			1.5			0.6			99.69
MWDF3	GR257861	5135027	27.6KV_1P_Y1/0_AL	Overhead Line	64.8	230.0000				0.0			0.0			0.0			99.69
MWDF3	GR257888	5137769	27.6KV_3P_Y556_AL	Overhead Line	67.4	730.0000		487.9	619.3	116.1	31.0	39.5	7.3	4.2	5.4	1.0	98.78	98.34	99.72
MWDF3	GR257889	5137772	27.6KV_3P_Y556_AL	Overhead Line	71.4	730.0000		487.9	619.3	116.1	31.0	39.5	7.3	4.2	5.4	1.0	98.78	98.34	99.73
MWDF3	GR257890	5137773	27.6KV_3P_Y556_AL	Overhead Line	61.4	730.0000		487.9	619.3	116.1	31.0	39.5	7.3	4.2	5.4	1.0	98.77	98.34	99.73
MWDF3	GR257891	5137317	27.6KV_1P_Y1/0_AL	Overhead Line	32.5	230.0000			137.2			8.8			3.8			98.34	
MWDF3	GR257927	5137774	27.6KV_3P_Y556_AL	Overhead Line	62.0	730.0000		487.8	482.1	116.1	31.0	30.8	7.3	4.2	4.2	1.0	98.77	98.34	99.73
MWDF3	GR257928	5137775	27.6KV_3P_Y556_AL	Overhead Line	64.4	730.0000		487.8	482.1	116.1	31.0	30.8	7.3	4.2	4.2	1.0	98.76	98.34	99.73
MWDF3	GR257929	5137776	27.6KV_3P_Y556_AL	Overhead Line	78.8	730.0000		487.8	482.1	116.1	31.0	30.8	7.3	4.2	4.2	1.0	98.75	98.34	99.73
MWDF3	GR257930	5137777	27.6KV_3P_Y556_AL	Overhead Line	78.2	730.0000		487.8	482.1	116.2	31.0	30.8	7.3	4.2	4.2	1.0	98.75	98.34	99.73
MWDF3	GR257931	5137778	27.6KV_3P_Y556_AL	Overhead Line	86.5	730.0000		487.8	482.2	116.2	31.0	30.8	7.3	4.2	4.2	1.0	98.74	98.34	99.73
MWDF3	GR257932	5024476	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000			144.3			9.2			4.0			98.34	
MWDF3	GR257933	5135028	27.6KV_1P_Y1/0_AL	Overhead Line	69.3	230.0000			144.3			9.2			4.0			98.34	
MWDF3	GR257934	5135029	27.6KV_1P_Y1/0_AL	Overhead Line	61.8	230.0000			133.5			8.5			3.7			98.34	
MWDF3	GR257935	5135030	27.6KV_1P_Y1/0_AL	Overhead Line	64.5	230.0000			133.5			8.5			3.7			98.34	
MWDF3	GR257936	5135031	27.6KV_1P_Y1/0_AL	Overhead Line	62.7	230.0000			119.1			7.6			3.3			98.33	
MWDF3	GR257937	5135032	27.6KV_1P_Y1/0_AL	Overhead Line	58.6	230.0000			108.2			6.9			3.0			98.33	
MWDF3	GR257938	5023498	27.6KV_1P_Y1/0_AL	Overhead Line	57.1	230.0000			97.4			6.2			2.7			98.33	
MWDF3	GR257939	5135033	27.6KV_1P_Y1/0_AL	Overhead Line	61.4	230.0000			86.6			5.5			2.4			98.33	
MWDF3	GR257940	5135035	27.6KV_1P_Y1/0_AL	Overhead Line	66.2	230.0000			75.8			4.8			2.1			98.33	
MWDF3	GR257941	5135037	27.6KV_1P_Y1/0_AL	Overhead Line	56.3	230.0000			75.8			4.8			2.1			98.33	
MWDF3	GR257942	5135038	27.6KV_1P_Y1/0_AL	Overhead Line	55.5	230.0000			64.9			4.1			1.8			98.33	
MWDF3	GR257943	5135039	27.6KV_1P_Y1/0_AL	Overhead Line	51.1	230.0000			54.1			3.5			1.5			98.33	
MWDF3	GR257944	5135040	27.6KV_1P_Y1/0_AL	Overhead Line	56.8	230.0000			54.1			3.5			1.5			98.33	
MWDF3	GR257945	5135042	27.6KV_1P_Y1/0_AL	Overhead Line	62.4	230.0000			39.7			2.5			1.1			98.33	
MWDF3	GR257946	5135043	27.6KV_1P_Y1/0_AL	Overhead Line	44.3	230.0000			39.7			2.5			1.1			98.33	
MWDF3	GR257947	5135044	27.6KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000			25.3			1.6			0.7			98.32	
MWDF3	GR257948	5135045	27.6KV_1P_Y1/0_AL	Overhead Line	22.7	230.0000			25.3			1.6			0.7			98.32	
MWDF3	GR257949	5135200	27.6KV_1P_Y1/0_AL	Overhead Line	60.4	230.0000			25.3			1.6			0.7			98.32	
MWDF3	GR257950	5135201	27.6KV_1P_Y1/0_AL	Overhead Line	55.6	230.0000			10.8			0.7			0.3			98.32	
MWDF3	GR257975	5137779	27.6KV_3P_Y556_AL	Overhead Line	67.9	730.0000		487.8	337.9	116.2	31.0	21.6	7.3	4.2	3.0	1.0	98.74	98.34	99.73
MWDF3	GR257976	5137934	27.6KV_3P_Y556_AL	Overhead Line	59.0	730.0000		487.8	337.9	116.2	31.0	21.6	7.3	4.2	3.0	1.0	98.73	98.34	99.73
MWDF3	GR257977	5022457	27.6KV_1P_Y1/0_AL	Overhead Line	6.2	230.0000			7.2			0.5			0.2			98.34	
MWDF3	GR257978	11237187	27.6KV_1P_Y1/0_AL	Overhead Line	56.9	230.0000			7.2			0.5			0.2			98.34	
MWDF3	GR257979	5022458	27.6KV_1P_Y1/0_AL	Overhead Line	38.6	230.0000			7.2			0.5			0.2			98.34	
MWDF3	GR257982	5137935	27.6KV_3P_Y556_AL	Overhead Line	60.4	730.0000		487.7	330.7	116.2	31.0	21.1	7.3	4.2	2.9	1.0	98.73	98.34	99.73
MWDF3	GR257983	5022938	27.6KV_3P_Y556_AL	Overhead Line	61.8	730.0000		487.7	330.7	116.2	31.0	21.1	7.3	4.2	2.9	1.0	98.73	98.35	99.73
MWDF3	GR257984	5023706	27.6KV_3P_Y556_AL	Overhead Line	58.6	730.0000		487.7	143.0	116.2	31.0	9.1	7.3	4.2	1.2	1.0	98.72	98.35	99.73
MWDF3	GR257985	5137937	27.6KV_3P_Y556_AL	Overhead Line	51.0	730.0000		487.7	143.0	116.2	31.0	9.1	7.3	4.2	1.3	1.0	98.72	98.35	99.72
MWDF3	GR257986	5138181	27.6KV_3P_Y556_AL	Overhead Line	60.0	730.0000		487.7	143.0	100.5	31.0	9.1	6.3	4.2	1.3	0.9	98.72	98.35	99.72
MWDF3	GR257987	5138182	27.6KV_3P_Y556_AL	Overhead Line	59.1	730.0000		487.7	143.0	100.5	31.0	9.1	6.3	4.2	1.3	0.9	98.71	98.35	99.72
MWDF3	GR257988	5136025	27.6KV_3P_Y556_AL	Overhead Line	75.0	730.0000		487.7	143.0	100.5	31.0	9.1	6.3	4.2	1.3	0.9	98.71	98.36	99.72
MWDF3	GR257989	5022699	27.6KV_3P_Y556_AL	Overhead Line	69.3	730.0000		487.7	143.1	100.5	31.0	9.1	6.3	4.2	1.3	0.9	98.71	98.36	99.71
MWDF3	GR257990	5136026	27.6KV_3P_Y556_AL	Overhead Line	69.1	730.0000		487.7	143.1	100.5	31.0	9.1	6.3	4.2	1.3	0.9	98.70	98.36	99.71
MWDF3	GR257991	5136027	27.6KV_3P_Y556_AL	Overhead Line	69.4	730.0000		487.7	132.3	100.5	31.0	8.4	6.3	4.2	1.2	0.9	98.70	98.36	99.71
MWDF3	GR257992	5136028	27.6KV_3P_Y556_AL	Overhead Line	67.8	730.0000		487.7	132.3	100.5	31.0	8.4	6.3	4.2	1.2	0.9	98.70	98.37	99.71
MWDF3	GR257993	11444309	27.6KV_1P_N1/0_AL	Overhead Line	7.6	530.0000		31.2			2.0			0.4			98.70		
MWDF3	GR258004	5023505	27.6KV_3P_Y556_AL	Overhead Line	72.4	730.0000		456.5	132.3	100.5	29.0	8.4	6.3	4.0	1.2	0.9	98.69	98.37	99.70
MWDF3	GR258005	5136029	27.6KV_3P_Y556_AL	Overhead Line	70.4	730.0000		456.5	132.3	100.5	29.0	8.4	6.3	4.0	1.2	0.9	98.69	98.37	99.70
MWDF3	GR258006	5135545	27.6KV_1P_Y1/0_AL	Overhead Line	92.4	230.0000		35.5			2.3			1.0			98.69		
MWDF3	GR258007	5022459	27.6KV_1P_Y1/0_AL	Overhead Line	105.7	230.0000		35.5			2.3			1.0			98.69		
MWDF3	GR258008	5022460	27.6KV_1P_Y1/0_AL	Overhead Line	104.9	230.0000		35.5			2.3			1.0			98.69		
MWDF3	GR258009	5022461	27.6KV_1P_Y1/0_AL	Overhead Line	105.4	230.0000		31.8			2.0			0.9			98.69		
MWDF3	GR258010	5024299	27.6KV_1P_Y1/0_AL	Overhead Line	65.1	230.0000		31.8			2.0			0.9			98.69		
MWDF3	GR258011	5022462	27.6KV_1P_Y1/0_AL	Overhead Line	79.6	230.0000		25.6			1.6			0.7			98.68		
MWDF3	GR258012	11444331	27.6KV_1P_N1/0_AL	Overhead Line	10.2	530.0000		18.7			1.2			0.2			98.68		
MWDF3	GR258020	5022463	27.6KV_1P_Y1/0_AL	Overhead Line	77.9	230.0000		6.9			0.4			0.2			98.68		
MWDF3	GR258021	5022464	27.6KV_1P_Y1/0_AL	Overhead Line	81.5	230.0000		6.9			0.4			0.2			98.68		
MWDF3	GR258022	5022465	27.6KV_1P_Y1/0_AL	Overhead Line	58.4	230.0000		6.9			0.4			0.2			98.68		
MWDF3	GR258023	5022466	27.6KV_1P_Y1/0_AL	Overhead Line	65.0	230.0000		0.7			0.0			0.0			98.68		
MWDF3	GR258024	5022467	27.6KV_1P_Y1/0_AL	Overhead Line	66.6	230.0000		0.7			0.0			0.0			98.68		
MWDF3	GR258025	5022468	27.6KV_1P_Y1/0_AL	Overhead Line	66.7	230.0000		0.7			0.0			0.0			98.68		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR258026	5022469	27.6KV_1P_Y1/0_AL	Overhead Line	5.3	230.0000		0.7			0.0			0.0			98.68		
MWDF3	GR258027	11237211	27.6KV_1P_Y1/0_AL	Overhead Line	69.7	230.0000		0.7			0.0			0.0			98.68		
MWDF3	GR258036	5136030	27.6KV_3P_Y556_AL	Overhead Line	16.7	730.0000		421.1	132.3	100.5	26.8	8.4	6.3	3.7	1.2	0.9	98.69	98.37	99.70
MWDF3	GR258037	5023848	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000		166.7			10.6			4.6			98.69		
MWDF3	GR258038	5136031	27.6KV_1P_Y3/0_AL	Overhead Line	32.6	530.0000		166.7			10.6			2.0			98.69		
MWDF3	GR258039	5136032	27.6KV_1P_Y3/0_AL	Overhead Line	74.5	530.0000		166.7			10.6			2.0			98.69		
MWDF3	GR258040	5135193	27.6KV_1P_Y3/0_AL	Overhead Line	68.6	530.0000		166.7			10.6			2.0			98.68		
MWDF3	GR258041	5024262	27.6KV_1P_Y3/0_AL	Overhead Line	64.8	530.0000		166.7			10.6			2.0			98.68		
MWDF3	GR258042	5024263	27.6KV_1P_Y3/0_AL	Overhead Line	40.4	530.0000		166.7			10.6			2.0			98.68		
MWDF3	GR258043	5023458	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000		6.2			0.4			0.2			98.68		
MWDF3	GR258044	5135021	27.6KV_1P_Y1/0_AL	Overhead Line	65.9	230.0000		6.2			0.4			0.2			98.68		
MWDF3	GR258047	5024264	27.6KV_1P_Y3/0_AL	Overhead Line	36.2	530.0000		160.5			10.2			1.9			98.68		
MWDF3	GR258048	5023339	27.6KV_1P_Y3/0_AL	Overhead Line	64.5	530.0000		154.3			9.8			1.9			98.68		
MWDF3	GR258049	5024265	27.6KV_1P_Y3/0_AL	Overhead Line	65.7	530.0000		154.3			9.8			1.9			98.68		
MWDF3	GR258050	5023463	27.6KV_1P_Y3/0_AL	Overhead Line	2.9	530.0000		12.4			0.8			0.1			98.68		
MWDF3	GR258051	5023827	27.6KV_1P_Y3/0_AL	Overhead Line	13.4	530.0000		12.4			0.8			0.1			98.68		
MWDF3	GR258052	5023828	27.6KV_1P_Y1/0_AL	Overhead Line	47.9	230.0000		12.4			0.8			0.3			98.68		
MWDF3	GR258053	5023829	27.6KV_1P_Y1/0_AL	Overhead Line	51.0	230.0000		12.5			0.8			0.3			98.68		
MWDF3	GR258056	5024266	27.6KV_1P_Y3/0_AL	Overhead Line	61.9	530.0000		141.9			9.0			1.7			98.68		
MWDF3	GR258057	5024134	27.6KV_1P_Y3/0_AL	Overhead Line	62.6	530.0000		141.9			9.0			1.7			98.68		
MWDF3	GR258058	5024267	27.6KV_1P_Y3/0_AL	Overhead Line	61.2	530.0000		135.7			8.6			1.6			98.67		
MWDF3	GR258059	5024268	27.6KV_1P_Y3/0_AL	Overhead Line	78.9	530.0000		129.5			8.2			1.6			98.67		
MWDF3	GR258060	5024269	27.6KV_1P_Y3/0_AL	Overhead Line	82.7	530.0000		123.3			7.8			1.5			98.67		
MWDF3	GR258061	5023830	27.6KV_1P_Y3/0_AL	Overhead Line	3.0	530.0000		6.2			0.4			0.1			98.67		
MWDF3	GR258062	5023831	27.6KV_1P_Y3/0_AL	Overhead Line	23.5	530.0000		6.2			0.4			0.1			98.67		
MWDF3	GR258063	5025086	27.6KV_1P_Y1/0_AL	Overhead Line	69.4	230.0000		6.2			0.4			0.2			98.67		
MWDF3	GR258064	5025087	27.6KV_1P_Y1/0_AL	Overhead Line	70.2	230.0000		6.2			0.4			0.2			98.67		
MWDF3	GR258065	5025088	27.6KV_1P_Y1/0_AL	Overhead Line	67.5	230.0000		6.2			0.4			0.2			98.67		
MWDF3	GR258068	5024270	27.6KV_1P_Y3/0_AL	Overhead Line	80.0	530.0000		117.1			7.4			1.4			98.67		
MWDF3	GR258069	5024271	27.6KV_1P_Y3/0_AL	Overhead Line	69.6	530.0000		117.1			7.4			1.4			98.67		
MWDF3	GR258070	5024272	27.6KV_1P_Y3/0_AL	Overhead Line	74.7	530.0000		110.9			7.1			1.3			98.67		
MWDF3	GR258071	5024273	27.6KV_1P_Y3/0_AL	Overhead Line	73.4	530.0000		110.9			7.1			1.3			98.67		
MWDF3	GR258072	5024274	27.6KV_1P_Y3/0_AL	Overhead Line	73.8	530.0000		110.9			7.1			1.3			98.67		
MWDF3	GR258073	5024275	27.6KV_1P_Y3/0_AL	Overhead Line	70.8	530.0000		110.9			7.1			1.3			98.66		
MWDF3	GR258074	5024276	27.6KV_1P_Y3/0_AL	Overhead Line	59.6	530.0000		110.9			7.1			1.3			98.66		
MWDF3	GR258075	5024277	27.6KV_1P_Y3/0_AL	Overhead Line	88.1	530.0000		104.7			6.7			1.3			98.66		
MWDF3	GR258076	5024278	27.6KV_1P_Y3/0_AL	Overhead Line	82.6	530.0000		104.7			6.7			1.3			98.66		
MWDF3	GR258077	5024279	27.6KV_1P_Y3/0_AL	Overhead Line	83.3	530.0000		103.5			6.6			1.2			98.66		
MWDF3	GR258078	5022139	27.6KV_1P_Y3/0_AL	Overhead Line	3.0	530.0000		6.2			0.4			0.1			98.66		
MWDF3	GR258079	5022280	27.6KV_1P_Y3/0_AL	Overhead Line	92.3	530.0000		6.2			0.4			0.1			98.66		
MWDF3	GR258080	5022281	27.6KV_1P_Y1/0_AL	Overhead Line	62.9	230.0000		6.2			0.4			0.2			98.66		
MWDF3	GR258081	5022282	27.6KV_1P_Y1/0_AL	Overhead Line	42.5	230.0000		6.2			0.4			0.2			98.66		
MWDF3	GR258082	5022283	27.6KV_1P_Y1/0_AL	Overhead Line	53.9	230.0000		6.2			0.4			0.2			98.66		
MWDF3	GR258085	5024280	27.6KV_1P_Y3/0_AL	Overhead Line	77.3	530.0000		97.3			6.2			1.2			98.66		
MWDF3	GR258086	5024477	27.6KV_1P_Y3/0_AL	Overhead Line	74.4	530.0000		91.1			5.8			1.1			98.66		
MWDF3	GR258087	5024478	27.6KV_1P_Y3/0_AL	Overhead Line	70.8	530.0000		91.1			5.8			1.1			98.66		
MWDF3	GR258088	5023343	27.6KV_1P_Y3/0_AL	Overhead Line	75.1	530.0000		78.7			5.0			0.9			98.66		
MWDF3	GR258089	5022284	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000		15.5			1.0			0.4			98.66		
MWDF3	GR258090	5022285	27.6KV_1P_Y1/0_AL	Overhead Line	68.3	230.0000		15.5			1.0			0.4			98.66		
MWDF3	GR258091	5022286	27.6KV_1P_Y1/0_AL	Overhead Line	79.3	230.0000		15.5			1.0			0.4			98.66		
MWDF3	GR258094	5022287	27.6KV_1P_Y1/0_AL	Overhead Line	79.2	230.0000		9.3			0.6			0.3			98.66		
MWDF3	GR258095	5022288	27.6KV_1P_Y1/0_AL	Overhead Line	48.9	230.0000		9.3			0.6			0.3			98.66		
MWDF3	GR258098	5022290	27.6KV_1P_Y3/0_AL	Overhead Line	33.6	530.0000		12.4			0.8			0.1			98.66		
MWDF3	GR258099	5022291	27.6KV_1P_Y1/0_AL	Overhead Line	4.3	230.0000		12.4			0.8			0.3			98.66		
MWDF3	GR258100	11249620	27.6KV_1P_Y1/0_AL	Overhead Line	82.4	230.0000		12.4			0.8			0.3			98.66		
MWDF3	GR258101	5022292	27.6KV_1P_Y1/0_AL	Overhead Line	69.9	230.0000		12.4			0.8			0.3			98.66		
MWDF3	GR258102	5022293	27.6KV_1P_Y1/0_AL	Overhead Line	93.4	230.0000		6.2			0.4			0.2			98.66		
MWDF3	GR258103	5022294	27.6KV_1P_Y1/0_AL	Overhead Line	95.7	230.0000		6.2			0.4			0.2			98.66		
MWDF3	GR258104	5022295	27.6KV_1P_Y1/0_AL	Overhead Line	96.9	230.0000		6.2			0.4			0.2			98.66		
MWDF3	GR258105	5022296	27.6KV_1P_Y1/0_AL	Overhead Line	71.2	230.0000		6.2			0.4			0.2			98.66		
MWDF3	GR258110	5024479	27.6KV_1P_Y3/0_AL	Overhead Line	61.9	530.0000		50.8			3.2			0.6			98.66		
MWDF3	GR258111	5024480	27.6KV_1P_Y3/0_AL	Overhead Line	54.9	530.0000		50.8			3.2			0.6			98.66		
MWDF3	GR258112	5024481	27.6KV_1P_Y3/0_AL	Overhead Line	59.8	530.0000		50.8			3.2			0.6			98.66		
MWDF3	GR258113	5024482	27.6KV_1P_Y3/0_AL	Overhead Line	71.1	530.0000		47.1			3.0			0.6			98.65		
MWDF3	GR258114	5024293	27.6KV_1P_Y3/0_AL	Overhead Line	70.8	530.0000		47.1			3.0			0.6			98.65		
MWDF3	GR258115	5024483	27.6KV_1P_Y3/0_AL	Overhead Line	73.9	530.0000		47.1			3.0			0.6			98.65		
MWDF3	GR258116	5022886	27.6KV_1P_Y3/0_AL	Overhead Line	69.9	530.0000		43.4			2.8			0.5			98.65		
MWDF3	GR258117	5023354	27.6KV_1P_Y3/0_AL	Overhead Line	73.8	530.0000		37.2			2.4			0.4			98.65		
MWDF3	GR258118	5022887	27.6KV_1P_Y1/0_AL	Overhead Line	70.3	230.0000		31.0			2.0			0.9			98.65		
MWDF3	GR258119	5022889	27.6KV_1P_Y1/0_AL	Overhead Line	69.8	230.0000		31.0			2.0			0.9			98.65		
MWDF3	GR258120	5024303	27.6KV_1P_Y1/0_AL	Overhead Line	70.9	230.0000		31.0			2.0			0.9			98.65		
MWDF3	GR258121	5022890	27.6KV_1P_Y1/0_AL	Overhead Line	70.1	230.0000		31.0			2.0			0.9			98.65		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR258122	5022891	27.6KV_1P_Y1/0_AL	Overhead Line	92.4	230.0000		21.7			1.4			0.6			98.65		
MWDF3	GR258123	5022892	27.6KV_1P_Y1/0_AL	Overhead Line	81.2	230.0000		21.7			1.4			0.6			98.65		
MWDF3	GR258124	5022893	27.6KV_1P_Y1/0_AL	Overhead Line	80.7	230.0000		21.7			1.4			0.6			98.65		
MWDF3	GR258125	5022894	27.6KV_1P_Y1/0_AL	Overhead Line	82.6	230.0000		21.7			1.4			0.6			98.65		
MWDF3	GR258126	5022895	27.6KV_1P_Y1/0_AL	Overhead Line	81.4	230.0000		21.7			1.4			0.6			98.65		
MWDF3	GR258127	5022896	27.6KV_1P_Y1/0_AL	Overhead Line	82.5	230.0000		21.7			1.4			0.6			98.65		
MWDF3	GR258128	5023052	27.6KV_1P_Y1/0_AL	Overhead Line	80.4	230.0000		21.7			1.4			0.6			98.65		
MWDF3	GR258129	5023053	27.6KV_1P_Y1/0_AL	Overhead Line	83.1	230.0000		19.2			1.2			0.5			98.65		
MWDF3	GR258130	5023054	27.6KV_1P_Y1/0_AL	Overhead Line	64.6	230.0000		15.5			1.0			0.4			98.65		
MWDF3	GR258131	5023055	27.6KV_1P_Y1/0_AL	Overhead Line	84.6	230.0000		9.3			0.6			0.3			98.65		
MWDF3	GR258132	5023056	27.6KV_1P_Y1/0_AL	Overhead Line	67.1	230.0000		9.3			0.6			0.3			98.65		
MWDF3	GR258133	5024666	27.6KV_1P_Y1/0_AL	Overhead Line	4.4	230.0000		9.3			0.6			0.3			98.65		
MWDF3	GR258134	5024665	27.6KV_1P_Y1/0_AL	Overhead Line	93.4	230.0000		9.3			0.6			0.3			98.65		
MWDF3	GR258137	5024664	27.6KV_1P_Y1/0_AL	Overhead Line	6.0	230.0000		6.2			0.4			0.2			98.65		
MWDF3	GR258138	5024662	27.6KV_1P_Y1/0_AL	Overhead Line	27.3	230.0000		6.2			0.4			0.2			98.65		
MWDF3	GR258139	11251211	27.6KV_1P_Y1/0_AL	Overhead Line	40.1	230.0000		6.2			0.4			0.2			98.65		
MWDF3	GR258153	5023348	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000		3.7			0.2			0.1			98.65		
MWDF3	GR258154	5022297	27.6KV_1P_Y1/0_AL	Overhead Line	87.1	230.0000		3.7			0.2			0.1			98.65		
MWDF3	GR258155	5022298	27.6KV_1P_Y1/0_AL	Overhead Line	89.9	230.0000		3.7			0.2			0.1			98.65		
MWDF3	GR258176	5023461	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000		6.2			0.4			0.2			98.68		
MWDF3	GR258177	5023459	27.6KV_1P_Y1/0_AL	Overhead Line	65.4	230.0000		6.2			0.4			0.2			98.68		
MWDF3	GR258178	5023460	27.6KV_1P_Y1/0_AL	Overhead Line	71.3	230.0000		6.2			0.4			0.2			98.68		
MWDF3	GR258181	5136547	27.6KV_3P_Y556_AL	Overhead Line	61.1	730.0000		254.3	132.3	100.5	16.2	8.4	6.3	2.2	1.2	0.9	98.69	98.37	99.70
MWDF3	GR258182	5136548	27.6KV_3P_Y556_AL	Overhead Line	58.9	730.0000		248.1	132.3	100.5	15.8	8.4	6.3	2.2	1.2	0.9	98.68	98.37	99.70
MWDF3	GR258183	5136549	27.6KV_3P_Y556_AL	Overhead Line	59.5	730.0000		248.1	132.3	100.5	15.8	8.4	6.3	2.2	1.2	0.9	98.68	98.37	99.70
MWDF3	GR258184	5136550	27.6KV_3P_Y556_AL	Overhead Line	62.8	730.0000		248.1	132.4	100.5	15.8	8.4	6.3	2.2	1.2	0.9	98.68	98.37	99.70
MWDF3	GR258185	5136551	27.6KV_3P_Y556_AL	Overhead Line	65.7	730.0000		241.9	132.4	100.6	15.4	8.4	6.3	2.1	1.2	0.9	98.68	98.38	99.70
MWDF3	GR258186	5136552	27.6KV_3P_Y556_AL	Overhead Line	60.3	730.0000		241.9	132.4	100.6	15.4	8.4	6.3	2.1	1.2	0.9	98.68	98.38	99.70
MWDF3	GR258187	5136553	27.6KV_3P_Y556_AL	Overhead Line	60.0	730.0000		241.9	132.4	100.6	15.4	8.4	6.3	2.1	1.2	0.9	98.68	98.38	99.70
MWDF3	GR258188	5136554	27.6KV_3P_Y556_AL	Overhead Line	73.3	730.0000		235.7	132.4	100.6	15.0	8.4	6.3	2.1	1.2	0.9	98.68	98.38	99.69
MWDF3	GR258189	5136555	27.6KV_3P_Y556_AL	Overhead Line	70.0	730.0000		235.7	132.4	100.6	15.0	8.4	6.3	2.1	1.2	0.9	98.67	98.38	99.69
MWDF3	GR258190	5136556	27.6KV_3P_Y556_AL	Overhead Line	72.9	730.0000		235.7	132.4	100.6	15.0	8.4	6.3	2.1	1.2	0.9	98.67	98.38	99.69
MWDF3	GR258191	5136557	27.6KV_3P_Y556_AL	Overhead Line	30.8	730.0000		235.8	132.4	100.6	15.0	8.4	6.3	2.1	1.2	0.9	98.67	98.38	99.69
MWDF3	GR258192	18200601	27.6KV_1P_N556_AL	Overhead Line	23.8	730.0000		6.2			0.4			0.1			98.67		
MWDF3	GR258193	18200608	27.6KV_1P_N556_AL	Overhead Line	5.1	730.0000		6.2			0.4			0.1			98.67		
MWDF3	GR258194	18200606	27.6KV_1P_N556_AL	Overhead Line	30.7	730.0000		6.2			0.4			0.1			98.67		
MWDF3	GR258195	18200609	27.6KV_1P_N556_AL	Overhead Line	35.5	730.0000		6.2			0.4			0.1			98.67		
MWDF3	GR258198	18200603	27.6KV_3P_Y556_AL	Overhead Line	1.0	730.0000		229.6	132.4	100.6	14.6	8.4	6.3	2.0	1.2	0.9	98.67	98.38	99.69
MWDF3	GR258199	18200447	27.6KV_3P_Y556_AL	Overhead Line	39.8	730.0000		229.6	132.4	100.6	14.6	8.4	6.3	2.0	1.2	0.9	98.67	98.38	99.69
MWDF3	GR258200	5135359	27.6KV_3P_Y556_AL	Overhead Line	71.7	730.0000		229.6	132.5	100.6	14.6	8.4	6.3	2.0	1.2	0.9	98.67	98.38	99.69
MWDF3	GR258201	5022639	27.6KV_3P_Y556_AL	Overhead Line	70.0	730.0000		229.6	132.5	100.6	14.6	8.5	6.3	2.0	1.2	0.9	98.67	98.38	99.69
MWDF3	GR258202	5022640	27.6KV_3P_Y556_AL	Overhead Line	53.7	730.0000		223.4	132.5	100.6	14.2	8.5	6.3	1.9	1.2	0.9	98.67	98.38	99.69
MWDF3	GR258203	5023005	27.6KV_3P_Y556_AL	Overhead Line	50.6	730.0000		223.4	132.5	100.6	14.2	8.5	6.3	1.9	1.2	0.9	98.66	98.38	99.69
MWDF3	GR258204	5023913	27.6KV_3P_Y556_AL	Overhead Line	2.3	730.0000		217.2	132.5	100.7	13.8	8.5	6.3	1.9	1.2	0.9	98.66	98.38	99.69
MWDF3	GR258205	5023006	27.6KV_3P_Y556_AL	Overhead Line	68.8	730.0000		213.4	132.5	100.7	13.6	8.5	6.3	1.9	1.2	0.9	98.66	98.38	99.69
MWDF3	GR258206	5024092	27.6KV_3P_Y556_AL	Overhead Line	72.7	730.0000		207.2	132.5	100.7	13.2	8.5	6.3	1.8	1.2	0.9	98.66	98.38	99.69
MWDF3	GR258207	5023007	27.6KV_3P_Y556_AL	Overhead Line	67.3	730.0000		207.2	132.5	100.7	13.2	8.5	6.3	1.8	1.2	0.9	98.66	98.38	99.69
MWDF3	GR258208	5023008	27.6KV_3P_Y556_AL	Overhead Line	60.8	730.0000		201.0	132.5	100.7	12.8	8.5	6.3	1.8	1.2	0.9	98.66	98.38	99.69
MWDF3	GR258209	5023009	27.6KV_3P_Y556_AL	Overhead Line	59.5	730.0000		201.0	132.5	100.7	12.8	8.5	6.3	1.8	1.2	0.9	98.66	98.38	99.68
MWDF3	GR258210	5023010	27.6KV_3P_Y556_AL	Overhead Line	60.9	730.0000		201.1	132.6	100.7	12.8	8.5	6.3	1.8	1.2	0.9	98.66	98.38	99.68
MWDF3	GR258211	11236783	27.6KV_3P_Y556_AL	Overhead Line	60.9	730.0000		70.7	132.6	100.7	4.5	8.5	6.3	0.6	1.2	0.9	98.66	98.38	99.68
MWDF3	GR258212	5023142	27.6KV_3P_Y556_AL	Overhead Line	78.7	730.0000		64.5	132.6	100.8	4.1	8.5	6.3	0.6	1.2	0.9	98.66	98.38	99.68
MWDF3	GR258213	5137805	27.6KV_3P_Y556_AL	Overhead Line	69.3	730.0000		64.5	132.6	100.8	4.1	8.5	6.3	0.6	1.2	0.9	98.66	98.38	99.68
MWDF3	GR258214	5137806	27.6KV_3P_Y556_AL	Overhead Line	78.6	730.0000		64.5	125.4	100.8	4.1	8.0	6.3	0.6	1.1	0.9	98.66	98.38	99.68
MWDF3	GR258215	5137807	27.6KV_3P_Y556_AL	Overhead Line	77.5	730.0000		64.5	118.2	100.8	4.1	7.5	6.3	0.6	1.0	0.9	98.65	98.38	99.68
MWDF3	GR258216	5137808	27.6KV_3P_Y556_AL	Overhead Line	79.7	730.0000		64.5	118.2	92.9	4.1	7.5	5.9	0.6	1.0	0.8	98.65	98.37	99.68
MWDF3	GR258217	5137809	27.6KV_3P_Y556_AL	Overhead Line	76.2	730.0000		64.5	118.3	92.9	4.1	7.5	5.9	0.6	1.0	0.8	98.65	98.37	99.68
MWDF3	GR258218	5137810	27.6KV_3P_Y556_AL	Overhead Line	84.0	730.0000		64.5	118.3	93.0	4.1	7.5	5.9	0.6	1.0	0.8	98.65	98.37	99.68
MWDF3	GR258219	5023925	27.6KV_3P_Y556_AL	Overhead Line	79.6	730.0000		64.6	111.1	93.0	4.1	7.1	5.9	0.6	1.0	0.8	98.65	98.37	99.68
MWDF3	GR258220	5137811	27.6KV_3P_Y556_AL	Overhead Line	86.1	730.0000		64.6	106.8	93.0	4.1	6.8	5.9	0.6	0.9	0.8	98.65	98.37	99.68
MWDF3	GR258221	5137812	27.6KV_3P_Y556_AL	Overhead Line	87.5	730.0000		64.6	106.8	93.0	4.1	6.8	5.9	0.6	0.9	0.8	98.65	98.37	99.68
MWDF3	GR258222	5137550	27.6KV_1P_Y1/0_AL	Overhead Line	4.4	230.0000				7.8			0.5			0.2			99.68
MWDF3	GR258223	5134941	27.6KV_1P_Y1/0_AL	Overhead Line	69.6	230.0000				7.8			0.5			0.2			99.68
MWDF3	GR258224	5131760	27.6KV_1P_Y1/0_AL	Overhead Line	72.0	230.0000				7.8			0.5			0.2			99.68
MWDF3	GR258225	5136648	27.6KV_1P_Y1/0_AL	Overhead Line	70.9	230.0000				7.8			0.5			0.2			99.68
MWDF3	GR258226	5135275	27.6KV_1P_Y1/0_AL	Overhead Line	67.8	230.0000				7.8			0.5			0.2			99.68
MWDF3	GR258227	5135681	27.6KV_1P_Y1/0_AL	Overhead Line	71.0	230.0000				7.9			0.5			0.2			99.68
MWDF3	GR258228	5137548	27.6KV_1P_Y1/0_AL	Overhead Line	71.7	230.0000				7.9			0.5			0.2			99.68
MWDF3	GR258229	5137549	27.6KV_1P_Y1/0_AL	Overhead Line	71.3	230.0000				7.9			0.5			0.2			99.68
MWDF3	GR258232	5137814	27.6KV_3P_Y556_AL	Overhead Line	70.9	730.0000		64.6	106.8	85.2	4.1	6.8	5.4	0.6	0.9	0.7	98.65	98.37	99.68
MWDF3	GR258233	5137815	27.6KV_3P_Y556_AL	Overhead Line	43.7	730.0000		64.6	106.8	85.2	4.1	6.8	5.4	0.6	0.9	0.7	98.65	98.37	99.68
MWDF3	GR258234	5102511	27.6KV_3P_Y556_AL	Overhead Line	24.4	730.0000		64.6	106.8	85.2	4.1	6.8	5.4	0.6	0.9	0.7	98.65	98.37	99.68

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR258235	5137816	27.6KV_3P_Y556_AL	Overhead Line	64.8	730.0000		58.4	106.8	85.2	3.7	6.8	5.4	0.5	0.9	0.7	98.65	98.37	99.68
MWDF3	GR258236	5132054	27.6KV_3P_Y556_AL	Overhead Line	77.1	730.0000		58.4	106.8	80.5	3.7	6.8	5.1	0.5	0.9	0.7	98.65	98.37	99.68
MWDF3	GR258237	5137818	27.6KV_3P_Y556_AL	Overhead Line	79.6	730.0000		58.4	106.8	80.5	3.7	6.8	5.1	0.5	0.9	0.7	98.65	98.37	99.68
MWDF3	GR258238	5137819	27.6KV_3P_Y556_AL	Overhead Line	65.2	730.0000		58.4	106.9	80.5	3.7	6.8	5.1	0.5	0.9	0.7	98.65	98.36	99.68
MWDF3	GR258239	5023839	27.6KV_3P_Y556_AL	Overhead Line	88.3	730.0000		58.4	96.0	80.5	3.7	6.1	5.1	0.5	0.8	0.7	98.65	98.36	99.68
MWDF3	GR258240	5022614	27.6KV_3P_Y556_AL	Overhead Line	63.5	730.0000		58.5	96.1	80.6	3.7	6.1	5.1	0.5	0.8	0.7	98.65	98.36	99.68
MWDF3	GR258241	5022615	27.6KV_3P_Y556_AL	Overhead Line	76.3	730.0000		58.5	93.2	80.6	3.7	5.9	5.1	0.5	0.8	0.7	98.65	98.36	99.68
MWDF3	GR258242	5022616	27.6KV_3P_Y556_AL	Overhead Line	64.0	730.0000		58.5	93.2	80.6	3.7	5.9	5.1	0.5	0.8	0.7	98.65	98.36	99.68
MWDF3	GR258243	5022617	27.6KV_3P_Y556_AL	Overhead Line	62.3	730.0000		58.5	93.2	80.6	3.7	5.9	5.1	0.5	0.8	0.7	98.65	98.36	99.68
MWDF3	GR258244	5022618	27.6KV_3P_Y556_AL	Overhead Line	82.7	730.0000		58.5	93.2	79.0	3.7	5.9	5.0	0.5	0.8	0.7	98.65	98.36	99.68
MWDF3	GR258245	5022619	27.6KV_3P_Y556_AL	Overhead Line	67.9	730.0000		58.5	93.2	79.0	3.7	5.9	5.0	0.5	0.8	0.7	98.65	98.36	99.68
MWDF3	GR258246	5022621	27.6KV_3P_Y556_AL	Overhead Line	74.0	730.0000		58.5	93.2	79.0	3.7	5.9	5.0	0.5	0.8	0.7	98.65	98.36	99.68
MWDF3	GR258247	5022622	27.6KV_3P_Y556_AL	Overhead Line	79.9	730.0000		58.5	93.2	74.3	3.7	5.9	4.7	0.5	0.8	0.6	98.65	98.36	99.68
MWDF3	GR258248	5022623	27.6KV_3P_Y556_AL	Overhead Line	36.6	730.0000		58.5	93.3	74.3	3.7	6.0	4.7	0.5	0.8	0.6	98.65	98.36	99.68
MWDF3	GR258249	5022624	27.6KV_3P_Y556_AL	Overhead Line	42.5	730.0000		58.6	93.3	74.3	3.7	6.0	4.7	0.5	0.8	0.6	98.65	98.36	99.68
MWDF3	GR258250	11249828	27.6KV_1P_N1/0_AL	Overhead Line	6.4	530.0000		12.5			0.8			0.1			98.65		
MWDF3	GR258255	5022626	27.6KV_3P_Y556_AL	Overhead Line	87.4	730.0000		46.1	93.3	74.4	2.9	6.0	4.7	0.4	0.8	0.6	98.65	98.36	99.68
MWDF3	GR258256	5022627	27.6KV_3P_Y556_AL	Overhead Line	86.0	730.0000		46.1	93.3	66.5	2.9	6.0	4.2	0.4	0.8	0.6	98.65	98.36	99.68
MWDF3	GR258257	5022628	27.6KV_3P_Y556_AL	Overhead Line	52.8	730.0000		46.1	93.3	66.5	2.9	6.0	4.2	0.4	0.8	0.6	98.65	98.36	99.68
MWDF3	GR258258	5022629	27.6KV_3P_Y556_AL	Overhead Line	52.8	730.0000		46.1	93.3	66.5	2.9	6.0	4.2	0.4	0.8	0.6	98.65	98.36	99.68
MWDF3	GR258259	11249863	27.6KV_1P_N1/0_AL	Overhead Line	50.0	530.0000				7.9			0.5			0.1			99.68
MWDF3	GR258260	11249872	27.6KV_1P_N1/0_AL	Overhead Line	33.0	530.0000				7.9			0.5			0.1			99.68
MWDF3	GR258263	11249987	27.6KV_1P_N1/0_AL	Overhead Line	18.0	530.0000		6.2			0.4			0.1			98.65		
MWDF3	GR258264	11250027	27.6KV_1P_N1/0_AL	Overhead Line	3.4	530.0000		6.2			0.4			0.1			98.65		
MWDF3	GR258265	11249991	27.6KV_1P_N1/0_AL	Overhead Line	67.9	530.0000		6.2			0.4			0.1			98.65		
MWDF3	GR258266	11249990	27.6KV_1P_N1/0_AL	Overhead Line	81.1	530.0000		6.2			0.4			0.1			98.65		
MWDF3	GR258267	11249989	27.6KV_1P_N1/0_AL	Overhead Line	80.5	530.0000		6.2			0.4			0.1			98.65		
MWDF3	GR258268	11249988	27.6KV_1P_N1/0_AL	Overhead Line	66.8	530.0000		6.2			0.4			0.1			98.65		
MWDF3	GR258271	11249992	27.6KV_3P_Y556_AL	Overhead Line	53.4	730.0000		40.0	93.3	58.7	2.5	6.0	3.7	0.3	0.8	0.5	98.65	98.35	99.68
MWDF3	GR258272	5022631	27.6KV_3P_Y556_AL	Overhead Line	53.1	730.0000		40.0	93.3	50.8	2.5	6.0	3.2	0.3	0.8	0.4	98.65	98.35	99.68
MWDF3	GR258273	17243546	27.6KV_3P_Y556_AL	Overhead Line	15.8	730.0000		33.8	93.3	50.8	2.1	6.0	3.2	0.3	0.8	0.4	98.65	98.35	99.68
MWDF3	GR258274	5022632	27.6KV_3P_Y556_AL	Overhead Line	48.5	730.0000		33.8	93.3	50.8	2.1	6.0	3.2	0.3	0.8	0.4	98.65	98.35	99.68
MWDF3	GR258275	5022633	27.6KV_3P_Y556_AL	Overhead Line	65.0	730.0000		33.8	93.4	42.9	2.2	6.0	2.7	0.3	0.8	0.4	98.64	98.35	99.68
MWDF3	GR258276	5022634	27.6KV_3P_Y556_AL	Overhead Line	60.4	730.0000		33.8	93.4	42.9	2.2	6.0	2.7	0.3	0.8	0.4	98.64	98.35	99.68
MWDF3	GR258277	5022635	27.6KV_3P_Y556_AL	Overhead Line	43.6	730.0000		33.8	93.4	35.1	2.2	6.0	2.2	0.3	0.8	0.3	98.64	98.35	99.68
MWDF3	GR258278	5022636	27.6KV_3P_Y556_AL	Overhead Line	67.3	730.0000		33.8	93.4	35.1	2.2	6.0	2.2	0.3	0.8	0.3	98.64	98.35	99.68
MWDF3	GR258279	11250072	27.6KV_1P_N1/0_AL	Overhead Line	27.1	530.0000		9.2			0.6			0.1			98.64		
MWDF3	GR258280	11250079	27.6KV_1P_N1/0_AL	Overhead Line	44.8	530.0000		9.2			0.6			0.1			98.64		
MWDF3	GR258283	5023149	27.6KV_3P_Y556_AL	Overhead Line	50.2	730.0000		24.6	93.4	35.1	1.6	6.0	2.2	0.2	0.8	0.3	98.64	98.35	99.68
MWDF3	GR258284	11250174	27.6KV_1P_N1/0_AL	Overhead Line	4.2	530.0000			7.2			0.5			0.1			98.35	
MWDF3	GR258285	11250180	27.6KV_1P_N1/0_AL	Overhead Line	93.1	530.0000			7.2			0.5			0.1			98.35	
MWDF3	GR258288	5024091	27.6KV_3P_Y556_AL	Overhead Line	56.7	730.0000		24.6	86.2	35.1	1.6	5.5	2.2	0.2	0.8	0.3	98.64	98.35	99.68
MWDF3	GR258289	5022637	27.6KV_3P_Y556_AL	Overhead Line	73.7	730.0000		24.6	86.2	35.1	1.6	5.5	2.2	0.2	0.8	0.3	98.64	98.35	99.68
MWDF3	GR258290	5022638	27.6KV_3P_Y556_AL	Overhead Line	84.5	730.0000		18.4	86.2	35.1	1.2	5.5	2.2	0.2	0.8	0.3	98.64	98.35	99.69
MWDF3	GR258291	11250212	27.6KV_1P_N1/0_AL	Overhead Line	3.4	530.0000		6.2			0.4			0.1			98.64		
MWDF3	GR258292	11250220	27.6KV_1P_N1/0_AL	Overhead Line	18.1	530.0000		6.2			0.4			0.1			98.64		
MWDF3	GR258293	11250218	27.6KV_1P_N1/0_AL	Overhead Line	62.4	530.0000		6.2			0.4			0.1			98.64		
MWDF3	GR258294	11250217	27.6KV_1P_N1/0_AL	Overhead Line	62.3	530.0000		6.2			0.4			0.1			98.64		
MWDF3	GR258297	5135753	27.6KV_3P_Y556_AL	Overhead Line	80.5	730.0000		12.3	86.2	35.1	0.8	5.5	2.2	0.1	0.8	0.3	98.64	98.35	99.69
MWDF3	GR258298	5135754	27.6KV_3P_Y556_AL	Overhead Line	86.3	730.0000		12.3	79.1	35.2	0.8	5.0	2.2	0.1	0.7	0.3	98.64	98.35	99.69
MWDF3	GR258299	5135755	27.6KV_3P_Y556_AL	Overhead Line	2.2	730.0000		6.1	79.1	35.2	0.4	5.0	2.2	0.1	0.7	0.3	98.64	98.35	99.69
MWDF3	GR258300	11250257	27.6KV_1P_N1/0_AL	Overhead Line	19.0	530.0000				11.7			0.7			0.1			99.69
MWDF3	GR258301	11250260	27.6KV_1P_N1/0_AL	Overhead Line	23.5	530.0000				11.7			0.7			0.1			99.69
MWDF3	GR258305	11250261	27.6KV_3P_Y556_AL	Overhead Line	75.6	730.0000		6.1	79.1	23.5	0.4	5.0	1.5	0.1	0.7	0.2	98.64	98.35	99.69
MWDF3	GR258306	5135756	27.6KV_3P_Y556_AL	Overhead Line	75.2	730.0000		6.1	79.1	23.5	0.4	5.0	1.5	0.1	0.7	0.2	98.64	98.35	99.69
MWDF3	GR258307	5135757	27.6KV_3P_Y556_AL	Overhead Line	77.5	730.0000		6.1	71.9	23.5	0.4	4.6	1.5	0.1	0.6	0.2	98.64	98.34	99.69
MWDF3	GR258308	5135758	27.6KV_3P_Y556_AL	Overhead Line	72.4	730.0000		6.1	71.9	23.5	0.4	4.6	1.5	0.1	0.6	0.2	98.64	98.34	99.69
MWDF3	GR258309	11250295	27.6KV_1P_N1/0_AL	Overhead Line	3.6	530.0000		6.2			0.4			0.1			98.64		
MWDF3	GR258310	11250297	27.6KV_1P_N1/0_AL	Overhead Line	19.7	530.0000		6.2			0.4			0.1			98.64		
MWDF3	GR258311	11250298	27.6KV_1P_N1/0_AL	Overhead Line	59.4	530.0000		6.2			0.4			0.1			98.64		
MWDF3	GR258315	5135759	27.6KV_3P_Y556_AL	Overhead Line	73.9	730.0000		0.5	71.9	23.5	0.0	4.6	1.5	0.0	0.6	0.2	98.64	98.34	99.69
MWDF3	GR258316	5135760	27.6KV_3P_Y556_AL	Overhead Line	77.8	730.0000		0.4	71.9	15.7	0.0	4.6	1.0	0.0	0.6	0.1	98.64	98.34	99.69
MWDF3	GR258317	5135761	27.6KV_3P_Y556_AL	Overhead Line	38.5	730.0000		0.4	57.5	15.7	0.0	3.7	1.0	0.0	0.5	0.1	98.64	98.34	99.69
MWDF3	GR258318	5137620	27.6KV_3P_Y556_AL	Overhead Line	36.4	730.0000		0.3	57.5	15.7	0.0	3.7	1.0	0.0	0.5	0.1	98.64	98.34	99.69
MWDF3	GR258319	5137621	27.6KV_3P_Y556_AL	Overhead Line	40.5	730.0000		0.3	50.3	15.7	0.0	3.2	1.0	0.0	0.4	0.1	98.64	98.34	99.69
MWDF3	GR258320	11250445	27.6KV_1P_N1/0_AL	Overhead Line	4.6	530.0000				7.9			0.5			0.1			99.69
MWDF3	GR258321	11250453	27.6KV_1P_N1/0_AL	Overhead Line	54.6	530.0000				7.9			0.5			0.1			99.69
MWDF3	GR258324	5137622	27.6KV_3P_Y556_AL	Overhead Line	38.0	730.0000		0.2	50.3	7.8	0.0	3.2	0.5	0.0	0.4	0.1	98.64	98.34	99.69
MWDF3	GR258325	5137623	27.6KV_3P_Y556_AL	Overhead Line	58.5	730.0000		0.2	50.3	7.8	0.0	3.2	0.5	0.0	0.4	0.1	98.64	98.34	99.69
MWDF3	GR258326	5137624	27.6KV_3P_Y556_AL	Overhead Line	52.4	730.0000		0.1	43.1	7.9	0.0	2.8	0.5	0.0	0.4	0.1	98.64	98.34	99.69
MWDF3	GR258327	5137780	27.6KV_3P_Y556_AL	Overhead Line	37.8	730.0000		0.1	43.1	0.1	0.0	2.8	0.0	0.0	0.4	0.0	98.64	98.34	99.69
MWDF3	GR258328	5023924	27.6KV_3P_Y556_AL	Overhead Line	40.0	730.0000		0.0	43.2	0.0	0.0	2.8	0.0	0.0	0.4	0.0	98.64	98.34	99.69

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR258329	11529802	JUMPER	Overhead Line	0.0	600.0000			28.7			1.8			0.3			98.34	
MWDF3	GR258330	11529801	27.6KV_1P_N3/0_ACSR	Overhead Line	38.7	530.0000			28.7			1.8			0.3			98.34	
MWDF3	GR258331	11529791	27.6KV_1P_N3/0_ACSR	Overhead Line	39.8	530.0000			28.7			1.8			0.3			98.34	
MWDF3	GR258332	11529794	JUMPER	Overhead Line	0.0	600.0000			28.7			1.8			0.3			98.34	
MWDF3	GR258333	11529795	27.6KV_1P_N3/0_ACSR	Overhead Line	3.4	530.0000			0.0			0.0			0.0			98.34	
MWDF3	GR258334	13083622	27.6KV_1P_N3/0_ACSR	Overhead Line	4.7	530.0000			28.7			1.8			0.3			98.34	
MWDF3	GR258335	11529784	27.6KV_1P_N3/0_ACSR	Overhead Line	32.1	530.0000			28.7			1.8			0.3			98.34	
MWDF3	GR258336	11529848	27.6KV_1P_N3/0_ACSR	Overhead Line	38.7	530.0000			14.3			0.9			0.2			98.34	
MWDF3	GR258337	11529581	27.6KV_1P_N3/0_ACSR	Overhead Line	31.1	530.0000			14.3			0.9			0.2			98.34	
MWDF3	GR258338	11529580	27.6KV_1P_N3/0_ACSR	Overhead Line	59.2	530.0000			14.3			0.9			0.2			98.34	
MWDF3	GR258339	11529578	27.6KV_1P_N3/0_ACSR	Overhead Line	31.1	530.0000			14.3			0.9			0.2			98.34	
MWDF3	GR258340	11529577	27.6KV_1P_N3/0_ACSR	Overhead Line	68.1	530.0000			14.3			0.9			0.2			98.34	
MWDF3	GR258341	13083332	27.6KV_1P_N3/0_ACSR	Overhead Line	72.9	530.0000			14.3			0.9			0.2			98.34	
MWDF3	GR258342	11529570	27.6KV_1P_N3/0_ACSR	Overhead Line	79.5	530.0000			7.1			0.5			0.1			98.34	
MWDF3	GR258343	11529568	27.6KV_1P_N3/0_ACSR	Overhead Line	90.2	530.0000			7.1			0.5			0.1			98.34	
MWDF3	GR258344	11529567	27.6KV_1P_N3/0_ACSR	Overhead Line	51.2	530.0000			7.2			0.5			0.1			98.34	
MWDF3	GR258345	11529565	27.6KV_1P_N3/0_ACSR	Overhead Line	73.1	530.0000			7.2			0.5			0.1			98.34	
MWDF3	GR258346	11529564	27.6KV_1P_N3/0_ACSR	Overhead Line	74.2	530.0000			7.2			0.5			0.1			98.34	
MWDF3	GR258347	11593595	27.6KV_1P_N3/0_ACSR	Overhead Line	50.5	530.0000			7.2			0.5			0.1			98.34	
MWDF3	GR258348	11250979	27.6KV_1P_N1/0_AL	Overhead Line	3.5	530.0000			7.2			0.5			0.1			98.34	
MWDF3	GR258349	11250981	27.6KV_1P_N1/0_AL	Overhead Line	28.2	530.0000			7.2			0.5			0.1			98.34	
MWDF3	GR258350	11250982	27.6KV_1P_N1/0_AL	Overhead Line	60.4	530.0000			7.2			0.5			0.1			98.34	
MWDF3	GR258353	11529563	27.6KV_1P_N3/0_ACSR	Overhead Line	2.3	530.0000			0.0			0.0			0.0			98.34	
MWDF3	GR258354	13083331	27.6KV_1P_N2_ACSR	Overhead Line	10.7	530.0000			7.2			0.5			0.1			98.34	
MWDF3	GR258359	11529798	27.6KV_1P_N3/0_ACSR	Overhead Line	1.5	530.0000			0.0			0.0			0.0			98.34	
MWDF3	GR258360	11529805	27.6KV_1P_N3/0_ACSR	Overhead Line	2.5	530.0000			0.0			0.0			0.0			98.34	
MWDF3	GR258361	11593551	27.6KV_3P_Y556_AL	Overhead Line	2.7	730.0000		0.0	14.4	0.0	0.0	0.9	0.0	0.0	0.1	0.0	98.64	98.34	99.69
MWDF3	GR258388	5133612	27.6KV_1P_Y1/0_AL	Overhead Line	5.0	230.0000				7.9			0.5			0.2			99.68
MWDF3	GR258389	11250034	27.6KV_1P_Y1/0_AL	Overhead Line	43.0	230.0000				7.9			0.5			0.2			99.68
MWDF3	GR258390	5100511	27.6KV_1P_Y1/0_AL	Overhead Line	48.4	230.0000				7.9			0.5			0.2			99.68
MWDF3	GR258403	5133221	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000				4.7			0.3			0.1			99.68
MWDF3	GR258404	5132268	27.6KV_1P_Y1/0_AL	Overhead Line	74.2	230.0000				4.7			0.3			0.1			99.68
MWDF3	GR258405	5133292	27.6KV_1P_Y1/0_AL	Overhead Line	77.7	230.0000				4.7			0.3			0.1			99.68
MWDF3	GR258422	5135540	27.6KV_1P_Y1/0_AL	Overhead Line	23.6	230.0000		130.5			8.3			3.6			98.66		
MWDF3	GR258423	5135541	27.6KV_1P_Y1/0_AL	Overhead Line	1.5	230.0000		130.5			8.3			3.6			98.66		
MWDF3	GR258424	11236502	27.6KV_1P_Y1/0_AL	Overhead Line	54.3	230.0000		130.5			8.3			3.6			98.65		
MWDF3	GR258425	14631781	27.6KV_1P_N1/0_CU	Overhead Line	90.2	530.0000		6.2			0.4			0.1			98.65		
MWDF3	GR258428	14631782	27.6KV_1P_Y1/0_AL	Overhead Line	1.1	230.0000		124.3			7.9			3.4			98.65		
MWDF3	GR258429	5135542	27.6KV_1P_Y1/0_AL	Overhead Line	54.0	230.0000		118.1			7.5			3.3			98.65		
MWDF3	GR258430	5023021	27.6KV_1P_Y1/0_AL	Overhead Line	54.8	230.0000		118.1			7.5			3.3			98.65		
MWDF3	GR258431	5023022	27.6KV_1P_Y1/0_AL	Overhead Line	55.5	230.0000		118.1			7.5			3.3			98.65		
MWDF3	GR258432	5023023	27.6KV_1P_Y1/0_AL	Overhead Line	70.9	230.0000		105.6			6.7			2.9			98.65		
MWDF3	GR258433	5023024	27.6KV_1P_Y1/0_AL	Overhead Line	34.7	230.0000		105.6			6.7			2.9			98.65		
MWDF3	GR258434	5136363	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000		105.6			6.7			2.9			98.65		
MWDF3	GR258435	5023026	27.6KV_1P_Y1/0_AL	Overhead Line	76.9	230.0000		93.2			5.9			2.6			98.65		
MWDF3	GR258436	5023027	27.6KV_1P_Y1/0_AL	Overhead Line	64.3	230.0000		87.0			5.5			2.4			98.64		
MWDF3	GR258437	5023028	27.6KV_1P_Y1/0_AL	Overhead Line	60.8	230.0000		87.0			5.5			2.4			98.64		
MWDF3	GR258438	5023029	27.6KV_1P_Y1/0_AL	Overhead Line	69.5	230.0000		80.8			5.1			2.2			98.64		
MWDF3	GR258439	5023225	27.6KV_1P_Y1/0_AL	Overhead Line	46.5	230.0000		74.6			4.7			2.1			98.64		
MWDF3	GR258440	5023226	27.6KV_1P_Y1/0_AL	Overhead Line	45.7	230.0000		74.6			4.7			2.1			98.64		
MWDF3	GR258441	5023227	27.6KV_1P_Y1/0_AL	Overhead Line	51.4	230.0000		68.4			4.4			1.9			98.64		
MWDF3	GR258442	5023228	27.6KV_1P_Y1/0_AL	Overhead Line	43.4	230.0000		56.0			3.6			1.5			98.64		
MWDF3	GR258443	5023229	27.6KV_1P_Y1/0_AL	Overhead Line	38.5	230.0000		56.0			3.6			1.5			98.64		
MWDF3	GR258444	5023230	27.6KV_1P_Y1/0_AL	Overhead Line	41.0	230.0000		43.5			2.8			1.2			98.64		
MWDF3	GR258445	5023231	27.6KV_1P_Y1/0_AL	Overhead Line	34.0	230.0000		43.5			2.8			1.2			98.64		
MWDF3	GR258446	5023333	27.6KV_1P_Y1/0_AL	Overhead Line	110.9	230.0000		43.5			2.8			1.2			98.64		
MWDF3	GR258447	5023232	27.6KV_1P_Y1/0_AL	Overhead Line	39.2	230.0000		37.3			2.4			1.0			98.64		
MWDF3	GR258448	11246774	27.6KV_1P_Y1/0_AL	Overhead Line	4.0	230.0000		12.4			0.8			0.3			98.64		
MWDF3	GR258449	17996552	27.6KV_1P_Y1/0_AL	Overhead Line	44.2	230.0000		12.4			0.8			0.3			98.64		
MWDF3	GR258450	5137794	27.6KV_1P_Y1/0_AL	Overhead Line	50.7	230.0000		12.5			0.8			0.3			98.64		
MWDF3	GR258453	5023233	27.6KV_1P_Y1/0_AL	Overhead Line	35.0	230.0000		24.9			1.6			0.7			98.64		
MWDF3	GR258454	5024497	27.6KV_1P_Y1/0_AL	Overhead Line	44.5	230.0000		18.6			1.2			0.5			98.64		
MWDF3	GR258455	11621630	27.6KV_1P_N1/0_AL	Overhead Line	8.1	530.0000		6.2			0.4			0.1			98.64		
MWDF3	GR258456	11621633	27.6KV_1P_N1/0_AL	Overhead Line	10.6	530.0000		6.2			0.4			0.1			98.64		
MWDF3	GR258457	11621634	27.6KV_1P_N1/0_AL	Overhead Line	10.5	530.0000		6.2			0.4			0.1			98.64		
MWDF3	GR258458	11621635	27.6KV_1P_N1/0_AL	Overhead Line	7.7	530.0000		6.2			0.4			0.1			98.64		
MWDF3	GR258461	5024498	27.6KV_1P_Y1/0_AL	Overhead Line	32.5	230.0000		6.2			0.4			0.2			98.64		
MWDF3	GR258483	5136364	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000		12.4			0.8			0.3			98.65		
MWDF3	GR258484	5137786	27.6KV_1P_Y1/0_AL	Overhead Line	13.1	230.0000		12.4			0.8			0.3			98.65		
MWDF3	GR258485	5137787	27.6KV_1P_Y1/0_AL	Overhead Line	72.0	230.0000		12.4			0.8			0.3			98.65		
MWDF3	GR258486	11236603	27.6KV_1P_Y1/0_AL	Overhead Line	70.2	230.0000		12.4			0.8			0.3			98.65		
MWDF3	GR258487	5137788	27.6KV_1P_Y1/0_AL	Overhead Line	70.4	230.0000		12.4			0.8			0.3			98.65		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR258488	11236606	27.6KV_1P_Y1/0_AL	Overhead Line	70.1	230.0000		12.4			0.8			0.3			98.65		
MWDF3	GR258489	5137790	27.6KV_1P_Y1/0_AL	Overhead Line	55.9	230.0000		12.4			0.8			0.3			98.65		
MWDF3	GR258490	5137791	27.6KV_1P_Y1/0_AL	Overhead Line	99.2	230.0000		12.4			0.8			0.3			98.65		
MWDF3	GR258491	5137792	27.6KV_1P_Y1/0_AL	Overhead Line	87.2	230.0000		12.4			0.8			0.3			98.65		
MWDF3	GR258494	5136362	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000		12.4			0.8			0.3			98.65		
MWDF3	GR258495	5137784	27.6KV_1P_Y1/0_AL	Overhead Line	54.8	230.0000		12.4			0.8			0.3			98.65		
MWDF3	GR258496	5137785	27.6KV_1P_Y1/0_AL	Overhead Line	62.9	230.0000		12.5			0.8			0.3			98.65		
MWDF3	GR258501	5136973	27.6KV_3P_Y556_AL	Overhead Line	75.9	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	98.66	98.38	99.68
MWDF3	GR258502	5136972	27.6KV_3P_Y556_AL	Overhead Line	81.7	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.66	98.38	99.68
MWDF3	GR258503	15650393	27.6KV_3P_Y556_AL	Overhead Line	2.2	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.66	98.38	99.68
MWDF3	GR258504	15648622	27.6KV_3P_Y556_AL	Overhead Line	5.8	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.66	98.38	99.68
MWDF3	GR258505	15650391	27.6KV_3P_Y1/0_AL	Overhead Line	11.8	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.66	98.38	99.68
MWDF3	GR258510	5024541	27.6KV_1P_Y1/0_AL	Overhead Line	49.3	230.0000		3.7			0.2			0.1			98.66		
MWDF3	GR258511	5023914	27.6KV_1P_Y1/0_AL	Overhead Line	2.9	230.0000		3.7			0.2			0.1			98.66		
MWDF3	GR258512	11240900	27.6KV_1P_Y1/0_AL	Overhead Line	47.1	230.0000		3.7			0.2			0.1			98.66		
MWDF3	GR258517	5023912	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000		6.2			0.4			0.2			98.67		
MWDF3	GR258518	5022821	27.6KV_1P_Y1/0_AL	Overhead Line	22.9	230.0000		6.2			0.4			0.2			98.67		
MWDF3	GR258519	5023002	27.6KV_1P_Y1/0_AL	Overhead Line	39.9	230.0000		6.2			0.4			0.2			98.67		
MWDF3	GR258520	5023004	27.6KV_1P_Y1/0_AL	Overhead Line	26.3	230.0000		6.2			0.4			0.2			98.67		
MWDF3	GR258533	5024740	27.6KV_1P_Y1/0_AL	Overhead Line	7.4	230.0000			187.8			12.0			5.2			98.35	
MWDF3	GR258580	11532106	27.6KV_1P_N1/0_AL	Overhead Line	5.4	530.0000				47.4			3.0			0.6			99.72
MWDF3	GR258589	5022455	27.6KV_1P_Y1/0_AL	Overhead Line	14.8	230.0000			7.2			0.5			0.2			98.35	
MWDF3	GR258590	11237466	27.6KV_1P_Y1/0_AL	Overhead Line	46.8	230.0000			7.2			0.5			0.2			98.35	
MWDF3	GR258591	5022456	27.6KV_1P_Y1/0_AL	Overhead Line	47.6	230.0000			7.2			0.5			0.2			98.35	
MWDF3	GR258594	5136511	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000			14.4			0.9			0.4			98.35	
MWDF3	GR258610	5135970	27.6KV_3P_Y1/0_AL	Overhead Line	79.3	530.0000		330.3	1222.9	228.4	21.0	78.0	14.4	4.0	14.7	2.7	98.89	98.42	99.74
MWDF3	GR258611	11375221	27.6KV_3P_Y1/0_AL	Overhead Line	80.8	530.0000		330.2	1222.8	228.4	21.0	78.0	14.4	4.0	14.7	2.7	98.88	98.41	99.74
MWDF3	GR258612	5024912	27.6KV_3P_Y1/0_AL	Overhead Line	66.7	530.0000		330.2	1215.4	228.4	21.0	77.5	14.4	4.0	14.6	2.7	98.87	98.40	99.75
MWDF3	GR258613	11375229	27.6KV_3P_Y1/0_AL	Overhead Line	1.2	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.87	98.40	99.75
MWDF3	GR258614	11375251	27.6KV_3P_N1/0_AL	Overhead Line	4.3	530.0000		330.2	1215.3	228.5	21.0	77.5	14.4	4.0	14.6	2.7	98.87	98.40	99.75
MWDF3	GR258615	11375232	27.6KV_3P_N1/0_AL	Overhead Line	5.2	530.0000		330.2	1215.3	228.5	21.0	77.5	14.4	4.0	14.6	2.7	98.87	98.40	99.75
MWDF3	GR258616	5023223	27.6KV_3P_Y1/0_AL	Overhead Line	73.4	530.0000		330.2	1215.3	228.5	21.0	77.5	14.4	4.0	14.6	2.7	98.86	98.39	99.76
MWDF3	GR258617	5023224	27.6KV_3P_Y1/0_AL	Overhead Line	75.8	530.0000		330.2	1215.2	228.5	21.0	77.5	14.4	4.0	14.6	2.7	98.85	98.37	99.77
MWDF3	GR258618	5137996	27.6KV_3P_Y1/0_AL	Overhead Line	53.3	530.0000		330.2	1215.1	228.5	21.0	77.5	14.4	4.0	14.6	2.7	98.84	98.37	99.77
MWDF3	GR258619	5137997	27.6KV_3P_Y1/0_AL	Overhead Line	45.1	530.0000		330.2	1215.0	228.5	21.0	77.5	14.4	4.0	14.6	2.7	98.84	98.36	99.77
MWDF3	GR258620	5137998	27.6KV_3P_Y1/0_AL	Overhead Line	71.2	530.0000		330.2	1214.9	228.6	21.0	77.5	14.4	4.0	14.6	2.7	98.83	98.35	99.78
MWDF3	GR258621	5137999	27.6KV_3P_Y1/0_AL	Overhead Line	55.0	530.0000		311.5	1214.8	228.6	19.8	77.5	14.4	3.7	14.6	2.7	98.82	98.34	99.79
MWDF3	GR258622	5023926	27.6KV_3P_Y1/0_AL	Overhead Line	82.1	530.0000		311.5	1214.7	228.6	19.8	77.5	14.4	3.7	14.6	2.7	98.81	98.33	99.80
MWDF3	GR258623	5138000	27.6KV_3P_Y1/0_AL	Overhead Line	74.0	530.0000		311.4	1214.6	228.6	19.8	77.5	14.4	3.7	14.6	2.7	98.80	98.32	99.80
MWDF3	GR258624	5138001	27.6KV_3P_Y1/0_AL	Overhead Line	76.7	530.0000		311.4	1214.4	228.7	19.8	77.5	14.4	3.7	14.6	2.7	98.80	98.31	99.81
MWDF3	GR258625	5138002	27.6KV_3P_Y1/0_AL	Overhead Line	74.7	530.0000		311.4	1214.3	228.7	19.8	77.5	14.4	3.7	14.6	2.7	98.79	98.30	99.82
MWDF3	GR258626	5138003	27.6KV_3P_Y1/0_AL	Overhead Line	77.8	530.0000		311.4	1214.2	228.7	19.8	77.5	14.4	3.7	14.6	2.7	98.78	98.28	99.82
MWDF3	GR258627	5138004	27.6KV_3P_Y1/0_AL	Overhead Line	74.9	530.0000		311.4	1214.1	228.8	19.8	77.5	14.4	3.7	14.6	2.7	98.77	98.27	99.83
MWDF3	GR258628	5023246	27.6KV_3P_Y1/0_AL	Overhead Line	68.3	530.0000		311.4	1213.9	228.8	19.8	77.5	14.4	3.7	14.6	2.7	98.76	98.26	99.84
MWDF3	GR258629	5023247	27.6KV_3P_Y1/0_AL	Overhead Line	82.7	530.0000		311.4	1213.8	228.8	19.8	77.5	14.4	3.7	14.6	2.7	98.75	98.25	99.85
MWDF3	GR258630	5023248	27.6KV_3P_Y1/0_AL	Overhead Line	68.9	530.0000		311.3	1212.2	228.9	19.8	77.4	14.4	3.7	14.6	2.7	98.74	98.24	99.85
MWDF3	GR258631	5022121	27.6KV_1P_Y3/0_AL	Overhead Line	81.2	530.0000			999.5			63.9			12.0			98.23	
MWDF3	GR258632	11475777	27.6KV_1P_N1/0_AL	Overhead Line	7.4	530.0000			0.0			0.0			0.0			98.23	
MWDF3	GR258633	11475778	27.6KV_1P_Y3/0_AL	Overhead Line	5.0	530.0000			999.4			63.9			12.0			98.23	
MWDF3	GR258634	11232985	27.6KV_1P_Y3/0_AL	Overhead Line	5.0	530.0000			999.4			63.9			12.0			98.23	
MWDF3	GR258635	11475775	27.6KV_1P_N1/0_AL	Overhead Line	7.7	530.0000			0.0			0.0			0.0			98.23	
MWDF3	GR258636	11475776	27.6KV_1P_Y3/0_AL	Overhead Line	42.5	530.0000			999.4			63.9			12.0			98.22	
MWDF3	GR258637	5022124	27.6KV_1P_Y3/0_AL	Overhead Line	63.2	530.0000			988.5			63.2			11.9			98.21	
MWDF3	GR258638	5022125	27.6KV_1P_Y3/0_AL	Overhead Line	57.1	530.0000			981.3			62.7			11.8			98.20	
MWDF3	GR258639	5022126	27.6KV_1P_Y3/0_AL	Overhead Line	68.2	530.0000			981.2			62.7			11.8			98.19	
MWDF3	GR258640	5022127	27.6KV_1P_Y3/0_AL	Overhead Line	46.9	530.0000			981.1			62.7			11.8			98.19	
MWDF3	GR258641	5022128	27.6KV_1P_Y3/0_AL	Overhead Line	71.3	530.0000			981.0			62.7			11.8			98.18	
MWDF3	GR258642	5022130	27.6KV_1P_Y3/0_AL	Overhead Line	68.8	530.0000			973.8			62.2			11.7			98.17	
MWDF3	GR258643	5022131	27.6KV_1P_Y3/0_AL	Overhead Line	52.8	530.0000			973.7			62.2			11.7			98.16	
MWDF3	GR258644	5022133	27.6KV_1P_Y3/0_AL	Overhead Line	55.3	530.0000			973.6			62.2			11.7			98.15	
MWDF3	GR258645	5136339	27.6KV_1P_Y3/0_AL	Overhead Line	70.9	530.0000			966.3			61.8			11.7			98.14	
MWDF3	GR258646	5024047	27.6KV_1P_Y3/0_AL	Overhead Line	7.7	530.0000			115.6			7.4			1.4			98.14	
MWDF3	GR258692	5134984	27.6KV_1P_Y3/0_AL	Overhead Line	4.1	530.0000			7.2			0.5			0.1			98.14	
MWDF3	GR258693	5133289	27.6KV_1P_Y2/0_AL	Overhead Line	12.3	530.0000			7.2			0.5			0.1			98.14	
MWDF3	GR258694	5024045	27.6KV_1P_Y2/0_AL	Overhead Line	63.7	530.0000			7.2			0.5			0.1			98.14	
MWDF3	GR258698	5136342	27.6KV_1P_Y3/0_AL	Overhead Line	73.0	530.0000			843.5			53.9			10.2			98.14	
MWDF3	GR258699	11236961	27.6KV_1P_Y3/0_AL	Overhead Line	3.2	530.0000			836.2			53.5			10.1			98.14	
MWDF3	GR258700	5136343	27.6KV_1P_Y3/0_AL	Overhead Line	93.2	530.0000			836.2			53.5			10.1			98.12	
MWDF3	GR258701	5023281	27.6KV_1P_Y3/0_AL	Overhead Line	2.4	530.0000			836.1			53.5			10.1			98.12	
MWDF3	GR258702	5023716	27.6KV_1P_Y2/0_AL	Overhead Line	4.7	530.0000			7.2			0.5			0.1			98.12	
MWDF3	GR258703	5135341	27.6KV_1P_Y2/0_AL	Overhead Line	40.5	530.0000			7.2			0.5			0.1			98.12	
MWDF3	GR258706	5024078	27.6KV_1P_Y3/0_AL	Overhead Line	58.7	530.0000			828.9			53.0			10.0			98.12	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR258707	5024079	27.6KV_1P_Y3/0_AL	Overhead Line	73.8	530.0000			814.4			52.1			9.8			98.11	
MWDF3	GR258708	5024080	27.6KV_1P_Y3/0_AL	Overhead Line	47.0	530.0000			807.2			51.6			9.7			98.10	
MWDF3	GR258709	5024081	27.6KV_1P_Y3/0_AL	Overhead Line	49.5	530.0000			807.1			51.6			9.7			98.10	
MWDF3	GR258710	5024082	27.6KV_1P_Y3/0_AL	Overhead Line	69.9	530.0000			807.1			51.6			9.7			98.09	
MWDF3	GR258711	5135345	27.6KV_1P_Y2/0_AL	Overhead Line	4.4	530.0000			7.2			0.5			0.1			98.09	
MWDF3	GR258712	5135344	27.6KV_1P_Y2/0_AL	Overhead Line	59.5	530.0000			7.2			0.5			0.1			98.09	
MWDF3	GR258715	5137085	27.6KV_1P_Y1/0_AL	Overhead Line	0.3	230.0000			799.8			51.2			22.2			98.09	
MWDF3	GR258716	13173084	27.6KV_1P_N1/0_AL	Overhead Line	5.8	530.0000			144.5			9.2			1.7			98.09	
MWDF3	GR258764	13531670	27.6KV_1P_Y1/0_AL	Overhead Line	65.0	230.0000			655.3			41.9			18.2			98.08	
MWDF3	GR258765	5137080	27.6KV_1P_Y1/0_AL	Overhead Line	38.0	230.0000			648.1			41.5			18.0			98.08	
MWDF3	GR258766	5023514	27.6KV_1P_Y1/0_AL	Overhead Line	44.1	230.0000			648.0			41.5			18.0			98.07	
MWDF3	GR258767	5137081	27.6KV_1P_Y1/0_AL	Overhead Line	75.4	230.0000			648.0			41.5			18.0			98.06	
MWDF3	GR258768	5137082	27.6KV_1P_Y1/0_AL	Overhead Line	79.3	230.0000			647.9			41.5			18.0			98.05	
MWDF3	GR258769	19063212	27.6KV_1P_Y1/0_AL	Overhead Line	15.7	230.0000			7.2			0.5			0.2			98.05	
MWDF3	GR258770	19063264	27.6KV_1P_Y1/0_AL	Overhead Line	29.9	230.0000			7.2			0.5			0.2			98.05	
MWDF3	GR258771	19063672	27.6KV_1P_Y1/0_AL	Overhead Line	73.5	230.0000			7.2			0.5			0.2			98.05	
MWDF3	GR258772	19063673	27.6KV_1P_Y1/0_AL	Overhead Line	79.4	230.0000			7.2			0.5			0.2			98.05	
MWDF3	GR258773	19063674	27.6KV_1P_Y1/0_AL	Overhead Line	61.4	230.0000			7.2			0.5			0.2			98.05	
MWDF3	GR258776	5022731	27.6KV_1P_Y1/0_AL	Overhead Line	75.5	230.0000			640.7			41.0			17.8			98.04	
MWDF3	GR258777	5137481	27.6KV_1P_Y1/0_AL	Overhead Line	69.7	230.0000			633.4			40.5			17.6			98.03	
MWDF3	GR258778	5137482	27.6KV_1P_Y1/0_AL	Overhead Line	68.7	230.0000			633.4			40.5			17.6			98.02	
MWDF3	GR258779	5137483	27.6KV_1P_Y1/0_AL	Overhead Line	69.4	230.0000			633.3			40.5			17.6			98.01	
MWDF3	GR258780	5137484	27.6KV_1P_Y1/0_AL	Overhead Line	68.7	230.0000			633.3			40.5			17.6			98.00	
MWDF3	GR258781	5137485	27.6KV_1P_Y1/0_AL	Overhead Line	71.2	230.0000			633.2			40.6			17.6			97.99	
MWDF3	GR258782	5135696	27.6KV_1P_Y1/0_AL	Overhead Line	4.0	230.0000			7.2			0.5			0.2			97.99	
MWDF3	GR258783	5137486	27.6KV_1P_Y1/0_AL	Overhead Line	66.5	230.0000			7.2			0.5			0.2			97.99	
MWDF3	GR258786	5137487	27.6KV_1P_Y1/0_AL	Overhead Line	51.2	230.0000			626.0			40.1			17.4			97.98	
MWDF3	GR258808	5137488	27.6KV_1P_Y1/0_AL	Overhead Line	52.7	230.0000			568.1			36.4			15.8			97.97	
MWDF3	GR258836	16406919	27.6KV_1P_Y1/0_AL	Overhead Line	42.5	230.0000			495.9			31.8			13.8			97.97	
MWDF3	GR258837	5137489	27.6KV_1P_Y1/0_AL	Overhead Line	48.0	230.0000			488.6			31.3			13.6			97.96	
MWDF3	GR258838	5137490	27.6KV_1P_Y1/0_AL	Overhead Line	73.3	230.0000			488.6			31.3			13.6			97.95	
MWDF3	GR258839	5023674	27.6KV_1P_Y1/0_AL	Overhead Line	73.5	230.0000			481.4			30.8			13.4			97.95	
MWDF3	GR258840	5137493	27.6KV_1P_Y1/0_AL	Overhead Line	75.9	230.0000			481.4			30.8			13.4			97.94	
MWDF3	GR258841	5137494	27.6KV_1P_Y1/0_AL	Overhead Line	60.7	230.0000			474.1			30.4			13.2			97.93	
MWDF3	GR258842	5137495	27.6KV_1P_Y1/0_AL	Overhead Line	62.4	230.0000			474.1			30.4			13.2			97.93	
MWDF3	GR258843	5137496	27.6KV_1P_Y1/0_AL	Overhead Line	61.9	230.0000			474.1			30.4			13.2			97.92	
MWDF3	GR258844	5022898	27.6KV_1P_Y1/0_AL	Overhead Line	69.3	230.0000			474.1			30.4			13.2			97.91	
MWDF3	GR258845	5022697	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000			4.3			0.3			0.1			97.91	
MWDF3	GR258846	5135233	27.6KV_1P_Y1/0_AL	Overhead Line	72.0	230.0000			4.3			0.3			0.1			97.91	
MWDF3	GR258849	5135238	27.6KV_1P_Y3/0_AL	Overhead Line	27.3	530.0000			469.7			30.1			5.7			97.91	
MWDF3	GR258850	5135239	27.6KV_1P_Y3/0_AL	Overhead Line	26.6	530.0000			462.5			29.6			5.6			97.91	
MWDF3	GR258851	5135240	27.6KV_1P_Y3/0_AL	Overhead Line	51.6	530.0000			455.3			29.2			5.5			97.91	
MWDF3	GR258852	5135241	27.6KV_1P_Y3/0_AL	Overhead Line	81.3	530.0000			455.3			29.2			5.5			97.90	
MWDF3	GR258853	5135642	27.6KV_1P_Y3/0_AL	Overhead Line	74.1	530.0000			455.3			29.2			5.5			97.90	
MWDF3	GR258854	5135643	27.6KV_1P_Y3/0_AL	Overhead Line	74.8	530.0000			455.3			29.2			5.5			97.89	
MWDF3	GR258855	5135644	27.6KV_1P_Y3/0_AL	Overhead Line	76.1	530.0000			455.3			29.2			5.5			97.89	
MWDF3	GR258856	5136314	27.6KV_1P_Y1/0_AL	Overhead Line	55.5	230.0000			450.9			28.9			12.6			97.88	
MWDF3	GR258857	5136315	27.6KV_1P_Y1/0_AL	Overhead Line	55.5	230.0000			450.9			28.9			12.6			97.87	
MWDF3	GR258858	5136316	27.6KV_1P_Y1/0_AL	Overhead Line	72.4	230.0000			442.4			28.4			12.3			97.87	
MWDF3	GR258859	5137921	27.6KV_1P_Y1/0_AL	Overhead Line	75.5	230.0000			442.3			28.4			12.3			97.86	
MWDF3	GR258860	5137922	27.6KV_1P_Y1/0_AL	Overhead Line	85.6	230.0000			442.3			28.4			12.3			97.85	
MWDF3	GR258861	5137923	27.6KV_1P_Y1/0_AL	Overhead Line	72.6	230.0000			442.3			28.4			12.3			97.84	
MWDF3	GR258862	5137924	27.6KV_1P_Y1/0_AL	Overhead Line	74.7	230.0000			442.3			28.4			12.3			97.84	
MWDF3	GR258863	5137925	27.6KV_1P_Y1/0_AL	Overhead Line	80.5	230.0000			442.2			28.4			12.3			97.83	
MWDF3	GR258864	5137926	27.6KV_1P_Y1/0_AL	Overhead Line	74.4	230.0000			442.2			28.4			12.3			97.82	
MWDF3	GR258865	5136698	27.6KV_1P_Y1/0_AL	Overhead Line	77.4	230.0000			442.2			28.4			12.3			97.81	
MWDF3	GR258866	5102377	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000			7.2			0.5			0.2			97.81	
MWDF3	GR258867	5137683	27.6KV_1P_Y1/0_AL	Overhead Line	42.4	230.0000			7.2			0.5			0.2			97.81	
MWDF3	GR258868	5137684	27.6KV_1P_Y1/0_AL	Overhead Line	41.3	230.0000			7.2			0.5			0.2			97.81	
MWDF3	GR258869	5137686	27.6KV_1P_Y1/0_AL	Overhead Line	27.4	230.0000			7.2			0.5			0.2			97.81	
MWDF3	GR258872	5136533	27.6KV_1P_Y1/0_AL	Overhead Line	84.1	230.0000			435.0			27.9			12.1			97.81	
MWDF3	GR258873	5136534	27.6KV_1P_Y1/0_AL	Overhead Line	59.7	230.0000			434.9			27.9			12.1			97.80	
MWDF3	GR258874	5136535	27.6KV_1P_Y1/0_AL	Overhead Line	35.6	230.0000			432.0			27.7			12.1			97.80	
MWDF3	GR258875	5136536	27.6KV_1P_Y1/0_AL	Overhead Line	78.9	230.0000			430.6			27.6			12.0			97.79	
MWDF3	GR258876	5135824	27.6KV_1P_Y1/0_AL	Overhead Line	54.4	230.0000			430.6			27.6			12.0			97.78	
MWDF3	GR258877	5135825	27.6KV_1P_Y1/0_AL	Overhead Line	22.5	230.0000			430.5			27.6			12.0			97.78	
MWDF3	GR258878	5132023	27.6KV_1P_Y1/0_AL	Overhead Line	4.6	230.0000			7.2			0.5			0.2			97.78	
MWDF3	GR258879	5137687	27.6KV_1P_Y1/0_AL	Overhead Line	24.8	230.0000			7.2			0.5			0.2			97.78	
MWDF3	GR258880	5137688	27.6KV_1P_Y1/0_AL	Overhead Line	32.7	230.0000			7.2			0.5			0.2			97.78	
MWDF3	GR258883	5135826	27.6KV_1P_Y1/0_AL	Overhead Line	20.8	230.0000			423.3			27.2			11.8			97.78	
MWDF3	GR258884	5101939	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000			7.2			0.5			0.2			97.78	
MWDF3	GR258885	5137690	27.6KV_1P_Y1/0_AL	Overhead Line	13.1	230.0000			7.2			0.5			0.2			97.78	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR258888	5136074	27.6KV_1P_Y1/0_AL	Overhead Line	77.0	230.0000			416.1			26.7			11.6			97.77	
MWDF3	GR258889	5136075	27.6KV_1P_Y1/0_AL	Overhead Line	79.4	230.0000			416.1			26.7			11.6			97.77	
MWDF3	GR258890	5134501	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000			7.2			0.5			0.2			97.77	
MWDF3	GR258891	5137721	27.6KV_1P_Y1/0_AL	Overhead Line	65.7	230.0000			7.2			0.5			0.2			97.77	
MWDF3	GR258892	5137723	27.6KV_1P_Y1/0_AL	Overhead Line	44.4	230.0000			7.2			0.5			0.2			97.77	
MWDF3	GR258893	5137724	27.6KV_1P_Y1/0_AL	Overhead Line	72.6	230.0000			7.2			0.5			0.2			97.77	
MWDF3	GR258894	5138125	27.6KV_1P_Y1/0_AL	Overhead Line	70.6	230.0000			7.2			0.5			0.2			97.77	
MWDF3	GR258895	5138126	27.6KV_1P_Y1/0_AL	Overhead Line	79.7	230.0000			7.2			0.5			0.2			97.77	
MWDF3	GR258898	5137719	27.6KV_1P_Y1/0_AL	Overhead Line	81.4	230.0000			408.9			26.2			11.4			97.76	
MWDF3	GR258899	5134487	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000			7.2			0.5			0.2			97.76	
MWDF3	GR258900	5138127	27.6KV_1P_Y1/0_AL	Overhead Line	46.6	230.0000			7.2			0.5			0.2			97.76	
MWDF3	GR258901	5022740	27.6KV_1P_Y1/0_AL	Overhead Line	76.5	230.0000			7.2			0.5			0.2			97.76	
MWDF3	GR258902	5138128	27.6KV_1P_Y1/0_AL	Overhead Line	75.3	230.0000			7.2			0.5			0.2			97.76	
MWDF3	GR258903	5136333	27.6KV_1P_Y1/0_AL	Overhead Line	69.7	230.0000			7.2			0.5			0.2			97.76	
MWDF3	GR258904	5136489	27.6KV_1P_Y1/0_AL	Overhead Line	76.4	230.0000			7.2			0.5			0.2			97.76	
MWDF3	GR258905	5136490	27.6KV_1P_Y1/0_AL	Overhead Line	66.8	230.0000			7.2			0.5			0.2			97.76	
MWDF3	GR258908	5136491	27.6KV_1P_Y1/0_AL	Overhead Line	83.8	230.0000			401.7			25.8			11.2			97.75	
MWDF3	GR258909	5136492	27.6KV_1P_Y1/0_AL	Overhead Line	71.1	230.0000			401.7			25.8			11.2			97.74	
MWDF3	GR258910	5136895	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000			295.6			19.0			8.3			97.74	
MWDF3	GR258911	5102202	27.6KV_1P_Y1/0_AL	Overhead Line	51.0	230.0000			295.6			19.0			8.3			97.74	
MWDF3	GR258912	5101372	27.6KV_1P_Y1/0_AL	Overhead Line	58.7	230.0000			288.3			18.5			8.0			97.74	
MWDF3	GR258913	5101565	27.6KV_1P_Y1/0_AL	Overhead Line	75.9	230.0000			288.3			18.5			8.0			97.73	
MWDF3	GR258914	5132338	27.6KV_1P_Y1/0_AL	Overhead Line	58.9	230.0000			288.3			18.5			8.0			97.73	
MWDF3	GR258915	5132887	27.6KV_1P_Y1/0_AL	Overhead Line	64.0	230.0000			281.1			18.1			7.8			97.72	
MWDF3	GR258916	5131870	27.6KV_1P_Y1/0_AL	Overhead Line	73.0	230.0000			270.3			17.4			7.5			97.72	
MWDF3	GR258917	5132637	27.6KV_1P_Y1/0_AL	Overhead Line	71.9	230.0000			270.3			17.4			7.5			97.72	
MWDF3	GR258918	5022157	27.6KV_1P_Y1/0_AL	Overhead Line	70.9	230.0000			270.3			17.4			7.5			97.71	
MWDF3	GR258919	5132662	27.6KV_1P_Y1/0_AL	Overhead Line	78.1	230.0000			255.8			16.4			7.1			97.71	
MWDF3	GR258920	5132022	27.6KV_1P_Y1/0_AL	Overhead Line	73.6	230.0000			248.6			16.0			6.9			97.70	
MWDF3	GR258921	5132259	27.6KV_1P_Y1/0_AL	Overhead Line	77.7	230.0000			234.2			15.0			6.5			97.70	
MWDF3	GR258922	5132271	27.6KV_1P_Y1/0_AL	Overhead Line	70.1	230.0000			234.2			15.0			6.5			97.69	
MWDF3	GR258923	5132430	27.6KV_1P_Y1/0_AL	Overhead Line	73.3	230.0000			227.0			14.6			6.3			97.69	
MWDF3	GR258924	5132441	27.6KV_1P_Y1/0_AL	Overhead Line	68.0	230.0000			219.8			14.1			6.1			97.69	
MWDF3	GR258925	5132455	27.6KV_1P_Y1/0_AL	Overhead Line	76.2	230.0000			212.6			13.7			5.9			97.68	
MWDF3	GR258926	5133311	27.6KV_1P_Y1/0_AL	Overhead Line	36.6	230.0000			205.4			13.2			5.7			97.68	
MWDF3	GR258927	5133488	27.6KV_1P_Y1/0_AL	Overhead Line	62.9	230.0000			205.4			13.2			5.7			97.68	
MWDF3	GR258928	5133489	27.6KV_1P_Y1/0_AL	Overhead Line	71.5	230.0000			205.4			13.2			5.7			97.68	
MWDF3	GR258929	5133511	27.6KV_1P_Y1/0_AL	Overhead Line	65.4	230.0000			194.5			12.5			5.4			97.67	
MWDF3	GR258930	5133512	27.6KV_1P_Y1/0_AL	Overhead Line	64.0	230.0000			187.3			12.0			5.2			97.67	
MWDF3	GR258931	5133513	27.6KV_1P_Y1/0_AL	Overhead Line	71.2	230.0000			187.3			12.0			5.2			97.67	
MWDF3	GR258932	11266246	27.6KV_1P_Y1/0_AL	Overhead Line	49.0	230.0000			172.9			11.1			4.8			97.67	
MWDF3	GR258933	11266251	27.6KV_1P_Y1/0_AL	Overhead Line	4.1	230.0000			172.9			11.1			4.8			97.67	
MWDF3	GR258934	11266247	27.6KV_1P_Y1/0_AL	Overhead Line	51.1	230.0000			172.9			11.1			4.8			97.66	
MWDF3	GR258935	15582105	27.6KV_1P_N1/0_AL	Overhead Line	57.1	530.0000			172.9			11.1			2.1			97.66	
MWDF3	GR258936	15582107	27.6KV_1P_N1/0_AL	Overhead Line	57.3	530.0000			165.7			10.6			2.0			97.66	
MWDF3	GR258937	15582108	27.6KV_1P_N1/0_AL	Overhead Line	48.4	530.0000			158.5			10.2			1.9			97.66	
MWDF3	GR258938	15582110	27.6KV_1P_N1/0_AL	Overhead Line	66.7	530.0000			136.8			8.8			1.7			97.66	
MWDF3	GR258939	15582112	27.6KV_1P_N1/0_AL	Overhead Line	75.3	530.0000			129.6			8.3			1.6			97.66	
MWDF3	GR258940	15582114	27.6KV_1P_N1/0_AL	Overhead Line	71.7	530.0000			122.4			7.9			1.5			97.66	
MWDF3	GR258941	15582119	27.6KV_1P_N1/0_AL	Overhead Line	75.0	530.0000			122.4			7.9			1.5			97.65	
MWDF3	GR258942	15582120	27.6KV_1P_N1/0_AL	Overhead Line	68.2	530.0000			100.8			6.5			1.2			97.65	
MWDF3	GR258943	15582121	27.6KV_1P_N1/0_AL	Overhead Line	61.4	530.0000			100.8			6.5			1.2			97.65	
MWDF3	GR258944	15582124	27.6KV_1P_N1/0_AL	Overhead Line	64.1	530.0000			100.8			6.5			1.2			97.65	
MWDF3	GR258945	15582125	27.6KV_1P_N1/0_AL	Overhead Line	72.7	530.0000			100.8			6.5			1.2			97.65	
MWDF3	GR258946	15582126	27.6KV_1P_N1/0_AL	Overhead Line	66.7	530.0000			93.6			6.0			1.1			97.65	
MWDF3	GR258947	15582127	27.6KV_1P_N1/0_AL	Overhead Line	71.9	530.0000			50.4			3.2			0.6			97.65	
MWDF3	GR258948	15582128	27.6KV_1P_N1/0_AL	Overhead Line	70.3	530.0000			50.4			3.2			0.6			97.65	
MWDF3	GR258949	15582133	27.6KV_1P_N1/0_AL	Overhead Line	80.4	530.0000			35.9			2.3			0.4			97.65	
MWDF3	GR258950	15582134	27.6KV_1P_N1/0_AL	Overhead Line	72.3	530.0000			35.9			2.3			0.4			97.65	
MWDF3	GR258951	15582136	27.6KV_1P_N1/0_AL	Overhead Line	67.4	530.0000			36.0			2.3			0.4			97.65	
MWDF3	GR258952	15582138	27.6KV_1P_N1/0_AL	Overhead Line	62.8	530.0000			36.0			2.3			0.4			97.65	
MWDF3	GR258953	15582142	27.6KV_1P_N1/0_AL	Overhead Line	67.8	530.0000			21.5			1.4			0.3			97.65	
MWDF3	GR258954	15582143	27.6KV_1P_N1/0_AL	Overhead Line	65.9	530.0000			21.5			1.4			0.3			97.65	
MWDF3	GR258955	15582144	27.6KV_1P_N1/0_AL	Overhead Line	65.0	530.0000			21.6			1.4			0.3			97.65	
MWDF3	GR258956	15582145	27.6KV_1P_N1/0_AL	Overhead Line	69.3	530.0000			14.4			0.9			0.2			97.65	
MWDF3	GR258957	15582146	27.6KV_1P_N1/0_AL	Overhead Line	64.4	530.0000			14.4			0.9			0.2			97.65	
MWDF3	GR258958	15582147	27.6KV_1P_N1/0_AL	Overhead Line	66.2	530.0000			14.4			0.9			0.2			97.65	
MWDF3	GR258959	15582148	27.6KV_1P_N1/0_AL	Overhead Line	84.8	530.0000			7.2			0.5			0.1			97.65	
MWDF3	GR258960	15582149	27.6KV_1P_N1/0_AL	Overhead Line	73.3	530.0000			7.2			0.5			0.1			97.65	
MWDF3	GR258961	15582150	27.6KV_1P_N1/0_AL	Overhead Line	73.8	530.0000			0.1			0.0			0.0			97.65	
MWDF3	GR258972	15586551	27.6KV_1P_N1/0_AL	Overhead Line	76.5	530.0000			43.3			2.8			0.5			97.65	
MWDF3	GR258973	15586552	27.6KV_1P_N1/0_AL	Overhead Line	74.2	530.0000			36.1			2.3			0.4			97.65	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR258974	15586553	27.6KV_1P_N1/0_AL	Overhead Line	83.7	530.0000			36.1			2.3			0.4			97.65	
MWDF3	GR258975	15586556	27.6KV_1P_N1/0_AL	Overhead Line	62.2	530.0000			14.4			0.9			0.2			97.65	
MWDF3	GR258976	15586558	27.6KV_1P_N1/0_AL	Overhead Line	60.6	530.0000			14.4			0.9			0.2			97.65	
MWDF3	GR258977	15586560	27.6KV_1P_N1/0_AL	Overhead Line	69.2	530.0000			0.1			0.0			0.0			97.65	
MWDF3	GR259024	5138138	27.6KV_1P_Y1/0_AL	Overhead Line	65.6	230.0000			106.2			6.8			3.0			97.74	
MWDF3	GR259025	5138139	27.6KV_1P_Y1/0_AL	Overhead Line	71.3	230.0000			106.2			6.8			3.0			97.74	
MWDF3	GR259026	5138140	27.6KV_1P_Y1/0_AL	Overhead Line	78.4	230.0000			106.2			6.8			3.0			97.74	
MWDF3	GR259027	5135048	27.6KV_1P_Y1/0_AL	Overhead Line	88.5	230.0000			103.3			6.6			2.9			97.74	
MWDF3	GR259028	5135050	27.6KV_1P_Y1/0_AL	Overhead Line	73.0	230.0000			101.9			6.5			2.8			97.74	
MWDF3	GR259029	5135051	27.6KV_1P_Y1/0_AL	Overhead Line	64.9	230.0000			101.9			6.5			2.8			97.73	
MWDF3	GR259030	11251433	27.6KV_1P_N1/0_AL	Overhead Line	19.0	530.0000			7.2			0.5			0.1			97.73	
MWDF3	GR259033	5135053	27.6KV_1P_Y1/0_AL	Overhead Line	75.4	230.0000			94.7			6.1			2.6			97.73	
MWDF3	GR259034	5135054	27.6KV_1P_Y1/0_AL	Overhead Line	66.7	230.0000			80.2			5.2			2.2			97.73	
MWDF3	GR259035	5137545	27.6KV_1P_Y3/0_AL	Overhead Line	73.1	530.0000			80.3			5.2			1.0			97.73	
MWDF3	GR259036	5135502	27.6KV_1P_Y3/0_AL	Overhead Line	74.7	530.0000			80.3			5.2			1.0			97.73	
MWDF3	GR259037	14652053	27.6KV_1P_N1/0_AL	Overhead Line	17.8	530.0000			7.2			0.5			0.1			97.73	
MWDF3	GR259038	14652055	27.6KV_1P_N1/0_AL	Overhead Line	16.9	530.0000			7.2			0.5			0.1			97.73	
MWDF3	GR259041	5135503	27.6KV_1P_Y3/0_AL	Overhead Line	77.5	530.0000			73.1			4.7			0.9			97.73	
MWDF3	GR259042	5135504	27.6KV_1P_Y3/0_AL	Overhead Line	79.3	530.0000			73.1			4.7			0.9			97.73	
MWDF3	GR259043	11251425	27.6KV_1P_N1/0_AL	Overhead Line	19.3	530.0000			7.2			0.5			0.1			97.73	
MWDF3	GR259046	5135505	27.6KV_1P_Y3/0_AL	Overhead Line	81.6	530.0000			65.9			4.2			0.8			97.73	
MWDF3	GR259047	5135506	27.6KV_1P_Y3/0_AL	Overhead Line	68.5	530.0000			65.9			4.2			0.8			97.73	
MWDF3	GR259048	5135507	27.6KV_1P_Y3/0_AL	Overhead Line	73.9	530.0000			58.7			3.8			0.7			97.73	
MWDF3	GR259049	5135663	27.6KV_1P_Y3/0_AL	Overhead Line	72.3	530.0000			58.7			3.8			0.7			97.73	
MWDF3	GR259050	5135665	27.6KV_1P_Y3/0_AL	Overhead Line	70.9	530.0000			58.7			3.8			0.7			97.73	
MWDF3	GR259051	5135666	27.6KV_1P_Y3/0_AL	Overhead Line	71.2	530.0000			58.7			3.8			0.7			97.72	
MWDF3	GR259052	5135667	27.6KV_1P_Y3/0_AL	Overhead Line	67.3	530.0000			58.7			3.8			0.7			97.72	
MWDF3	GR259053	5135668	27.6KV_1P_Y3/0_AL	Overhead Line	71.2	530.0000			58.7			3.8			0.7			97.72	
MWDF3	GR259054	5135669	27.6KV_1P_Y3/0_AL	Overhead Line	69.0	530.0000			58.8			3.8			0.7			97.72	
MWDF3	GR259055	5137363	27.6KV_1P_Y3/0_AL	Overhead Line	68.1	530.0000			58.8			3.8			0.7			97.72	
MWDF3	GR259056	5137364	27.6KV_1P_Y3/0_AL	Overhead Line	78.3	530.0000			58.8			3.8			0.7			97.72	
MWDF3	GR259057	5137365	27.6KV_1P_Y1/0_AL	Overhead Line	74.5	230.0000			58.8			3.8			1.6			97.72	
MWDF3	GR259058	5135274	27.6KV_1P_Y3/0_AL	Overhead Line	3.0	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259059	5023715	27.6KV_1P_Y3/0_AL	Overhead Line	69.3	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259060	5135320	27.6KV_1P_Y3/0_AL	Overhead Line	60.5	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259063	5135672	27.6KV_1P_Y3/0_AL	Overhead Line	5.4	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259064	5135321	27.6KV_1P_Y3/0_AL	Overhead Line	10.2	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259065	5135323	27.6KV_1P_Y3/0_AL	Overhead Line	42.7	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259068	5137525	27.6KV_1P_Y3/0_AL	Overhead Line	77.1	530.0000			44.4			2.9			0.5			97.72	
MWDF3	GR259069	5137526	27.6KV_1P_Y3/0_AL	Overhead Line	88.5	530.0000			44.4			2.9			0.5			97.72	
MWDF3	GR259070	5137527	27.6KV_1P_Y3/0_AL	Overhead Line	73.4	530.0000			44.4			2.9			0.5			97.72	
MWDF3	GR259071	5137528	27.6KV_1P_Y3/0_AL	Overhead Line	86.8	530.0000			44.4			2.9			0.5			97.72	
MWDF3	GR259072	5023356	27.6KV_1P_Y3/0_AL	Overhead Line	2.4	530.0000			43.0			2.8			0.5			97.72	
MWDF3	GR259073	5137529	27.6KV_1P_Y3/0_AL	Overhead Line	4.9	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259074	11251365	27.6KV_1P_Y3/0_AL	Overhead Line	38.4	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259075	5137530	27.6KV_1P_Y3/0_AL	Overhead Line	64.8	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259076	5137531	27.6KV_1P_Y3/0_AL	Overhead Line	56.7	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259079	5137532	27.6KV_1P_Y3/0_AL	Overhead Line	45.5	530.0000			35.8			2.3			0.4			97.72	
MWDF3	GR259080	11251284	27.6KV_1P_Y3/0_AL	Overhead Line	45.3	530.0000			21.5			1.4			0.3			97.72	
MWDF3	GR259081	5137534	27.6KV_1P_Y3/0_AL	Overhead Line	3.3	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259082	11251278	27.6KV_1P_Y3/0_AL	Overhead Line	71.1	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259085	5137535	27.6KV_1P_Y3/0_AL	Overhead Line	97.6	530.0000			14.3			0.9			0.2			97.72	
MWDF3	GR259086	5023704	27.6KV_1P_Y3/0_AL	Overhead Line	93.6	530.0000			14.3			0.9			0.2			97.72	
MWDF3	GR259087	5022935	27.6KV_1P_Y3/0_AL	Overhead Line	92.5	530.0000			14.3			0.9			0.2			97.72	
MWDF3	GR259088	5137536	27.6KV_1P_Y3/0_AL	Overhead Line	91.4	530.0000			14.3			0.9			0.2			97.72	
MWDF3	GR259089	5137537	27.6KV_1P_Y3/0_AL	Overhead Line	68.0	530.0000			14.3			0.9			0.2			97.72	
MWDF3	GR259090	5135348	27.6KV_1P_Y3/0_AL	Overhead Line	3.0	530.0000			14.3			0.9			0.2			97.72	
MWDF3	GR259091	5137538	27.6KV_1P_Y3/0_AL	Overhead Line	103.3	530.0000			14.3			0.9			0.2			97.72	
MWDF3	GR259092	5137863	27.6KV_1P_Y3/0_AL	Overhead Line	76.4	530.0000			10.0			0.6			0.1			97.72	
MWDF3	GR259093	5137861	27.6KV_1P_Y3/0_AL	Overhead Line	79.7	530.0000			10.0			0.6			0.1			97.72	
MWDF3	GR259094	5023331	27.6KV_1P_Y3/0_AL	Overhead Line	80.9	530.0000			10.0			0.6			0.1			97.72	
MWDF3	GR259095	5137864	27.6KV_1P_Y3/0_AL	Overhead Line	79.9	530.0000			10.0			0.6			0.1			97.72	
MWDF3	GR259096	5137865	27.6KV_1P_Y3/0_AL	Overhead Line	83.4	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259097	5137866	27.6KV_1P_Y3/0_AL	Overhead Line	99.6	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259098	5137867	27.6KV_1P_Y3/0_AL	Overhead Line	96.0	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259105	11251312	27.6KV_1P_N1/0_AL	Overhead Line	4.2	530.0000			14.4			0.9			0.2			97.72	
MWDF3	GR259106	11251325	27.6KV_1P_N1/0_AL	Overhead Line	46.2	530.0000			14.4			0.9			0.2			97.72	
MWDF3	GR259107	11251322	27.6KV_1P_N1/0_AL	Overhead Line	58.0	530.0000			14.4			0.9			0.2			97.72	
MWDF3	GR259108	11251321	27.6KV_1P_N1/0_AL	Overhead Line	60.4	530.0000			14.4			0.9			0.2			97.72	
MWDF3	GR259109	11251319	27.6KV_1P_N1/0_AL	Overhead Line	49.7	530.0000			14.4			0.9			0.2			97.72	
MWDF3	GR259110	11251317	27.6KV_1P_N1/0_AL	Overhead Line	24.8	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259111	11251316	27.6KV_1P_N1/0_AL	Overhead Line	21.9	530.0000			7.2			0.5			0.1			97.72	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR259114	11274665	27.6KV_1P_N1/0_AL	Overhead Line	77.2	530.0000			7.2			0.5			0.1			97.72	
MWDF3	GR259121	5136442	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000			14.4			0.9			0.4			97.73	
MWDF3	GR259122	5135055	27.6KV_1P_Y1/0_AL	Overhead Line	31.5	230.0000			14.4			0.9			0.4			97.73	
MWDF3	GR259125	5136441	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000			1.4			0.1			0.0			97.74	
MWDF3	GR259126	5135049	27.6KV_1P_Y1/0_AL	Overhead Line	69.0	230.0000			1.4			0.1			0.0			97.74	
MWDF3	GR259129	5136440	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000			2.9			0.2			0.1			97.74	
MWDF3	GR259130	5135046	27.6KV_1P_Y1/0_AL	Overhead Line	69.0	230.0000			2.9			0.2			0.1			97.74	
MWDF3	GR259137	5137101	27.6KV_1P_Y1/0_AL	Overhead Line	5.0	230.0000			8.6			0.5			0.2			97.87	
MWDF3	GR259138	15448936	27.6KV_1P_Y1/0_AL	Overhead Line	65.1	230.0000			8.6			0.5			0.2			97.87	
MWDF3	GR259139	5137103	27.6KV_1P_Y1/0_AL	Overhead Line	70.1	230.0000			8.6			0.5			0.2			97.87	
MWDF3	GR259140	5137104	27.6KV_1P_Y1/0_AL	Overhead Line	66.3	230.0000			8.6			0.5			0.2			97.87	
MWDF3	GR259141	5023671	27.6KV_1P_Y1/0_AL	Overhead Line	73.1	230.0000			7.1			0.5			0.2			97.87	
MWDF3	GR259142	5137106	27.6KV_1P_Y1/0_AL	Overhead Line	71.2	230.0000			7.1			0.5			0.2			97.87	
MWDF3	GR259143	5137107	27.6KV_1P_Y1/0_AL	Overhead Line	54.7	230.0000			7.1			0.5			0.2			97.87	
MWDF3	GR259144	5137108	27.6KV_1P_Y1/0_AL	Overhead Line	63.0	230.0000			7.1			0.5			0.2			97.87	
MWDF3	GR259145	5137109	27.6KV_1P_Y1/0_AL	Overhead Line	66.9	230.0000			7.2			0.5			0.2			97.87	
MWDF3	GR259146	5137266	27.6KV_1P_Y1/0_AL	Overhead Line	64.9	230.0000			7.2			0.5			0.2			97.87	
MWDF3	GR259147	5137267	27.6KV_1P_Y1/0_AL	Overhead Line	64.3	230.0000			7.2			0.5			0.2			97.87	
MWDF3	GR259148	5137511	27.6KV_1P_Y1/0_AL	Overhead Line	67.2	230.0000			7.2			0.5			0.2			97.87	
MWDF3	GR259149	5137512	27.6KV_1P_Y1/0_AL	Overhead Line	3.6	230.0000			7.2			0.5			0.2			97.87	
MWDF3	GR259150	11234584	27.6KV_1P_Y1/0_AL	Overhead Line	79.4	230.0000			7.2			0.5			0.2			97.87	
MWDF3	GR259151	5135876	27.6KV_1P_Y1/0_AL	Overhead Line	89.2	230.0000			7.2			0.5			0.2			97.87	
MWDF3	GR259152	5135877	27.6KV_1P_Y1/0_AL	Overhead Line	47.8	230.0000			7.2			0.5			0.2			97.87	
MWDF3	GR259161	5137100	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000			7.2			0.5			0.2			97.91	
MWDF3	GR259162	5135235	27.6KV_1P_Y1/0_AL	Overhead Line	87.3	230.0000			7.2			0.5			0.2			97.91	
MWDF3	GR259163	5135236	27.6KV_1P_Y1/0_AL	Overhead Line	77.7	230.0000			7.2			0.5			0.2			97.91	
MWDF3	GR259164	5135237	27.6KV_1P_Y1/0_AL	Overhead Line	90.4	230.0000			7.2			0.5			0.2			97.91	
MWDF3	GR259169	5137756	27.6KV_1P_Y1/0_AL	Overhead Line	4.4	230.0000			7.2			0.5			0.2			97.95	
MWDF3	GR259170	5022735	27.6KV_1P_Y1/0_AL	Overhead Line	51.3	230.0000			7.2			0.5			0.2			97.95	
MWDF3	GR259171	5137491	27.6KV_1P_Y1/0_AL	Overhead Line	70.8	230.0000			7.2			0.5			0.2			97.95	
MWDF3	GR259172	5137492	27.6KV_1P_Y1/0_AL	Overhead Line	66.9	230.0000			7.2			0.5			0.2			97.95	
MWDF3	GR259189	5134714	27.6KV_1P_Y3/0_AL	Overhead Line	2.5	530.0000			7.2			0.5			0.1			98.18	
MWDF3	GR259190	5137263	27.6KV_1P_Y2/0_AL	Overhead Line	32.5	530.0000			7.2			0.5			0.1			98.18	
MWDF3	GR259191	5134717	27.6KV_1P_Y2/0_AL	Overhead Line	51.2	530.0000			7.2			0.5			0.1			98.18	
MWDF3	GR259198	5023249	27.6KV_3P_Y1/0_AL	Overhead Line	21.5	530.0000		311.3	212.6	228.9	19.8	13.6	14.4	3.7	2.6	2.7	98.74	98.24	99.85
MWDF3	GR259199	5023250	27.6KV_3P_Y1/0_AL	Overhead Line	69.6	530.0000		311.3	212.6	228.9	19.8	13.6	14.4	3.7	2.6	2.7	98.74	98.24	99.85
MWDF3	GR259200	5023251	27.6KV_3P_Y1/0_AL	Overhead Line	82.6	530.0000		311.3	212.6	228.9	19.8	13.6	14.4	3.7	2.6	2.7	98.74	98.24	99.85
MWDF3	GR259201	5023252	27.6KV_3P_Y1/0_AL	Overhead Line	40.7	530.0000		311.3	212.6	228.9	19.8	13.6	14.4	3.7	2.6	2.7	98.74	98.24	99.85
MWDF3	GR259202	5023253	27.6KV_3P_Y1/0_AL	Overhead Line	38.5	530.0000		311.4	212.6	228.9	19.8	13.6	14.4	3.7	2.6	2.7	98.74	98.24	99.85
MWDF3	GR259203	5023254	27.6KV_3P_Y1/0_AL	Overhead Line	75.1	530.0000		311.4	212.6	228.9	19.8	13.6	14.4	3.7	2.6	2.7	98.73	98.24	99.84
MWDF3	GR259204	5023866	27.6KV_3P_Y1/0_AL	Overhead Line	77.8	530.0000		311.4	212.7	228.9	19.8	13.6	14.4	3.7	2.6	2.7	98.73	98.24	99.84
MWDF3	GR259205	5023867	27.6KV_3P_Y1/0_AL	Overhead Line	33.6	530.0000		274.0	212.7	228.9	17.4	13.6	14.4	3.3	2.6	2.7	98.73	98.24	99.84
MWDF3	GR259206	5023868	27.6KV_3P_Y1/0_AL	Overhead Line	44.9	530.0000		274.0	212.7	229.0	17.4	13.6	14.4	3.3	2.6	2.7	98.73	98.23	99.84
MWDF3	GR259207	11658925	27.6KV_3P_N1/0_AL	Overhead Line	4.4	530.0000		49.9	101.1	229.3	3.2	6.5	14.4	0.6	1.2	2.7	98.73	98.23	99.84
MWDF3	GR259234	5023869	27.6KV_3P_Y1/0_AL	Overhead Line	69.8	530.0000		224.1	111.6	1.7	14.2	7.1	0.1	2.7	1.3	0.0	98.73	98.24	99.84
MWDF3	GR259235	5023870	27.6KV_3P_Y1/0_AL	Overhead Line	75.7	530.0000		224.1	111.6	1.6	14.2	7.1	0.1	2.7	1.3	0.0	98.72	98.24	99.84
MWDF3	GR259236	5023871	27.6KV_3P_Y1/0_AL	Overhead Line	76.7	530.0000		224.2	111.6	1.5	14.2	7.1	0.1	2.7	1.3	0.0	98.72	98.24	99.84
MWDF3	GR259237	5024129	27.6KV_3P_Y1/0_AL	Overhead Line	74.1	530.0000		224.2	111.6	1.4	14.2	7.1	0.1	2.7	1.3	0.0	98.72	98.24	99.84
MWDF3	GR259238	5023872	27.6KV_3P_Y1/0_AL	Overhead Line	44.9	530.0000		224.2	97.3	1.4	14.3	6.2	0.1	2.7	1.2	0.0	98.71	98.24	99.84
MWDF3	GR259239	5023873	27.6KV_3P_Y1/0_AL	Overhead Line	54.3	530.0000		224.2	97.3	1.3	14.3	6.2	0.1	2.7	1.2	0.0	98.71	98.24	99.84
MWDF3	GR259240	5023874	27.6KV_3P_Y1/0_AL	Overhead Line	71.3	530.0000		224.2	97.3	1.3	14.3	6.2	0.1	2.7	1.2	0.0	98.71	98.24	99.84
MWDF3	GR259241	5023415	27.6KV_3P_Y1/0_AL	Overhead Line	44.3	530.0000		224.2	97.3	1.2	14.3	6.2	0.1	2.7	1.2	0.0	98.71	98.24	99.84
MWDF3	GR259242	5023416	27.6KV_3P_Y1/0_AL	Overhead Line	41.4	530.0000		224.2	97.3	1.2	14.3	6.2	0.1	2.7	1.2	0.0	98.71	98.24	99.84
MWDF3	GR259243	5023417	27.6KV_3P_Y1/0_AL	Overhead Line	77.9	530.0000		224.2	97.3	1.1	14.3	6.2	0.1	2.7	1.2	0.0	98.70	98.24	99.84
MWDF3	GR259244	5023418	27.6KV_3P_Y1/0_AL	Overhead Line	78.3	530.0000		224.2	97.4	1.0	14.3	6.2	0.1	2.7	1.2	0.0	98.70	98.25	99.84
MWDF3	GR259245	5023419	27.6KV_3P_Y1/0_AL	Overhead Line	75.6	530.0000		224.2	90.2	0.9	14.3	5.8	0.1	2.7	1.1	0.0	98.70	98.25	99.83
MWDF3	GR259246	5023420	27.6KV_3P_Y1/0_AL	Overhead Line	38.2	530.0000		224.2	90.2	0.9	14.3	5.8	0.1	2.7	1.1	0.0	98.70	98.25	99.83
MWDF3	GR259247	5023421	27.6KV_3P_Y1/0_AL	Overhead Line	43.6	530.0000		224.2	90.2	0.8	14.3	5.8	0.1	2.7	1.1	0.0	98.69	98.25	99.83
MWDF3	GR259248	5136923	27.6KV_3P_Y1/0_AL	Overhead Line	32.2	530.0000		224.2	90.2	0.8	14.3	5.8	0.0	2.7	1.1	0.0	98.69	98.25	99.83
MWDF3	GR259249	11231455	27.6KV_3P_Y1/0_AL	Overhead Line	67.8	530.0000		224.2	90.2	0.8	14.3	5.8	0.0	2.7	1.1	0.0	98.69	98.25	99.83
MWDF3	GR259250	5136924	27.6KV_3P_Y1/0_AL	Overhead Line	72.4	530.0000		224.2	90.2	0.7	14.3	5.8	0.0	2.7	1.1	0.0	98.69	98.25	99.83
MWDF3	GR259251	5136925	27.6KV_3P_Y1/0_AL	Overhead Line	75.5	530.0000		224.2	90.2	0.6	14.3	5.8	0.0	2.7	1.1	0.0	98.68	98.25	99.83
MWDF3	GR259252	5136926	27.6KV_3P_Y1/0_AL	Overhead Line	75.6	530.0000		224.3	90.2	0.5	14.3	5.8	0.0	2.7	1.1	0.0	98.68	98.25	99.83
MWDF3	GR259253	5022931	27.6KV_3P_Y1/0_AL	Overhead Line	63.8	530.0000		224.3	90.2	0.5	14.3	5.8	0.0	2.7	1.1	0.0	98.68	98.25	99.83
MWDF3	GR259254	5135466	27.6KV_1P_Y1/0_AL	Overhead Line	6.7	230.0000		112.2			7.1			3.1			98.68		
MWDF3	GR259291	5136927	27.6KV_3P_Y1/0_AL	Overhead Line	62.4	530.0000		112.1	90.3	0.4	7.1	5.8	0.0	1.3	1.1	0.0	98.68	98.25	99.83
MWDF3	GR259292	5135202	27.6KV_3P_Y1/0_AL	Overhead Line	57.1	530.0000		112.1	90.3	0.3	7.1	5.8	0.0	1.3	1.1	0.0	98.68	98.25	99.83
MWDF3	GR259293	5135034	27.6KV_3P_Y1/0_AL	Overhead Line	39.6	530.0000		112.1	90.3	0.3	7.1	5.8	0.0	1.3	1.1	0.0	98.67	98.25	99.83
MWDF3	GR259294	5135036	27.6KV_3P_Y1/0_AL	Overhead Line	80.2	530.0000		112.1	90.3	0.2	7.1	5.8	0.0	1.3	1.1	0.0	98.67	98.26	99.83
MWDF3	GR259295	5135041	27.6KV_3P_Y1/0_AL	Overhead Line	71.3	530.0000		112.1	90.3	0.1	7.1	5.8	0.0	1.3	1.1	0.0	98.67	98.26	99.83
MWDF3	GR259296	5135204	27.6KV_3P_Y1/0_AL	Overhead Line	68.7	530.0000		112.2	90.3	0.1	7.1	5.8	0.0	1.3	1.1	0.0	98.67	98.26	99.83
MWDF3	GR259297	11310299	27.6KV_1P_Y3/0_ACSR	Overhead Line	18.6	530.0000			90.3			5.8			1.1			98.26	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR259298	11310342	27.6KV_1P_Y3/0_ACSR	Overhead Line	83.5	530.0000			90.3			5.8			1.1			98.25	
MWDF3	GR259299	11310359	27.6KV_1P_Y3/0_ACSR	Overhead Line	80.5	530.0000			90.3			5.8			1.1			98.25	
MWDF3	GR259300	11310365	27.6KV_1P_Y3/0_ACSR	Overhead Line	67.9	530.0000			90.3			5.8			1.1			98.25	
MWDF3	GR259301	11310370	27.6KV_1P_N3/0_ACSR	Overhead Line	60.3	530.0000			90.4			5.8			1.1			98.25	
MWDF3	GR259302	11310371	27.6KV_1P_Y3/0_ACSR	Overhead Line	73.8	530.0000			90.4			5.8			1.1			98.25	
MWDF3	GR259303	11310372	27.6KV_1P_Y3/0_ACSR	Overhead Line	55.0	530.0000			90.4			5.8			1.1			98.25	
MWDF3	GR259304	11310373	27.6KV_1P_Y3/0_ACSR	Overhead Line	56.0	530.0000			90.4			5.8			1.1			98.25	
MWDF3	GR259305	11310443	27.6KV_1P_Y3/0_ACSR	Overhead Line	76.4	530.0000			90.4			5.8			1.1			98.25	
MWDF3	GR259306	11310444	27.6KV_1P_Y3/0_ACSR	Overhead Line	80.2	530.0000			90.4			5.8			1.1			98.25	
MWDF3	GR259307	11310445	27.6KV_1P_Y3/0_ACSR	Overhead Line	77.1	530.0000			90.4			5.8			1.1			98.25	
MWDF3	GR259308	11310447	27.6KV_1P_Y3/0_ACSR	Overhead Line	84.9	530.0000			90.4			5.8			1.1			98.25	
MWDF3	GR259309	11360978	27.6KV_1P_Y3/0_ACSR	Overhead Line	44.8	530.0000			90.4			5.8			1.1			98.24	
MWDF3	GR259310	11311046	27.6KV_1P_Y1/0_ACSR	Overhead Line	78.0	530.0000			54.6			3.5			0.7			98.24	
MWDF3	GR259311	12965431	JUMPER	Overhead Line	0.0	600.0000			54.6			3.5			0.6			98.24	
MWDF3	GR259312	11311048	27.6KV_1P_N3/0_ACSR	Overhead Line	1.1	530.0000			0.0			0.0			0.0			98.24	
MWDF3	GR259313	12965491	27.6KV_1P_N1/0_AL	Overhead Line	68.5	530.0000			54.6			3.5			0.7			98.24	
MWDF3	GR259314	11311058	27.6KV_1P_Y1/0_AL	Overhead Line	71.1	230.0000			54.6			3.5			1.5			98.24	
MWDF3	GR259315	11231859	27.6KV_1P_Y1/0_AL	Overhead Line	73.0	230.0000			54.6			3.5			1.5			98.24	
MWDF3	GR259316	11231861	27.6KV_1P_Y1/0_AL	Overhead Line	5.5	230.0000			54.7			3.5			1.5			98.24	
MWDF3	GR259317	13115163	27.6KV_1P_Y1/0_AL	Overhead Line	75.4	230.0000			47.4			3.0			1.3			98.24	
MWDF3	GR259318	11231862	27.6KV_1P_Y1/0_AL	Overhead Line	68.4	230.0000			47.5			3.0			1.3			98.24	
MWDF3	GR259319	11231863	27.6KV_1P_Y1/0_AL	Overhead Line	51.1	230.0000			25.8			1.6			0.7			98.24	
MWDF3	GR259320	11231864	27.6KV_1P_Y1/0_AL	Overhead Line	72.0	230.0000			25.8			1.6			0.7			98.24	
MWDF3	GR259321	11231865	27.6KV_1P_Y1/0_AL	Overhead Line	72.1	230.0000			25.8			1.6			0.7			98.24	
MWDF3	GR259322	11231867	27.6KV_1P_Y1/0_AL	Overhead Line	59.4	230.0000			25.8			1.6			0.7			98.24	
MWDF3	GR259323	11231868	27.6KV_1P_Y1/0_AL	Overhead Line	59.0	230.0000			25.8			1.7			0.7			98.24	
MWDF3	GR259324	11231869	27.6KV_1P_Y1/0_AL	Overhead Line	59.9	230.0000			25.8			1.7			0.7			98.24	
MWDF3	GR259325	11231872	27.6KV_1P_Y1/0_AL	Overhead Line	85.5	230.0000			25.8			1.7			0.7			98.24	
MWDF3	GR259326	11231874	27.6KV_1P_Y1/0_AL	Overhead Line	85.9	230.0000			18.6			1.2			0.5			98.24	
MWDF3	GR259327	11231885	27.6KV_1P_Y1/0_AL	Overhead Line	82.6	230.0000			18.7			1.2			0.5			98.24	
MWDF3	GR259328	11231886	27.6KV_1P_Y1/0_AL	Overhead Line	85.5	230.0000			11.5			0.7			0.3			98.24	
MWDF3	GR259329	11231887	27.6KV_1P_Y1/0_AL	Overhead Line	72.4	230.0000			11.5			0.7			0.3			98.24	
MWDF3	GR259330	11231888	27.6KV_1P_Y1/0_AL	Overhead Line	85.1	230.0000			4.3			0.3			0.1			98.24	
MWDF3	GR259331	11231890	27.6KV_1P_Y1/0_AL	Overhead Line	73.3	230.0000			4.3			0.3			0.1			98.24	
MWDF3	GR259332	11231891	27.6KV_1P_Y1/0_AL	Overhead Line	75.5	230.0000			4.3			0.3			0.1			98.24	
MWDF3	GR259333	11231892	27.6KV_1P_Y1/0_AL	Overhead Line	83.3	230.0000			4.3			0.3			0.1			98.24	
MWDF3	GR259334	11231893	27.6KV_1P_Y1/0_AL	Overhead Line	74.3	230.0000			4.3			0.3			0.1			98.24	
MWDF3	GR259335	11231894	27.6KV_1P_Y1/0_AL	Overhead Line	55.1	230.0000			4.3			0.3			0.1			98.24	
MWDF3	GR259336	11231895	27.6KV_1P_Y1/0_AL	Overhead Line	51.2	230.0000			4.3			0.3			0.1			98.24	
MWDF3	GR259343	11231879	27.6KV_1P_N1/0_AL	Overhead Line	3.9	530.0000			7.2			0.5			0.1			98.24	
MWDF3	GR259351	12965465	27.6KV_1P_N3/0_ACSR	Overhead Line	1.2	530.0000			0.0			0.0			0.0			98.24	
MWDF3	GR259352	13173942	27.6KV_1P_Y336_AL	Overhead Line	6.0	530.0000			35.8			2.3			0.4			98.24	
MWDF3	GR259353	13574217	27.6KV_1P_Y336_AL	Overhead Line	55.2	530.0000			35.8			2.3			0.4			98.24	
MWDF3	GR259354	13173953	27.6KV_1P_Y336_AL	Overhead Line	58.0	530.0000			28.6			1.8			0.3			98.24	
MWDF3	GR259355	13173954	27.6KV_1P_Y336_AL	Overhead Line	57.0	530.0000			28.6			1.8			0.3			98.24	
MWDF3	GR259356	13173955	27.6KV_1P_Y336_AL	Overhead Line	89.2	530.0000			28.6			1.8			0.3			98.24	
MWDF3	GR259357	13173956	27.6KV_1P_Y336_AL	Overhead Line	52.2	530.0000			28.6			1.8			0.3			98.24	
MWDF3	GR259358	13173958	27.6KV_1P_Y336_AL	Overhead Line	71.9	530.0000			28.7			1.8			0.3			98.24	
MWDF3	GR259359	13173959	27.6KV_1P_Y336_AL	Overhead Line	73.6	530.0000			28.7			1.8			0.3			98.24	
MWDF3	GR259360	13173960	27.6KV_1P_Y336_AL	Overhead Line	72.9	530.0000			28.7			1.8			0.3			98.24	
MWDF3	GR259361	13173961	27.6KV_1P_Y336_AL	Overhead Line	76.2	530.0000			28.7			1.8			0.3			98.24	
MWDF3	GR259362	13173962	27.6KV_1P_Y336_AL	Overhead Line	72.7	530.0000			21.5			1.4			0.3			98.24	
MWDF3	GR259363	13173963	27.6KV_1P_Y336_AL	Overhead Line	72.6	530.0000			21.5			1.4			0.3			98.24	
MWDF3	GR259364	13173964	27.6KV_1P_Y336_AL	Overhead Line	75.1	530.0000			21.5			1.4			0.3			98.24	
MWDF3	GR259365	13173965	27.6KV_1P_Y336_AL	Overhead Line	79.8	530.0000			14.3			0.9			0.2			98.24	
MWDF3	GR259366	13173966	27.6KV_1P_Y336_AL	Overhead Line	70.4	530.0000			14.3			0.9			0.2			98.24	
MWDF3	GR259367	13173967	27.6KV_1P_Y336_AL	Overhead Line	68.4	530.0000			14.3			0.9			0.2			98.24	
MWDF3	GR259368	13173968	27.6KV_1P_Y336_AL	Overhead Line	66.6	530.0000			14.3			0.9			0.2			98.24	
MWDF3	GR259369	13173969	27.6KV_1P_Y336_AL	Overhead Line	60.8	530.0000			14.3			0.9			0.2			98.24	
MWDF3	GR259370	13173972	27.6KV_1P_Y336_AL	Overhead Line	86.8	530.0000			14.4			0.9			0.2			98.24	
MWDF3	GR259371	13173974	27.6KV_1P_Y336_AL	Overhead Line	67.4	530.0000			7.2			0.5			0.1			98.24	
MWDF3	GR259372	13173976	27.6KV_1P_Y336_AL	Overhead Line	73.5	530.0000			7.2			0.5			0.1			98.24	
MWDF3	GR259373	13171845	27.6KV_1P_Y336_AL	Overhead Line	23.9	530.0000			7.2			0.5			0.1			98.24	
MWDF3	GR259374	13171849	27.6KV_1P_Y336_AL	Overhead Line	21.8	530.0000			7.2			0.5			0.1			98.24	
MWDF3	GR259375	13171850	27.6KV_1P_Y336_AL	Overhead Line	26.4	530.0000			7.2			0.5			0.1			98.24	
MWDF3	GR259376	13171852	27.6KV_1P_Y336_AL	Overhead Line	29.9	530.0000			7.2			0.5			0.1			98.24	
MWDF3	GR259379	13173978	27.6KV_1P_Y336_AL	Overhead Line	73.3	530.0000			0.1			0.0			0.0			98.24	
MWDF3	GR259388	13115076	27.6KV_3P_Y1/0_AL	Overhead Line	2.2	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.67	98.26	99.83
MWDF3	GR259389	5137110	27.6KV_1P_Y1/0_AL	Overhead Line	7.4	230.0000		112.2			7.1			3.1			98.67		
MWDF3	GR259428	5024112	27.6KV_1P_Y1/0_AL	Overhead Line	4.0	230.0000			14.4			0.9			0.4			98.24	
MWDF3	GR259429	11233442	27.6KV_1P_Y1/0_AL	Overhead Line	20.8	230.0000			14.4			0.9			0.4			98.24	
MWDF3	GR259430	11245623	27.6KV_1P_Y1/0_AL	Overhead Line	66.2	230.0000			14.4			0.9			0.4			98.24	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR259433	5134974	27.6KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000		37.4			2.4			1.0			98.73		
MWDF3	GR259449	5024911	27.6KV_3P_Y1/0_AL	Overhead Line	1.4	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.87	98.40	99.75
MWDF3	GR259462	5023696	27.6KV_1P_Y1/0_AL	Overhead Line	4.3	230.0000		62.2			3.9			1.7			99.05		
MWDF3	GR259463	11232794	27.6KV_1P_Y1/0_AL	Overhead Line	103.4	230.0000		62.2			3.9			1.7			99.05		
MWDF3	GR259464	5025094	27.6KV_1P_Y1/0_AL	Overhead Line	86.1	230.0000		43.5			2.8			1.2			99.05		
MWDF3	GR259465	5025095	27.6KV_1P_Y1/0_AL	Overhead Line	86.7	230.0000		37.3			2.4			1.0			99.05		
MWDF3	GR259466	5025096	27.6KV_1P_Y1/0_AL	Overhead Line	69.2	230.0000		18.6			1.2			0.5			99.05		
MWDF3	GR259467	5025097	27.6KV_1P_Y1/0_AL	Overhead Line	66.9	230.0000		18.7			1.2			0.5			99.05		
MWDF3	GR259468	5025098	27.6KV_1P_Y1/0_AL	Overhead Line	66.7	230.0000		18.7			1.2			0.5			99.05		
MWDF3	GR259469	5025099	27.6KV_1P_Y1/0_AL	Overhead Line	25.9	230.0000		12.5			0.8			0.3			99.05		
MWDF3	GR259472	5025100	27.6KV_1P_Y1/0_AL	Overhead Line	32.9	230.0000		6.2			0.4			0.2			99.05		
MWDF3	GR259485	5132920	27.6KV_1P_Y3/0_AL	Overhead Line	2.7	530.0000		56.1			3.5			0.7			99.14		
MWDF3	GR259509	5132740	27.6KV_1P_Y3/0_AL	Overhead Line	3.0	530.0000		128.9			8.2			1.5			99.21		
MWDF3	GR259567	11232435	27.6KV_3P_Y3/0_AL	Overhead Line	1.2	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.23	98.90	99.63
MWDF3	GR259570	5135094	27.6KV_1P_Y1/0_AL	Overhead Line	3.3	230.0000			4.3			0.3			0.1			99.05	
MWDF3	GR259571	5138188	27.6KV_1P_Y1/0_AL	Overhead Line	76.2	230.0000			4.3			0.3			0.1			99.05	
MWDF3	GR259575	5135095	27.6KV_1P_Y1/0_AL	Overhead Line	3.3	230.0000				4.7			0.3			0.1			99.62
MWDF3	GR259576	5135461	27.6KV_1P_Y1/0_AL	Overhead Line	57.4	230.0000				4.7			0.3			0.1			99.62
MWDF3	GR259581	11375359	27.6KV_3P_N1/0_AL	Overhead Line	7.5	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.44	99.20	99.62
MWDF3	GR259582	11375367	27.6KV_3P_N1/0_AL	Overhead Line	8.3	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.44	99.21	99.62
MWDF3	GR259583	11370695	27.6KV_3P_Y3/0_AL	Overhead Line	53.7	530.0000		56.1	43.3	158.0	3.5	2.7	10.0	0.7	0.5	1.9	99.45	99.22	99.62
MWDF3	GR259584	11370623	27.6KV_3P_N556_AL	Overhead Line	2.8	730.0000		56.1	43.3	158.1	3.5	2.7	10.0	0.5	0.4	1.4	99.45	99.22	99.62
MWDF3	GR259638	5102890	27.6KV_3P_Y3/0_AL	Overhead Line	2.5	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.45	99.22	99.62
MWDF3	GR259639	5132488	27.6KV_3P_Y556_ACSR	Overhead Line	49.9	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.48	99.29	99.66
MWDF3	GR259640	5134834	27.6KV_3P_Y556_ACSR	Overhead Line	2.4	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.48	99.29	99.66
MWDF3	GR259641	11351757	27.6KV_3P_Y556_ACSR	Overhead Line	2.7	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.48	99.29	99.66
MWDF3	GR259642	9031331	27.6KV_3P_Y556_ACSR	Overhead Line	9.8	730.0000		74.8	43.3	245.1	4.7	2.7	15.4	0.6	0.4	2.1	99.54	99.37	99.65
MWDF3	GR259726	11658590	27.6KV_3P_Y556_ACSR	Overhead Line	7.3	730.0000		1743.3	1954.4	2100.7	109.8	123.3	132.3	15.0	16.9	18.1	99.61	99.49	99.67
MWDF3	GR259829	13136395	27.6KV_3P_N556_ACSR	Overhead Line	3.4	730.0000		148.4	148.4	148.4	9.3	9.4	9.3	1.3	1.3	1.3	99.68	99.59	99.73
MWDF3	GR257117	TP9154-12986777	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			99.02		
MWDF3	GR257122	TP9152-12986782	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			99.01		
MWDF3	GR257127	TP9153-12986779	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			99.00		
MWDF3	GR257132	TP6137-11288166	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.00		
MWDF3	GR257138	TP2601-1691963	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			99.00		
MWDF3	GR257143	002604-1650151	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.99		
MWDF3	GR257148	TP2605-1691880	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.99		
MWDF3	GR257153	TP2606-1693603	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.99		
MWDF3	GR257162	TP6138-11285462	27.6KV_347V/600V_500_3P	Two-Winding Transformer	0.0		500.00	75.6	81.1	84.9	4.8	5.1	5.3	44.7	47.9	50.2	98.15	98.03	98.17
MWDF3	GR257181	TP6960-11438041	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.01		
MWDF3	GR257187	TP2608-1694446	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.01		
MWDF3	GR257192	TP2607-1692983	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			99.01		
MWDF3	GR257204	TP13500-18145992	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	41.6			2.6			24.8			99.01		
MWDF3	GR257209	TP13501-18145994	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	41.6			2.6			24.8			99.01		
MWDF3	GR257216	TP3076-1693812	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			99.01		
MWDF3	GR257222	TP3075-1694352	27.6KV_120V/208V_500_3P	Two-Winding Transformer	0.0		500.00	51.3	42.9	48.3	3.2	2.7	3.0	30.6	25.6	28.8	98.89	98.98	98.82
MWDF3	GR257231	X06901-1648374	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.24
MWDF3	GR257233	X06899-1692054	27.6KV_UNKNOWN_25_3P	Two-Winding Transformer	0.0		25.00	2.1	2.4	2.6	0.1	0.2	0.2	8.3	9.6	10.5	99.46	99.40	99.59
MWDF3	GR257238	TP13502-18145997	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	41.6			2.6			24.8			99.01		
MWDF3	GR257349	TP8913-13181228	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.98
MWDF3	GR257361	X45905-15514188	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.5			0.2			24.8			98.99		
MWDF3	GR257363	X45914-13146955	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			99.15		
MWDF3	GR257368	TP13572-18217949	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			98.98		
MWDF3	GR257373	TP13573-18217948	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	41.6			2.6			24.8			98.97		
MWDF3	GR257378	TP13574-18217934	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			98.96		
MWDF3	GR257383	TP13575-18217931	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	41.6			2.6			24.8			98.96		
MWDF3	GR257388	TP13576-18217927	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.96		
MWDF3	GR257393	TP13577-18217906	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			98.95		
MWDF3	GR257398	TP13578-18217905	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.95		
MWDF3	GR257403	TP13579-18217903	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			98.95		
MWDF3	GR257411	TP13570-18217865	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.98		
MWDF3	GR257416	TP13571-18217867	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			98.98		
MWDF3	GR257421	TP13585-18217868	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			98.96		
MWDF3	GR257426	TP13584-18217869	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			98.95		
MWDF3	GR257431	TP13583-18217870	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			98.95		
MWDF3	GR257436	TP13582-18217872	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			98.95		
MWDF3	GR257441	TP13581-18217873	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			98.94		
MWDF3	GR257446	TP13580-18217876	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			98.94		
MWDF3	GR257449	X45992-13149114	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			99.19		
MWDF3	GR257451	X45746-13150253	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			99.21		
MWDF3	GR257457	TP12287-16458776	27.6KV_347V/600V_500_3P	Two-Winding Transformer	0.0		500.00	30.6	30.6	30.6	1.9	1.9	1.9	18.2	18.2	18.2	98.90	98.80	98.99
MWDF3	GR257459	X44120-16471557	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.5			0.2			24.8			99.07		
MWDF3	GR257464	TP10558-15439110	27.6KV_347V/600V_500_3P	Two-Winding Transformer	0.0		500.00	37.0	37.0	37.0	2.3	2.3	2.3	22.0	22.0	22.0	98.78	98.67	98.86

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR257467	X25945-11544892	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.25
MWDF3	GR257506	X39523-1650804	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.02
MWDF3	GR257523	X46515-1650907	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.23
MWDF3	GR257525	X42550-11520600	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.02
MWDF3	GR257544	TP7123-1648074	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.02
MWDF3	GR257549	000080-1648077	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.02
MWDF3	GR257554	TP10433-1648076	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.01
MWDF3	GR257559	TP10426-1648075	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.01
MWDF3	GR257561	X40225-1648053	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.02
MWDF3	GR257563	X39843-1648052	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			11.9			0.7			31.4			99.03
MWDF3	GR257565	X40227-1648051	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			11.9			0.7			31.4			99.03
MWDF3	GR257567	X40238-1648050	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.03
MWDF3	GR257569	X40231-1648049	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.03
MWDF3	GR257586	X40162-1648707	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			98.21	
MWDF3	GR257588	X07007-1649420	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			98.21	
MWDF3	GR257596	TP7882-1648653	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.09
MWDF3	GR257601	TP7881-1648652	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.08
MWDF3	GR257606	TP7880-1648651	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.08
MWDF3	GR257611	TP7879-1648650	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.07
MWDF3	GR257616	TP7106-1648649	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.06
MWDF3	GR257621	TP7878-1649505	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.05
MWDF3	GR257626	TP7877-1649506	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.04
MWDF3	GR257631	TP7876-1649507	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.03
MWDF3	GR257636	TP7118-1649508	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.03
MWDF3	GR257641	TP7875-1649509	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.03
MWDF3	GR257646	TP7874-1649510	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.03
MWDF3	GR257651	TP7113-1649011	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.14
MWDF3	GR257659	TP7136-1675795	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.10
MWDF3	GR257664	001581-1675796	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.09
MWDF3	GR257669	001582-1675797	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.09
MWDF3	GR257674	001583-1649423	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.08
MWDF3	GR257679	001584-1649424	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.08
MWDF3	GR257684	TP7137-1649425	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.08
MWDF3	GR257690	TP7105-1648643	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.90	
MWDF3	GR257695	TP7863-1648644	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.89	
MWDF3	GR257700	TP7862-1648646	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.89	
MWDF3	GR257705	TP7861-1648647	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.89	
MWDF3	GR257710	TP7860-1648648	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.88	
MWDF3	GR257716	TP7117-1649504	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.88	
MWDF3	GR257732	X37554-1648268	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			98.07	
MWDF3	GR257743	TP7377-11554857	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.40		
MWDF3	GR257748	TP7378-11554866	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.40		
MWDF3	GR257753	TP7379-11554871	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.40		
MWDF3	GR257762	X50445-16384183	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.33
MWDF3	GR257764	X07150-1649937	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		4.3			0.3			28.7			97.88	
MWDF3	GR257781	X26631-1650979	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			98.02	
MWDF3	GR257795	TP7108-1648692	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.79	
MWDF3	GR257800	000735-1648691	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.78	
MWDF3	GR257805	000734-1648690	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.78	
MWDF3	GR257810	000733-1648689	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.78	
MWDF3	GR257819	TP5738-11525738	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.12
MWDF3	GR257825	TP5740-11525740	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.11
MWDF3	GR257846	X40160-1648394	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.30
MWDF3	GR257862	X40234-1648095	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.08
MWDF3	GR257864	X40172-1648094	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.08
MWDF3	GR257866	X40167-1648093	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			11.9			0.7			31.4			99.09
MWDF3	GR257868	X40174-1648092	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			11.9			0.7			31.4			99.09
MWDF3	GR257870	X40156-1648091	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			11.9			0.7			31.4			99.09
MWDF3	GR257872	X40159-1648090	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.09
MWDF3	GR257874	X40166-1648089	27.6KV_120V/240V_37_1P	Two-Winding Transformer	0.0		37.00			11.7			0.7			31.4			99.09
MWDF3	GR257876	X40170-1648088	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.09
MWDF3	GR257878	X40169-1648087	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			11.9			0.7			31.4			99.10
MWDF3	GR257880	X40163-1648086	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			11.9			0.7			31.4			99.10
MWDF3	GR257882	X40157-1648085	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.10
MWDF3	GR257884	X40164-1648084	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.11
MWDF3	GR257886	X40168-1648083	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.11
MWDF3	GR257894	TP7119-1649530	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.78	
MWDF3	GR257899	001704-1649531	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.78	
MWDF3	GR257904	001705-1675808	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.77	
MWDF3	GR257909	001706-1675809	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.77	
MWDF3	GR257914	001277-1675766	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.76	
MWDF3	GR257919	001276-1675765	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.76	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR257924	TP7114-1675767	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.76	
MWDF3	GR257951	X40201-1649408	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		10.8			0.7			28.7			97.77	
MWDF3	GR257953	X40200-1649407	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.77	
MWDF3	GR257955	X40165-1649406	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.77	
MWDF3	GR257957	X40229-1649405	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.77	
MWDF3	GR257959	X40171-1649404	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		10.8			0.7			28.7			97.77	
MWDF3	GR257961	X40173-1649403	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		10.8			0.7			28.7			97.77	
MWDF3	GR257963	X39849-1649402	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		10.8			0.7			28.7			97.78	
MWDF3	GR257965	X39844-1649401	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		10.8			0.7			28.7			97.78	
MWDF3	GR257967	X40228-1649400	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		10.8			0.7			28.7			97.78	
MWDF3	GR257969	X40230-1649399	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		10.8			0.7			28.7			97.78	
MWDF3	GR257971	X39846-1649398	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.78	
MWDF3	GR257973	X39838-1649397	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		10.8			0.7			28.7			97.78	
MWDF3	GR257980	001984-1649767	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.98	
MWDF3	GR257996	TP3044-11432573	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.21		
MWDF3	GR258001	TP3043-11432571	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.21		
MWDF3	GR258015	TP3042-11432569	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.20		
MWDF3	GR258028	000503-1648473	27.6KV_120V/240V_3_1P	Two-Winding Transformer	0.0		3.00	0.7			0.0			24.8			98.20		
MWDF3	GR258030	X07081-18044754	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.36		
MWDF3	GR258032	X07076-1650995	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.37		
MWDF3	GR258034	X07074-1650496	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00	3.7			0.2			24.8			98.20		
MWDF3	GR258045	X40114-1650626	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.36		
MWDF3	GR258054	X40102-1648771	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.19		
MWDF3	GR258066	X40113-1648275	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.35		
MWDF3	GR258083	X40116-1648271	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.34		
MWDF3	GR258092	000012-1648012	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.34		
MWDF3	GR258096	X40117-1648862	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50	9.3			0.6			24.8			98.17		
MWDF3	GR258106	X40122-1648276	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.34		
MWDF3	GR258108	X2021-1674418	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.34		
MWDF3	GR258135	X40100-1650817	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50	9.3			0.6			24.8			98.16		
MWDF3	GR258140	000585-5025470	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.33		
MWDF3	GR258142	X07835-1648055	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00	3.7			0.2			24.8			98.16		
MWDF3	GR258144	X07834-1649455	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.5			0.2			24.8			98.16		
MWDF3	GR258146	X07827-1648764	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50	9.3			0.6			24.8			98.17		
MWDF3	GR258149	X07823-19020888	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.33		
MWDF3	GR258151	X07822-1649599	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.33		
MWDF3	GR258156	X40118-1648520	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00	3.7			0.2			24.8			98.17		
MWDF3	GR258158	X07818-1650887	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00	3.7			0.2			24.8			98.17		
MWDF3	GR258160	X07814-1650645	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.17		
MWDF3	GR258162	X07812-1648003	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.34		
MWDF3	GR258164	X07810-1650943	27.6KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00	1.2			0.1			24.8			98.18		
MWDF3	GR258166	X07808-1648277	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.34		
MWDF3	GR258168	X07803-1648471	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.35		
MWDF3	GR258170	X07800-1675912	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.35		
MWDF3	GR258172	X07799-1650563	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.35		
MWDF3	GR258174	X07798-1649928	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.36		
MWDF3	GR258179	X40115-1650796	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.36		
MWDF3	GR258196	X58873-18200611	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.35		
MWDF3	GR258230	001505-1649356	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.28
MWDF3	GR258253	TP5397-1650536	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.16		
MWDF3	GR258261	X37495-1650794	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.28
MWDF3	GR258269	X40109-1648296	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.33		
MWDF3	GR258281	X40103-1650783	27.6KV_120V/240V_37_1P	Two-Winding Transformer	0.0		37.00	9.2			0.6			24.8			98.16		
MWDF3	GR258286	X37481-1650489	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.99	
MWDF3	GR258295	X40124-1649417	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.32		
MWDF3	GR258302	X40106-1649911	27.6KV_120V/240V_37_1P	Two-Winding Transformer	0.0		37.00			11.7			0.7			31.4			99.08
MWDF3	GR258312	X39598-1649343	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.32		
MWDF3	GR258322	X39596-1649572	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.29
MWDF3	GR258351	X40111-11539038	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.98	
MWDF3	GR258355	X38754-13083327	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.98	
MWDF3	GR258357	X45740-11529823	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.79	
MWDF3	GR258362	X07644-1649938	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.79	
MWDF3	GR258364	X07642-1649484	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.29
MWDF3	GR258366	X07641-1648696	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.98	
MWDF3	GR258368	X07638-1648172	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.98	
MWDF3	GR258370	X07636-1649897	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.79	
MWDF3	GR258372	X07635-1650492	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.29
MWDF3	GR258374	X07632-1649013	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.98	
MWDF3	GR258376	X07630-1648223	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.32		
MWDF3	GR258378	X07629-1650826	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.99	
MWDF3	GR258380	X07627-1648701	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.32		
MWDF3	GR258382	X07622-1648173	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.29

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR258384	X07620-1650809	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.28
MWDF3	GR258386	X59546-17243530	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.33		
MWDF3	GR258391	X37492-1648174	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.28
MWDF3	GR258393	X07614-1648081	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.28
MWDF3	GR258395	X07610-1649348	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00			4.7			0.3			31.4			99.08
MWDF3	GR258397	X07607-1648298	27.6KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00			1.6			0.1			31.4			99.08
MWDF3	GR258399	X07604-1648176	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		2.9			0.2			28.7			97.81	
MWDF3	GR258401	X07602-1648450	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		10.8			0.7			28.7			97.81	
MWDF3	GR258406	X40222-1650801	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00			4.7			0.3			31.4			99.08
MWDF3	GR258408	X07598-1648177	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.33		
MWDF3	GR258410	X07670-1648014	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		4.3			0.3			28.7			97.82	
MWDF3	GR258412	X07671-1650800	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			98.01	
MWDF3	GR258414	X07673-1649983	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.29
MWDF3	GR258416	X07674-1650044	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			98.01	
MWDF3	GR258418	X07675-1675869	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			98.02	
MWDF3	GR258420	X07677-1675698	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.34		
MWDF3	GR258426	X42640-13488970	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.33		
MWDF3	GR258451	UNKNOWN-17996540	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.15		
MWDF3	GR258459	X41416-11463426	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.32		
MWDF3	GR258462	X07584-1675750	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.32		
MWDF3	GR258464	X07583-1649054	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.32		
MWDF3	GR258466	X07582-1649454	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.32		
MWDF3	GR258468	X07580-5025387	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.32		
MWDF3	GR258470	X07577-1649074	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.15		
MWDF3	GR258472	X07575-1649494	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.16		
MWDF3	GR258474	X07574-1649477	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.32		
MWDF3	GR258476	X07572-1649303	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.32		
MWDF3	GR258478	X07571-1649429	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.32		
MWDF3	GR258481	X07569-1648057	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.33		
MWDF3	GR258492	005582-1650853	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.16		
MWDF3	GR258497	002167-1675854	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.17		
MWDF3	GR258499	X07562-1675858	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.33		
MWDF3	GR258506	X07781-1649991	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.34		
MWDF3	GR258508	X07779-1649165	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.34		
MWDF3	GR258513	C.1-1675696	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00	3.7			0.2			24.8			98.18		
MWDF3	GR258515	X07778-1648849	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.35		
MWDF3	GR258521	005479-1650838	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.35		
MWDF3	GR258523	X07770-1648337	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.36		
MWDF3	GR258525	X07766-1648314	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.36		
MWDF3	GR258527	X07763-1648645	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.37		
MWDF3	GR258529	X07067-1648385	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		10.8			0.7			28.7			97.81	
MWDF3	GR258531	X07060-1650424	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.12
MWDF3	GR258536	TP7121-1650112	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.78	
MWDF3	GR258541	002558-1650113	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.77	
MWDF3	GR258546	002559-1650114	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.76	
MWDF3	GR258551	002560-1650115	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.76	
MWDF3	GR258556	TP7122-1650116	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.75	
MWDF3	GR258561	002562-1650117	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.74	
MWDF3	GR258566	001280-1649181	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.73	
MWDF3	GR258571	001281-1675769	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.73	
MWDF3	GR258576	001279-1675768	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.73	
MWDF3	GR258583	TP5739-11456565	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.11
MWDF3	GR258592	001445-1649301	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.99	
MWDF3	GR258597	TP7120-1650065	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.80	
MWDF3	GR258600	X07037-1649302	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.48		
MWDF3	GR258602	X07034-1648899	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.49		
MWDF3	GR258604	X07032-11274768	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.50		
MWDF3	GR258606	X07028-1649704	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.52		
MWDF3	GR258608	X07022-1675856	27.6KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00	1.2			0.1			24.8			98.39		
MWDF3	GR258650	TP2268-1677388	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.58	
MWDF3	GR258655	TP2269-1677680	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.57	
MWDF3	GR258661	TP2270-1677721	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.56	
MWDF3	GR258666	TP2271-1680630	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.56	
MWDF3	GR258672	TP2272-1678659	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.55	
MWDF3	GR258677	TP2273-1679999	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.55	
MWDF3	GR258683	TP2274-1677801	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.54	
MWDF3	GR258689	TP2275-1680643	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.54	
MWDF3	GR258695	X17842-1648795	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.78	
MWDF3	GR258704	X40095-1648774	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.76	
MWDF3	GR258713	X40087-1648424	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.73	
MWDF3	GR258719	TP9699-13173095	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.52	
MWDF3	GR258724	TP9700-13173105	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.51	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR258729	TP2281-1698460	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.50	
MWDF3	GR258734	TP2280-1698459	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.49	
MWDF3	GR258739	TP2282-1698461	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.49	
MWDF3	GR258745	TP2279-1698458	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.47	
MWDF3	GR258750	TP2278-1698457	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		28.9			1.8			28.7			97.47	
MWDF3	GR258755	TP2277-1698421	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.47	
MWDF3	GR258760	TP2276-1698456	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.47	
MWDF3	GR258774	TBD-19063679	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.68	
MWDF3	GR258784	X40091-1648776	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.62	
MWDF3	GR258790	TP10908-15466974	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.41	
MWDF3	GR258795	TP10909-15466991	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.40	
MWDF3	GR258800	TP10910-15466994	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.40	
MWDF3	GR258805	TP10911-15467000	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.40	
MWDF3	GR258812	TP10916-15466980	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.40	
MWDF3	GR258817	TP10915-15466988	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.39	
MWDF3	GR258822	TP10914-15467019	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.39	
MWDF3	GR258827	TP10913-15467015	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.39	
MWDF3	GR258832	TP10912-15467003	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.39	
MWDF3	GR258847	X40086-1648777	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		4.3			0.3			28.7			97.35	
MWDF3	GR258870	003769-1675913	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.45	
MWDF3	GR258881	X40077-1650858	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.42	
MWDF3	GR258886	X07732-1648705	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.42	
MWDF3	GR258896	X40088-1648763	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.40	
MWDF3	GR258906	X40092-1650807	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.39	
MWDF3	GR258962	X70201-18203009	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.28	
MWDF3	GR258964	UNKNOWN-15586892	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.28	
MWDF3	GR258966	UNKNOWN-15586813	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.28	
MWDF3	GR258968	UNKNOWN-15586717	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.09	
MWDF3	GR258970	UNKNOWN-15586680	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.09	
MWDF3	GR258978	X58165-15586630	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.09	
MWDF3	GR258980	X58167-15586613	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.09	
MWDF3	GR258982	X58169-15586582	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.28	
MWDF3	GR258984	UNKNOWN-15586531	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.29	
MWDF3	GR258986	UNKNOWN-15582563	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.10	
MWDF3	GR258988	UNKNOWN-15582541	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.29	
MWDF3	GR258990	UNKNOWN-15582525	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.29	
MWDF3	GR258992	UNKNOWN-15582504	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.10	
MWDF3	GR258994	UNKNOWN-15582265	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.30	
MWDF3	GR258996	UNKNOWN-15582176	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.30	
MWDF3	GR258998	X40107-1648531	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.11	
MWDF3	GR259000	X40078-1648528	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.31	
MWDF3	GR259002	X40204-1648688	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		10.8			0.7			28.7			97.12	
MWDF3	GR259004	X40219-1648527	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.32	
MWDF3	GR259006	X40206-1648526	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.32	
MWDF3	GR259008	X40209-1648530	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.33	
MWDF3	GR259010	X40220-1648525	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.33	
MWDF3	GR259012	X40208-1648524	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.14	
MWDF3	GR259014	X40119-1649073	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.34	
MWDF3	GR259016	X40097-1648521	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.15	
MWDF3	GR259018	X40093-1648519	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		10.8			0.7			28.7			97.17	
MWDF3	GR259020	X40076-1675716	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.36	
MWDF3	GR259022	X66160-1675715	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.38	
MWDF3	GR259031	X07720-1649482	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.37	
MWDF3	GR259039	X60890-13177876	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.37	
MWDF3	GR259044	X07713-1650066	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.36	
MWDF3	GR259061	X40221-1648552	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.36	
MWDF3	GR259066	000037-1648035	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.36	
MWDF3	GR259077	X40212-1648553	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.35	
MWDF3	GR259083	X40123-1650695	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.35	
MWDF3	GR259099	X55665-1650706	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.35	
MWDF3	GR259101	X07683-1650423	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		2.9			0.2			28.7			97.16	
MWDF3	GR259103	X07688-1650906	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		4.3			0.3			28.7			97.16	
MWDF3	GR259112	X34784-1695239	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.35	
MWDF3	GR259115	X26628-11274667	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.35	
MWDF3	GR259117	X07695-1650911	27.6KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00		1.4			0.1			28.7			97.16	
MWDF3	GR259119	X07709-1648078	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.36	
MWDF3	GR259123	002610-1650154	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.17	
MWDF3	GR259127	X40217-1650860	27.6KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00		1.4			0.1			28.7			97.18	
MWDF3	GR259131	X40121-1650611	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		2.9			0.2			28.7			97.18	
MWDF3	GR259133	X07737-1650821	27.6KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00		1.4			0.1			28.7			97.24	
MWDF3	GR259135	X07738-1650825	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		2.9			0.2			28.7			97.24	
MWDF3	GR259153	001790-1649597	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.51	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR259155	X07752-1650827	27.6KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00		1.4			0.1			28.7			97.32	
MWDF3	GR259157	X07086-1649560	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		4.3			0.3			28.7			97.33	
MWDF3	GR259159	X07091-1649376	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.54	
MWDF3	GR259165	X40075-1648791	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.55	
MWDF3	GR259167	X07097-1649166	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.57	
MWDF3	GR259173	003772-1650577	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.59	
MWDF3	GR259175	X38286-15427973	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.60	
MWDF3	GR259177	X07108-1649717	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.67	
MWDF3	GR259179	X07113-1649919	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.72	
MWDF3	GR259181	X07117-1650855	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.75	
MWDF3	GR259183	X07118-1698139	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.56	
MWDF3	GR259185	X07120-1648778	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.77	
MWDF3	GR259187	X07122-1650835	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.79	
MWDF3	GR259192	000834-1648784	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.82	
MWDF3	GR259194	X07129-1648386	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.85	
MWDF3	GR259196	X07130-1649647	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		10.8			0.7			28.7			97.66	
MWDF3	GR259212	TP7110-1649000	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.22
MWDF3	GR259220	TP7099-1675702	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.23		
MWDF3	GR259225	TP3048-11448915	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.23		
MWDF3	GR259230	TP7100-1675703	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.23		
MWDF3	GR259257	TP7103-1648578	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.19		
MWDF3	GR259262	TP7854-1648579	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.19		
MWDF3	GR259267	TP7853-1648580	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.18		
MWDF3	GR259273	TP7852-1648581	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.18		
MWDF3	GR259278	TP7104-1648584	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.18		
MWDF3	GR259284	TP7850-1648583	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.18		
MWDF3	GR259289	TP7851-1648582	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.18		
MWDF3	GR259337	X08440-1649156	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		4.3			0.3			28.7			97.68	
MWDF3	GR259339	X08447-1648838	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.87	
MWDF3	GR259341	X08449-1650714	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.87	
MWDF3	GR259345	X26465-1649409	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.87	
MWDF3	GR259347	X08458-1649731	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.68	
MWDF3	GR259349	X08460-13115161	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.88	
MWDF3	GR259377	X46184-13574985	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.88	
MWDF3	GR259380	X46167-13169988	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.88	
MWDF3	GR259382	X46161-13169968	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.88	
MWDF3	GR259384	X46158-13169964	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.88	
MWDF3	GR259386	X46150-13169682	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.88	
MWDF3	GR259392	TP7115-1649223	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.18		
MWDF3	GR259397	TP7845-1649224	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.18		
MWDF3	GR259402	TP7846-1649225	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.17		
MWDF3	GR259407	TP7847-1649226	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.17		
MWDF3	GR259412	TP7116-1649227	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.17		
MWDF3	GR259417	TP7848-1649228	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.17		
MWDF3	GR259422	TP7849-1649229	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.17		
MWDF3	GR259426	X08020-1650491	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			97.88	
MWDF3	GR259431	X40082-1648991	27.6KV_UNKNOWN_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.11	
MWDF3	GR259436	TP7102-1675705	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.24		
MWDF3	GR259442	TP7101-1675704	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.24		
MWDF3	GR259445	X07133-1649557	27.6KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00		1.4			0.1			28.7			97.69	
MWDF3	GR259447	X07142-1649184	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.35		
MWDF3	GR259450	X07148-1649244	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			98.05	
MWDF3	GR259452	X07017-1675860	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		4.3			0.3			28.7			97.89	
MWDF3	GR259454	X07012-1648769	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.31
MWDF3	GR259456	X07009-1649503	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			98.19	
MWDF3	GR259458	X07004-1650561	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			98.25	
MWDF3	GR259460	X07003-1648577	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			98.27	
MWDF3	GR259470	X40152-1648006	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.57		
MWDF3	GR259473	X40151-1648009	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.73		
MWDF3	GR259475	X40153-1648005	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.57		
MWDF3	GR259477	X40155-1648416	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.2			0.4			24.8			98.73		
MWDF3	GR259479	X40150-1648004	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.57		
MWDF3	GR259481	X07000-1649464	27.6KV_120V/240V_3_1P	Two-Winding Transformer	0.0		3.00		0.9			0.1			28.7			98.11	
MWDF3	GR259483	X06996-1650537	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.25
MWDF3	GR259488	TP7096-1648302	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.66		
MWDF3	GR259493	TP7889-1648303	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.65		
MWDF3	GR259499	TP7888-1648304	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.65		
MWDF3	GR259504	TP7097-1648305	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.65		
MWDF3	GR259507	X06991-1648039	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		7.2			0.5			28.7			98.46	
MWDF3	GR259512	TP7098-1648310	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.72		
MWDF3	GR259517	TP7883-1648309	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.71		
MWDF3	GR259522	TP7884-1648308	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.70		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR259527	TP7885-1648390	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.69		
MWDF3	GR259532	TP7886-1648307	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.69		
MWDF3	GR259537	TP7887-1648306	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.69		
MWDF3	GR259559	000406-1675707	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	41.6			2.6			24.8			98.67		
MWDF3	GR259564	TBD-18109403	27.6KV_120V/240V_-1_1P	Two-Winding Transformer	0.0		50.00	0.0			0.0			0.0			99.15		
MWDF3	GR259568	X06976-1648446	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.23
MWDF3	GR259572	X06972-1649121	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		4.3			0.3			28.7			98.50	
MWDF3	GR259577	X06959-1675777	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00			4.7			0.3			31.4			99.02
MWDF3	GR259579	X06962-1649194	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.22
MWDF3	GR259588	TP6088-11367054	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.01
MWDF3	GR259593	TP6089-11367039	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.00
MWDF3	GR259598	TP5844-11278437	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.00
MWDF3	GR259603	TP5843-11278471	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.00
MWDF3	GR259608	TP5842-11278439	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.99
MWDF3	GR259613	TP2134-9031409	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.99
MWDF3	GR259618	TP2135-1701951	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.99
MWDF3	GR259623	TP2139-9031418	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			31.6			2.0			31.4			98.98
MWDF3	GR259628	TP2138-10004857	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			98.98
MWDF3	GR259633	TP6085-11367062	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.67	
MWDF3	GR259646	TP2136-10004792	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.03
MWDF3	GR259651	TP3927-11221619	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			31.6			2.0			31.4			99.01
MWDF3	GR259656	TP3928-11222593	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.01
MWDF3	GR259661	TP3929-11229532	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			31.6			2.0			31.4			99.00
MWDF3	GR259666	TP3930-11228243	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			31.6			2.0			31.4			98.99
MWDF3	GR259671	TP3931-11224605	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			31.6			2.0			31.4			98.99
MWDF3	GR259676	TP3932-11229535	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			31.6			2.0			31.4			98.99
MWDF3	GR259681	TP2137-10003694	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			98.98
MWDF3	GR259689	TP2131-1701963	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	24.9			1.6			24.8			99.06		
MWDF3	GR259694	TP5849-11278132	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			99.05		
MWDF3	GR259699	TP2132-1701961	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.05		
MWDF3	GR259704	TP2133-1701960	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			99.05		
MWDF3	GR259711	TP5845-11278296	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			98.82	
MWDF3	GR259720	TP5847-11278136	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			98.82	
MWDF3	GR259746	TP7321-11539994	27.6KV_347V/600V_2500_3P	Two-Winding Transformer	0.0		2500.00	207.8	240.9	263.6	13.1	15.2	16.6	24.8	28.7	31.4	98.98	98.78	98.87
MWDF3	GR259751	TP7322-11539993	27.6KV_347V/600V_2500_3P	Two-Winding Transformer	0.0		2500.00	207.8	240.9	263.6	13.1	15.2	16.6	24.8	28.7	31.4	98.97	98.76	98.86
MWDF3	GR259759	TP7323-11539910	27.6KV_347V/600V_2500_3P	Two-Winding Transformer	0.0		2500.00	207.8	240.9	263.6	13.1	15.2	16.6	24.8	28.7	31.4	98.97	98.77	98.86
MWDF3	GR259791	TP10954-15472033	27.6KV_347V/600V_2500_3P	Two-Winding Transformer	0.0		2500.00	207.8	240.9	263.6	13.1	15.2	16.6	24.8	28.7	31.4	98.97	98.77	98.86
MWDF3	GR259796	TP10953-15472026	27.6KV_347V/600V_2500_3P	Two-Winding Transformer	0.0		2500.00	207.8	240.9	263.6	13.1	15.2	16.6	24.8	28.7	31.4	98.97	98.76	98.85
MWDF3	GR259808	TP10951-15472024	27.6KV_347V/600V_2500_3P	Two-Winding Transformer	0.0		2500.00	424.0	424.0	424.0	26.7	26.8	26.7	49.8	49.8	49.8	97.46	97.33	97.50
MWDF3	GR259813	TP10952-15472025	27.6KV_347V/600V_2500_3P	Two-Winding Transformer	0.0		2500.00	207.8	240.9	263.6	13.1	15.2	16.6	24.8	28.7	31.4	98.97	98.76	98.86
MWDF3	GR259822	TP12258-16424516	27.6KV_347V/600V_1000_3P	Two-Winding Transformer	0.0		1000.00	83.1	96.3	105.4	5.2	6.1	6.6	24.8	28.7	31.4	99.03	98.83	98.93
MWDF3	GR259827	X08095-11319450	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			7.9			0.5			31.4			99.28
MWDF3	GR259832	TP8118-13154771	27.6KV_347V/600V_1000_3P	Two-Winding Transformer	0.0		1000.00	148.4	148.4	148.4	9.3	9.4	9.3	43.8	43.8	43.8	98.02	97.93	98.07
MWDF3	GR259841	TP6083-11367093	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.97		
MWDF3	GR259850	TP6086-11367097	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.66	
MWDF3	GR259857	TP6084-11367103	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.96		
MWDF3	GR259865	TP6087-11367106	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.66	
MWDF3	GR259871	TP5848-11346645	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			98.96		
MWDF3	GR259877	TP5846-11278231	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			98.96		
MWDF3	GR259886	TP7864-1649001	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.21
MWDF3	GR259891	TP7865-1649002	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.20
MWDF3	GR259896	TP7866-1649003	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.19
MWDF3	GR259901	TP7111-1649004	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.18
MWDF3	GR259906	TP7867-1649005	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.17
MWDF3	GR259911	TP7868-1649006	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.17
MWDF3	GR259916	TP7869-1649012	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.16
MWDF3	GR259921	TP7112-1649007	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.16
MWDF3	GR259926	TP7870-1649008	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.15
MWDF3	GR259931	TP7871-1649009	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.15
MWDF3	GR259936	TP7872-1649010	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.15
MWDF3	GR259941	TP7873-1648877	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			99.14
MWDF3	GR259948	TP7109-1648875	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.67	
MWDF3	GR259953	TP7855-1648876	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			97.66	
MWDF3	GR259958	TP7856-1649920	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.66	
MWDF3	GR259963	TP7857-1649921	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.66	
MWDF3	GR259968	TP7858-1649922	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.66	
MWDF3	GR259973	TP7859-1649923	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			97.65	
MWDF3	GR259980	TP8914-13181246	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			98.77	
MWDF3	GR259985	TP10677-15443106	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.76	
MWDF3	GR259990	TP12645-17237337	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		28.9			1.8			28.7			98.75	
MWDF3	GR259995	TP12646-17237342	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			98.75	
MWDF3	GR260000	TP10678-15443107	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.74	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR260005	TP10679-15443112	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.73	
MWDF3	GR260010	TP10680-15443113	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.72	
MWDF3	GR260015	TP10681-15443114	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.71	
MWDF3	GR260020	TP8916-13181281	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.70	
MWDF3	GR260025	TP8917-13181289	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.69	
MWDF3	GR260030	TP10693-15429936	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			98.68	
MWDF3	GR260035	TP10685-15499775	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			98.66	
MWDF3	GR260040	TP10691-15499874	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			98.65	
MWDF3	GR260045	TP10690-15499846	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			98.65	
MWDF3	GR260050	TP10689-15429929	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			98.64	
MWDF3	GR260055	TP10688-15499753	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.64	
MWDF3	GR260060	TP10686-15429925	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.63	
MWDF3	GR260065	TP10687-15499740	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		21.7			1.4			28.7			98.63	
MWDF3	GR260070	TP10682-15499731	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.63	
MWDF3	GR260075	TP10683-15429931	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.62	
MWDF3	GR260080	TP10684-15499701	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.62	
MWDF3	GR260085	TP10692-15499696	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.62	
MWDF3	GR260089	TP10663-15433831	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			98.96
MWDF3	GR260103	TP10988-15528635	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.92
MWDF3	GR260108	TP10989-15528638	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			98.92
MWDF3	GR260113	TP10985-15528662	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.91
MWDF3	GR260118	TP13810-15528699	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			52.8			3.3			31.4			98.89
MWDF3	GR260123	TP13809-15528667	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			31.6			2.0			31.4			98.89
MWDF3	GR260128	TP10668-15433865	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.88
MWDF3	GR260133	TP10664-15433847	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			98.88
MWDF3	GR260138	TP8915-13181257	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.87
MWDF3	GR260143	TP8918-13177080	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.87
MWDF3	GR260145	TP10667-15433896	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			98.93
MWDF3	GR260147	TP10666-15433924	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			98.94
MWDF3	GR260149	TP10665-15433937	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			23.7			1.5			31.4			98.95
MWDF3	GR260155	TP9088-1649248	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.07		
MWDF3	GR260160	TP9089-1649251	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.07		
MWDF3	GR260165	TP9090-1675776	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.07		
MWDF3	GR260170	TP9091-1649250	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.07		
MWDF3	GR260175	TP9092-1649249	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.07		
MWDF3	GR260180	TP9093-1675774	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.06		
MWDF3	GR260185	TP9094-1649253	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.06		
MWDF3	GR260190	TP9095-1649254	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.06		
MWDF3	GR260197	TP9315-1648673	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.04
MWDF3	GR260205	TP9316-1648665	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.04
MWDF3	GR260211	TP9324-1648672	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.03
MWDF3	GR260216	TP9325-1648671	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.03
MWDF3	GR260221	TP9326-1648670	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.03
MWDF3	GR260226	TP9327-1648669	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.03
MWDF3	GR260231	TP9310-1648668	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.02
MWDF3	GR260237	TP9304-1648664	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.91	
MWDF3	GR260242	TP9314-1648663	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.90	
MWDF3	GR260249	TP9305-1648662	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.90	
MWDF3	GR260258	TP9306-1648714	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.90	
MWDF3	GR260265	TP9311-1648713	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.02
MWDF3	GR260269	TP9307-1648715	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.90	
MWDF3	GR260274	TP9318-1648661	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.90	
MWDF3	GR260280	TP8329-1649907	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			99.08		
MWDF3	GR260288	TP8328-1649258	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	18.7			1.2			24.8			99.08		
MWDF3	GR260296	TP8327-1649871	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.08		
MWDF3	GR260304	TP8321-1649260	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.03
MWDF3	GR260312	TP7140-1649873	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.02
MWDF3	GR260317	TP8319-1649874	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.01
MWDF3	GR260322	TP8318-1649876	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.01
MWDF3	GR260327	TP8317-1649877	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.01
MWDF3	GR260332	TP7141-1649878	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.00
MWDF3	GR260337	TP8316-1649880	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.00
MWDF3	GR260342	TP8320-1649872	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			99.00
MWDF3	GR260352	TP8326-1649283	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.08		
MWDF3	GR260358	TP8337-1649261	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.90	
MWDF3	GR260363	TP8336-1649262	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.90	
MWDF3	GR260368	TP8335-1649298	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.90	
MWDF3	GR260373	TP8334-1649276	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.90	
MWDF3	GR260378	TP7130-1649277	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.90	
MWDF3	GR260383	TP8333-1649278	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.89	
MWDF3	GR260391	TP8315-1649279	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.99
MWDF3	GR260399	TP7131-1649280	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.07		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
MWDF3	GR260409	TP8325-1649281	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.07		
MWDF3	GR260415	TP8332-1649561	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.89	
MWDF3	GR260420	TP8331-1649282	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.89	
MWDF3	GR260425	TP8330-1675779	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		14.4			0.9			28.7			98.89	
MWDF3	GR260432	TP8314-1648848	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.98
MWDF3	GR260437	TP7125-1648847	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.98
MWDF3	GR260442	TP8312-1648846	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.98
MWDF3	GR260447	TP8311-1648845	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.98
MWDF3	GR260452	TP8310-1648844	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			15.8			1.0			31.4			98.98
MWDF3	GR260458	TP8324-1648841	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.07		
MWDF3	GR260463	TP8323-1648842	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.07		
MWDF3	GR260468	TP8322-1648843	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.5			0.8			24.8			99.07		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
UN04	GR239730	7000621	BUS4.16KV_3P_0A__AIR	Cable	0.1	600.0000		900.9	674.6	699.8	375.1	280.9	291.4	62.5	46.8	48.6	100.00	100.00	100.00
UN04	GR239731	7000622	BUS4.16KV_3P_0A__AIR	Cable	0.1	600.0000		900.9	674.6	699.8	375.1	280.9	291.4	62.5	46.8	48.6	100.00	100.00	100.00
UN04	GR239732	7000276	BUS4.16KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	100.00	100.00
UN04	GR239733	7000623	BUS4.16KV_3P_0A__AIR	Cable	0.1	600.0000		900.9	674.6	699.8	375.1	280.9	291.4	62.5	46.8	48.6	100.00	100.00	100.00
UN04	GR239734	7028497	4.16KV_3P_350_CU_PILC	Cable	0.8	340.0000		900.9	674.6	699.8	375.1	280.9	291.4	110.3	82.6	85.7	100.00	100.00	100.00
UN04	GR239735	7031578	4.16KV_3P_350_CU_PILC	Cable	20.6	340.0000		900.9	674.6	699.8	375.1	280.9	291.4	110.3	82.6	85.7	99.90	99.97	100.00
UN04	GR239736	7031758	4.16KV_3P_500_CU_EPR	Cable	124.4	455.0000		900.0	674.5	699.8	375.1	280.9	291.4	82.4	61.7	64.0	99.45	99.63	99.68
UN04	GR239737	7032843	4.16KV_3P_350_CU_PILC	Cable	29.4	340.0000		895.9	672.1	697.5	375.1	280.9	291.4	110.3	82.6	85.7	99.31	99.59	99.68
UN04	GR239748	18112585	4.16KV_3P_1/0_CU_XLPE	Cable	11.1	220.0000		56.1	32.3	25.3	23.6	13.5	10.6	10.7	6.1	4.8	98.80	99.35	99.38
UN04	GR239761	7028830	4.16KV_1P_1/0_AL_XLPE	Cable	52.2	220.0000			64.4			27.0			12.3			99.32	
UN04	GR239764	7028832	4.16KV_1P_1/0_AL_XLPE	Cable	2.0	220.0000			32.2			13.5			6.1			99.32	
UN04	GR239772	7032524	4.16KV_1P_1/0_AL_XLPE	Cable	39.3	220.0000			32.2			13.5			6.1			99.35	
UN04	GR239775	7028831	4.16KV_1P_1/0_AL_XLPE	Cable	32.1	220.0000			0.0			0.0			0.0			99.35	
UN04	GR239871	14707289	4.16KV_3P_1/0_CU_XLPE	Cable	34.6	220.0000		49.5	49.5	49.5	21.5	21.0	21.3	9.8	9.5	9.7	95.77	98.25	96.62
UN04	GR239929	7029359	4.16KV_3P_500_AL_XLPE	Cable	4.6	455.0000		9.1	27.9	20.7	4.0	11.8	8.9	0.9	2.6	2.0	96.12	98.19	96.83
UN04	GR240026	11347565	4.16KV_3P_1/0_CU_XLPE	Cable	8.5	220.0000		56.1	32.3	25.3	23.8	13.6	10.6	10.8	6.2	4.8	98.31	99.12	98.86
UN04	GR240034	7033760	4.16KV_3P_1/0_CU_XLPE	Cable	45.6	220.0000		56.1	32.3	25.3	23.8	13.6	10.6	10.8	6.2	4.8	98.27	99.09	98.84
UN04	GR240041	16464322	4.16KV_3P_1/0_CU_XLPE	Cable	5.9	220.0000		39.1	39.1	39.1	16.6	16.4	16.5	7.5	7.5	7.5	98.28	99.06	98.82
UN04	GR240050	7030513	4.16KV_1P_350_CU_PILC	Cable	3.8	340.0000				7.9			3.3			1.0			98.82
UN04	GR240055	7030512	4.16KV_1P_350_CU_PILC	Cable	2.2	340.0000				17.4			7.3			2.2			98.82
UN04	GR240067	7029670	4.16KV_1P_350_AL_XLPE	Cable	156.8	390.0000				18.9			7.9			2.0			99.60
UN04	GR240072	7027983	4.16KV_1P_350_AL_XLPE	Cable	40.7	390.0000				0.0			0.0			0.0			99.60
UN04	GR240074	7028804	4.16KV_1P_350_AL_XLPE	Cable	121.0	390.0000				25.2			10.5			2.7			99.60
UN04	GR239738	16463478	4.16KV_3P_Y4/0_CU	Overhead Line	2.0	480.0000		894.7	671.9	697.5	375.1	280.9	291.4	78.1	58.5	60.7	99.30	99.59	99.67
UN04	GR239739	15576257	4.16KV_3P_Y1/0_CU	Overhead Line	4.8	310.0000		894.6	671.9	697.5	375.1	280.9	291.4	121.0	90.6	94.0	99.26	99.57	99.64
UN04	GR239740	7032203	4.16KV_3P_Y1/0_CU	Overhead Line	41.1	310.0000		894.3	671.7	653.1	375.1	280.9	272.9	121.0	90.6	88.0	98.91	99.39	99.39
UN04	GR239741	7027956	4.16KV_3P_Y4/0_CU	Overhead Line	23.7	480.0000		84.1	144.9	25.3	35.4	60.7	10.6	7.4	12.6	2.2	98.89	99.37	99.40
UN04	GR239742	7028829	4.16KV_3P_Y4/0_CU	Overhead Line	2.2	480.0000		84.0	48.4	25.3	35.4	20.3	10.6	7.4	4.2	2.2	98.88	99.37	99.40
UN04	GR239743	7028821	4.16KV_3P_Y4/0_CU	Overhead Line	35.7	480.0000		84.0	48.4	25.3	35.4	20.3	10.6	7.4	4.2	2.2	98.86	99.37	99.39
UN04	GR239744	7028822	4.16KV_3P_Y4/0_CU	Overhead Line	26.0	480.0000		56.1	48.4	25.3	23.6	20.3	10.6	4.9	4.2	2.2	98.85	99.37	99.39
UN04	GR239745	7028823	4.16KV_3P_Y4/0_CU	Overhead Line	40.5	480.0000		56.1	48.4	25.3	23.6	20.3	10.6	4.9	4.2	2.2	98.83	99.36	99.39
UN04	GR239746	7028824	4.16KV_3P_Y4/0_CU	Overhead Line	31.1	480.0000		56.1	48.4	25.3	23.6	20.3	10.6	4.9	4.2	2.2	98.81	99.36	99.39
UN04	GR239747	16493006	4.16KV_3P_N1/0_CU	Overhead Line	1.3	310.0000		56.1	32.3	25.3	23.6	13.5	10.6	7.6	4.4	3.4	98.81	99.36	99.39
UN04	GR239753	7030085	4.16KV_3P_Y4/0_CU	Overhead Line	41.7	480.0000		0.0	16.1	0.0	0.0	6.7	0.0	0.0	1.4	0.0	98.81	99.35	99.39
UN04	GR239758	7032526	4.16KV_1P_Y1/0_CU	Overhead Line	1.7	310.0000			96.6			40.5			13.1			99.37	
UN04	GR239759	7028825	4.16KV_1P_Y1/0_CU	Overhead Line	1.0	310.0000			64.4			27.0			8.7			99.37	
UN04	GR239760	7028827	4.16KV_1P_Y1/0_CU	Overhead Line	2.0	310.0000			64.4			27.0			8.7			99.37	
UN04	GR239770	7028826	4.16KV_1P_Y1/0_CU	Overhead Line	3.0	310.0000			32.2			13.5			4.3			99.37	
UN04	GR239771	7028828	4.16KV_1P_Y1/0_CU	Overhead Line	2.0	310.0000			32.2			13.5			4.3			99.37	
UN04	GR239779	7032850	4.16KV_3P_Y4/0_CU	Overhead Line	26.0	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.91	99.39	99.39
UN04	GR239780	7033751	4.16KV_3P_Y1/0_CU	Overhead Line	17.1	310.0000		807.0	525.6	626.2	339.7	220.2	262.3	109.6	71.0	84.6	98.78	99.34	99.28
UN04	GR239781	7030063	4.16KV_3P_Y1/0_CU	Overhead Line	18.8	310.0000		764.1	525.3	625.5	322.1	220.2	262.3	103.9	71.0	84.6	98.65	99.28	99.16
UN04	GR239782	7030064	4.16KV_3P_Y1/0_CU	Overhead Line	48.3	310.0000		763.1	525.0	624.8	322.1	220.2	262.3	103.9	71.0	84.6	98.32	99.13	98.86
UN04	GR239783	15554870	4.16KV_3P_Y1/0_CU	Overhead Line	42.9	310.0000		609.2	380.3	454.3	258.0	159.8	191.4	83.2	51.5	61.7	98.08	99.04	98.66
UN04	GR239784	7030067	4.16KV_3P_Y1/0_CU	Overhead Line	35.8	310.0000		565.8	380.0	453.4	240.2	159.8	191.4	77.5	51.5	61.7	97.89	98.96	98.49
UN04	GR239785	7030068	4.16KV_3P_Y1/0_CU	Overhead Line	52.4	310.0000		564.8	379.7	452.7	240.2	159.8	191.4	77.5	51.5	61.7	97.62	98.84	98.25
UN04	GR239788	7030069	4.16KV_3P_Y1/0_CU	Overhead Line	41.2	310.0000		563.2	363.2	451.5	240.2	153.0	191.4	77.5	49.3	61.7	97.41	98.76	98.06
UN04	GR239789	18181723	JUMPER	Overhead Line	0.0	600.0000		562.0	362.9	450.7	240.2	153.0	191.4	40.0	25.5	31.9	97.41	98.76	98.06
UN04	GR239790	15555094	4.16KV_3P_Y1/0_CU	Overhead Line	39.5	310.0000		553.6	358.0	446.9	236.6	150.9	189.7	76.3	48.7	61.2	97.21	98.68	97.87
UN04	GR239791	16466582	4.16KV_3P_Y1/0_CU	Overhead Line	33.3	310.0000		552.5	357.7	446.0	236.6	150.9	189.7	76.3	48.7	61.2	97.05	98.61	97.72
UN04	GR239792	16466581	4.16KV_3P_Y1/0_CU	Overhead Line	18.5	310.0000		551.5	333.4	445.3	236.6	140.8	189.7	76.3	45.4	61.2	96.95	98.58	97.63
UN04	GR239793	16466568	4.16KV_3P_Y1/0_CU	Overhead Line	50.5	310.0000		523.1	333.3	444.9	224.6	140.8	189.7	72.5	45.4	61.2	96.72	98.48	97.39
UN04	GR239794	16466567	4.16KV_3P_Y1/0_CU	Overhead Line	32.6	310.0000		521.8	316.9	443.8	224.6	134.0	189.7	72.5	43.2	61.2	96.57	98.42	97.23
UN04	GR239795	15470726	4.16KV_3P_Y1/0_CU	Overhead Line	26.0	310.0000		132.7	36.1	135.8	57.2	15.3	58.1	18.5	4.9	18.8	96.55	98.43	97.18
UN04	GR239796	7030098	4.16KV_3P_Y1/0_CU	Overhead Line	19.4	310.0000		132.7	36.1	116.8	57.2	15.3	50.0	18.5	4.9	16.1	96.53	98.43	97.15
UN04	GR239797	7030095	4.16KV_3P_Y1/0_CU	Overhead Line	33.7	310.0000		112.0	24.1	107.3	48.3	10.2	46.0	15.6	3.3	14.8	96.50	98.43	97.10
UN04	GR239798	7029423	4.16KV_1P_Y1/0_CU	Overhead Line	30.9	310.0000				50.5			21.6			7.0			97.08
UN04	GR239799	7030053	4.16KV_1P_Y1/0_CU	Overhead Line	34.6	310.0000				44.2			18.9			6.1			97.06
UN04	GR239800	7030078	4.16KV_1P_Y1/0_CU	Overhead Line	35.7	310.0000				31.5			13.5			4.4			97.05
UN04	GR239801	7030079	4.16KV_1P_Y1/0_CU	Overhead Line	26.4	310.0000				18.9			8.1			2.6			97.04
UN04	GR239802	7030292	4.16KV_1P_Y1/0_CU	Overhead Line	32.6	310.0000				0.0			0.0			0.0			97.04
UN04	GR239803	7030293	4.16KV_1P_Y1/0_CU	Overhead Line	26.1	310.0000				0.0			0.0			0.0			97.04
UN04	GR239812	7030086	4.16KV_2P_Y1/0_CU	Overhead Line	36.1	310.0000			0.0	31.5		0.0	13.5		0.0	4.4		98.43	97.09
UN04	GR239813	7030290	4.16KV_2P_Y1/0_CU	Overhead Line	31.0	310.0000			0.0	18.9		0.0	8.1		0.0	2.6		98.43	97.08
UN04	GR239818	7030094	4.16KV_3P_Y1/0_CU	Overhead Line	4.5	310.0000		112.0	24.1	25.2	48.3	10.2	10.8	15.6	3.3	3.5	96.50	98.44	97.10
UN04	GR239819	15555128	4.16KV_3P_Y1/0_CU	Overhead Line	30.2	310.0000		112.0	24.1	25.2	48.3	10.2	10.8	15.6	3.3	3.5	96.46	98.45	97.08
UN04	GR239820	7033747	4.16KV_3P_Y1/0_CU	Overhead Line	44.1	310.0000		111.9	0.0	25.2	48.3	0.0	10.8	15.6	0.0	3.5	96.40	98.47	97.06
UN04	GR239821	7030082	4.16KV_3P_Y4_CU	Overhead Line	38.8	170.0000		42.0	0.0	12.6	18.1	0.0	5.4	10.7	0.0	3.2	96.37	98.49	97.04
UN04	GR239822	13172022	4.16KV_3P_N4_CU	Overhead Line	38.5	170.0000		42.0	0.0	12.6	18.1	0.0	5.4	10.7	0.0	3.2	96.34	98.50	97.03
UN04	GR239823	7030080	4.16KV_3P_Y4_CU	Overhead Line	33.9	170.0000		41.9	0.0	0.0	18.1	0.0	0.0	10.7	0.0	0.0	96.31	98.51	97.03
UN04	GR239824	7033746	4.16KV_3P_Y4_CU	Overhead Line	47.4	170.0000		41.9	0.0	0.0	18.1	0.0	0.0	10.7	0.0	0.0	96.26	98.52	97.02

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
UN04	GR239825	7030087	4.16KV_3P_Y4_CU	Overhead Line	32.1	170.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.26	98.52	97.02
UN04	GR239826	7032520	4.16KV_3P_Y4_CU	Overhead Line	28.8	170.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.26	98.52	97.02
UN04	GR239831	7030088	DEFAULT	Overhead Line	33.4	1000.0000				12.6			5.4			0.5			97.05
UN04	GR239832	7030089	DEFAULT	Overhead Line	33.4	1000.0000				12.6			5.4			0.5			97.04
UN04	GR239833	7030090	DEFAULT	Overhead Line	34.0	1000.0000				0.0			0.0			0.0			97.04
UN04	GR239834	7028180	DEFAULT	Overhead Line	34.0	1000.0000				0.0			0.0			0.0			97.04
UN04	GR239835	7028181	DEFAULT	Overhead Line	23.1	1000.0000				0.0			0.0			0.0			97.04
UN04	GR239838	7030092	4.16KV_3P_Y1/0_CU	Overhead Line	46.5	310.0000		69.9	0.0	0.0	30.2	0.0	0.0	9.7	0.0	0.0	96.36	98.50	97.05
UN04	GR239841	7030091	4.16KV_1P_Y1/0_CU	Overhead Line	12.7	310.0000		41.9			18.1			5.8			96.36		
UN04	GR239842	7029425	4.16KV_1P_Y1/0_CU	Overhead Line	38.8	310.0000		41.9			18.1			5.8			96.33		
UN04	GR239851	7028281	4.16KV_3P_Y4/0_CU	Overhead Line	33.9	480.0000		388.4	280.6	307.3	167.4	118.7	131.6	34.9	24.7	27.4	96.49	98.39	97.15
UN04	GR239852	7028520	4.16KV_3P_Y4/0_CU	Overhead Line	46.1	480.0000		388.0	280.5	288.2	167.4	118.7	123.5	34.9	24.7	25.7	96.38	98.34	97.06
UN04	GR239853	7028522	4.16KV_3P_Y4/0_CU	Overhead Line	38.7	480.0000		387.6	264.3	287.9	167.4	111.9	123.5	34.9	23.3	25.7	96.28	98.31	96.98
UN04	GR239854	7028746	4.16KV_3P_Y4/0_CU	Overhead Line	32.1	480.0000		387.2	264.2	287.7	167.4	111.9	123.5	34.9	23.3	25.7	96.20	98.29	96.92
UN04	GR239855	7031878	4.16KV_3P_Y4/0_CU	Overhead Line	37.1	480.0000		386.9	264.1	268.6	167.4	111.9	115.4	34.9	23.3	24.0	96.11	98.26	96.85
UN04	GR239856	7028542	4.16KV_3P_Y4/0_CU	Overhead Line	46.0	480.0000		274.0	89.7	131.8	118.7	38.0	56.7	24.7	7.9	11.8	96.02	98.28	96.78
UN04	GR239857	7028735	4.16KV_3P_Y4/0_CU	Overhead Line	30.6	480.0000		217.8	89.8	106.5	94.5	38.0	45.8	19.7	7.9	9.5	95.97	98.29	96.75
UN04	GR239858	7028736	4.16KV_3P_Y4/0_CU	Overhead Line	52.3	480.0000		217.7	89.8	106.4	94.5	38.0	45.8	19.7	7.9	9.5	95.88	98.30	96.70
UN04	GR239859	7028737	4.16KV_3P_Y4/0_CU	Overhead Line	44.6	480.0000		133.7	89.8	87.4	58.0	38.0	37.6	12.1	7.9	7.8	95.84	98.29	96.67
UN04	GR239860	7028738	4.16KV_3P_Y4/0_CU	Overhead Line	32.3	480.0000		133.6	89.8	87.4	58.0	38.0	37.7	12.1	7.9	7.8	95.81	98.28	96.65
UN04	GR239861	12972450	4.16KV_1P_Y1/0_CU	Overhead Line	25.7	310.0000		41.9			18.2			5.9			95.80		
UN04	GR239865	12972455	4.16KV_1P_Y4/0_CU	Overhead Line	16.0	480.0000				18.9			8.2			1.7			96.65
UN04	GR239868	7028729	4.16KV_3P_Y4/0_CU	Overhead Line	21.7	480.0000		91.7	89.8	68.5	39.8	38.0	29.5	8.3	7.9	6.1	95.80	98.27	96.65
UN04	GR239869	15605039	4.16KV_3P_Y4/0_CU	Overhead Line	21.5	480.0000		49.5	65.6	49.5	21.5	27.8	21.3	4.5	5.8	4.4	95.79	98.26	96.64
UN04	GR239870	14626127	4.16KV_3P_Y4/0_CU	Overhead Line	9.0	480.0000		49.5	49.5	49.5	21.5	21.0	21.3	4.5	4.4	4.4	95.79	98.26	96.64
UN04	GR239875	7029398	4.16KV_1P_Y1/0_CU	Overhead Line	47.2	310.0000			16.1			6.8			2.2			98.26	
UN04	GR239876	7029178	4.16KV_1P_Y1/0_CU	Overhead Line	34.1	310.0000			16.1			6.8			2.2			98.25	
UN04	GR239877	7029179	4.16KV_1P_Y1/0_CU	Overhead Line	38.0	310.0000			16.1			6.8			2.2			98.24	
UN04	GR239883	7030786	4.16KV_1P_Y1/0_CU	Overhead Line	2.5	310.0000		69.9			30.3			9.8			95.88		
UN04	GR239884	7032514	4.16KV_1P_Y1/0_CU	Overhead Line	1.8	310.0000		69.9			30.3			9.8			95.88		
UN04	GR239885	7029360	4.16KV_1P_Y1/0_CU	Overhead Line	39.7	310.0000		69.9			30.3			9.8			95.85		
UN04	GR239886	7028740	4.16KV_1P_Y1/0_CU	Overhead Line	39.8	310.0000		41.9			18.2			5.9			95.82		
UN04	GR239887	7029169	4.16KV_1P_Y1/0_CU	Overhead Line	31.6	310.0000		14.0			6.1			2.0			95.82		
UN04	GR239894	7033099	4.16KV_1P_Y1/0_CU	Overhead Line	26.0	310.0000				18.9			8.1			2.6			96.70
UN04	GR239895	7029372	4.16KV_1P_Y1/0_CU	Overhead Line	37.7	310.0000				18.9			8.1			2.6			96.69
UN04	GR239900	7030782	4.16KV_1P_Y1/0_CU	Overhead Line	5.6	310.0000		55.9			24.2			7.8			96.01		
UN04	GR239901	7028298	4.16KV_1P_Y1/0_CU	Overhead Line	22.6	310.0000		55.9			24.2			7.8			96.00		
UN04	GR239902	7028739	4.16KV_1P_Y1/0_CU	Overhead Line	25.9	310.0000		55.9			24.2			7.8			95.98		
UN04	GR239903	7029168	4.16KV_1P_Y1/0_CU	Overhead Line	33.6	310.0000		27.9			12.1			3.9			95.97		
UN04	GR239904	7030141	4.16KV_1P_Y1/0_CU	Overhead Line	35.6	310.0000		27.9			12.1			3.9			95.95		
UN04	GR239909	7030787	4.16KV_1P_Y1/0_CU	Overhead Line	5.9	310.0000				25.2			10.9			3.5			96.78
UN04	GR239910	7030788	4.16KV_1P_Y1/0_CU	Overhead Line	7.6	310.0000				25.2			10.9			3.5			96.78
UN04	GR239911	7030575	4.16KV_1P_Y1/0_CU	Overhead Line	16.8	310.0000				25.2			10.9			3.5			96.78
UN04	GR239912	7027803	4.16KV_1P_Y1/0_CU	Overhead Line	24.8	310.0000				25.2			10.9			3.5			96.77
UN04	GR239913	7027802	4.16KV_1P_Y1/0_CU	Overhead Line	36.5	310.0000				25.2			10.9			3.5			96.76
UN04	GR239914	7027804	4.16KV_1P_Y1/0_CU	Overhead Line	35.6	310.0000				25.2			10.9			3.5			96.74
UN04	GR239915	7028960	4.16KV_1P_Y1/0_CU	Overhead Line	34.2	310.0000				12.6			5.4			1.8			96.74
UN04	GR239920	7029400	4.16KV_3P_Y4/0_CU	Overhead Line	31.1	480.0000		9.1	43.9	33.3	4.0	18.6	14.3	0.8	3.9	3.0	96.11	98.24	96.85
UN04	GR239921	7028747	4.16KV_3P_Y4/0_CU	Overhead Line	36.9	480.0000		9.1	27.9	33.3	4.0	11.8	14.3	0.8	2.5	3.0	96.11	98.23	96.84
UN04	GR239922	7033097	4.16KV_3P_Y4/0_CU	Overhead Line	35.0	480.0000		9.1	27.9	33.3	4.0	11.8	14.3	0.8	2.5	3.0	96.12	98.22	96.83
UN04	GR239923	7028748	4.16KV_3P_Y4/0_CU	Overhead Line	41.0	480.0000		9.1	27.9	20.7	4.0	11.8	8.9	0.8	2.5	1.9	96.12	98.21	96.83
UN04	GR239924	7028959	4.16KV_3P_Y4/0_CU	Overhead Line	36.0	480.0000		9.1	27.9	20.7	4.0	11.8	8.9	0.8	2.5	1.9	96.12	98.20	96.83
UN04	GR239925	7029361	4.16KV_3P_Y4/0_CU	Overhead Line	11.4	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.12	98.20	96.83
UN04	GR239926	12978130	4.16KV_3P_N4_CU	Overhead Line	18.9	170.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.12	98.20	96.83
UN04	GR239927	7032102	4.16KV_3P_Y4/0_CU	Overhead Line	4.2	480.0000		9.1	27.9	20.7	4.0	11.8	8.9	0.8	2.5	1.9	96.12	98.19	96.83
UN04	GR239928	7029362	4.16KV_3P_Y1/0_CU	Overhead Line	4.1	310.0000		9.1	27.9	20.7	4.0	11.8	8.9	1.3	3.8	2.9	96.12	98.19	96.83
UN04	GR239937	7031679	4.16KV_3P_Y4/0_CU	Overhead Line	2.0	480.0000		103.8	130.7	103.4	45.0	55.4	44.4	9.4	11.5	9.3	96.11	98.26	96.85
UN04	GR239938	7029363	4.16KV_3P_Y4/0_CU	Overhead Line	32.8	480.0000		103.8	130.7	84.5	45.0	55.4	36.3	9.4	11.5	7.6	96.08	98.23	96.84
UN04	GR239939	7028749	4.16KV_3P_Y4/0_CU	Overhead Line	42.6	480.0000		103.8	130.6	84.4	45.0	55.4	36.3	9.4	11.5	7.6	96.05	98.20	96.83
UN04	GR239940	15464224	4.16KV_3P_Y4/0_CU	Overhead Line	1.6	480.0000		103.8	118.5	84.4	45.0	50.2	36.3	9.4	10.5	7.6	96.04	98.20	96.83
UN04	GR239941	7027387	4.16KV_3P_Y4/0_CU	Overhead Line	3.6	480.0000		103.8	118.5	84.4	45.0	50.2	36.3	9.4	10.5	7.6	96.04	98.20	96.83
UN04	GR239942	7027385	4.16KV_3P_Y1/0_CU	Overhead Line	39.3	310.0000		28.0	32.2	12.6	12.1	13.6	5.4	3.9	4.4	1.8	96.03	98.19	96.82
UN04	GR239943	7028767	4.16KV_3P_Y1/0_CU	Overhead Line	35.8	310.0000		28.0	16.1	12.6	12.1	6.8	5.4	3.9	2.2	1.8	96.02	98.18	96.82
UN04	GR239944	7032509	4.16KV_3P_Y1/0_CU	Overhead Line	49.7	310.0000		27.9	16.1	0.0	12.1	6.8	0.0	3.9	2.2	0.0	96.00	98.18	96.82
UN04	GR239945	7028761	4.16KV_3P_Y1/0_CU	Overhead Line	32.5	310.0000		27.9	0.0	0.0	12.1	0.0	0.0	3.9	0.0	0.0	95.99	98.19	96.82
UN04	GR239946	11644094	4.16KV_3P_Y1/0_CU	Overhead Line	1.0	310.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.99	98.19	96.82
UN04	GR239957	7027390	4.16KV_3P_Y4/0_CU	Overhead Line	26.5	480.0000		75.8	86.3	71.8	32.9	36.6	30.9	6.8	7.6	6.4	96.03	98.18	96.82
UN04	GR239958	7027391	4.16KV_3P_Y4/0_CU	Overhead Line	24.4	480.0000		75.8	86.3	59.2	32.9	36.6	25.5	6.8	7.6	5.3	96.02	98.17	96.81
UN04	GR239959	7027392	4.16KV_3P_Y4/0_CU	Overhead Line	26.1	480.0000		75.8	86.3	59.2	32.9	36.6	25.5	6.8	7.6	5.3	96.00	98.16	96.81
UN04	GR239960	7030816	4.16KV_3P_Y4/0_CU	Overhead Line	36.5	480.0000		75.8	86.3	59.2	32.9	36.6	25.5	6.8	7.6	5.3	95.98	98.14	96.80
UN04	GR239961	7029844	4.16KV_3P_Y4/0_CU	Overhead Line	28.6	480.0000		33.9	86.3	59.2	14.7	36.6	25.5	3.1	7.6	5.3	95.97	98.12	96.79

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
UN04	GR239962	7029843	4.16KV_3P_Y4/0_CU	Overhead Line	28.7	480.0000		33.9	74.2	59.2	14.7	31.5	25.5	3.1	6.6	5.3	95.97	98.10	96.79
UN04	GR239963	7029842	4.16KV_3P_Y4_CU	Overhead Line	36.1	170.0000		33.8	58.1	59.2	14.7	24.7	25.5	8.6	14.5	15.0	95.95	98.06	96.75
UN04	GR239964	7029841	4.16KV_3P_Y4_CU	Overhead Line	38.3	170.0000		33.8	58.1	59.2	14.7	24.7	25.5	8.6	14.5	15.0	95.94	98.02	96.72
UN04	GR239965	7032313	4.16KV_3P_Y4_CU	Overhead Line	17.5	170.0000		33.8	58.0	59.1	14.7	24.7	25.5	8.6	14.5	15.0	95.93	98.00	96.70
UN04	GR239966	7029380	4.16KV_3P_Y4_CU	Overhead Line	23.5	170.0000		33.8	58.0	59.1	14.7	24.7	25.5	8.6	14.5	15.0	95.92	97.97	96.68
UN04	GR239967	7029381	4.16KV_3P_Y4_CU	Overhead Line	45.2	170.0000		33.8	58.0	59.1	14.7	24.7	25.5	8.6	14.5	15.0	95.90	97.92	96.63
UN04	GR239968	7029384	4.16KV_3P_Y4_CU	Overhead Line	51.4	170.0000		33.8	58.0	52.8	14.7	24.7	22.7	8.6	14.5	13.4	95.87	97.86	96.59
UN04	GR239969	7029385	4.16KV_3P_Y4_CU	Overhead Line	34.3	170.0000		33.8	58.0	52.8	14.7	24.7	22.7	8.6	14.5	13.4	95.85	97.82	96.56
UN04	GR239970	7029387	4.16KV_3P_Y4/0_CU	Overhead Line	24.5	480.0000		33.8	33.8	52.7	14.7	14.4	22.7	3.1	3.0	4.7	95.85	97.81	96.55
UN04	GR239971	7029389	4.16KV_3P_Y4/0_CU	Overhead Line	52.8	480.0000		0.0	0.0	18.9	0.0	0.0	8.2	0.0	0.0	1.7	95.86	97.81	96.54
UN04	GR239988	7027388	4.16KV_1P_Y4/0_CU	Overhead Line	45.5	480.0000			12.1			5.1			1.1			98.19	
UN04	GR240011	7027953	4.16KV_1P_Y1/0_CU	Overhead Line	17.9	310.0000				34.7			14.6			4.7			98.85
UN04	GR240012	12988124	4.16KV_1P_Y1/0_CU	Overhead Line	27.7	310.0000				34.7			14.6			4.7			98.84
UN04	GR240013	7028184	4.16KV_1P_Y1/0_CU	Overhead Line	38.1	310.0000				34.7			14.6			4.7			98.82
UN04	GR240014	7028185	4.16KV_1P_Y1/0_CU	Overhead Line	35.2	310.0000				22.1			9.3			3.0			98.81
UN04	GR240015	7028186	4.16KV_1P_Y1/0_CU	Overhead Line	37.6	310.0000				22.1			9.3			3.0			98.80
UN04	GR240016	7032635	4.16KV_1P_Y1/0_CU	Overhead Line	31.3	310.0000				9.5			4.0			1.3			98.80
UN04	GR240017	7032636	4.16KV_1P_Y1/0_CU	Overhead Line	17.9	310.0000				9.5			4.0			1.3			98.80
UN04	GR240024	7028173	4.16KV_3P_Y4/0_CU	Overhead Line	20.0	480.0000		56.1	32.3	25.3	23.8	13.6	10.6	4.9	2.8	2.2	98.31	99.12	98.86
UN04	GR240025	11347562	4.16KV_3P_N4/0_CU	Overhead Line	1.8	480.0000		56.1	32.3	25.3	23.8	13.6	10.6	4.9	2.8	2.2	98.31	99.12	98.86
UN04	GR240030	7028174	4.16KV_3P_Y4/0_CU	Overhead Line	1.7	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.31	99.12	98.86
UN04	GR240031	7029426	4.16KV_3P_Y4/0_CU	Overhead Line	35.5	480.0000		95.2	111.6	89.6	40.3	46.9	37.7	8.4	9.8	7.9	98.30	99.10	98.85
UN04	GR240032	7028601	4.16KV_3P_Y4/0_CU	Overhead Line	3.2	480.0000		56.1	32.3	25.3	23.8	13.6	10.6	5.0	2.8	2.2	98.30	99.10	98.85
UN04	GR240033	7028603	4.16KV_3P_Y1/0_CU	Overhead Line	2.1	310.0000		56.1	32.3	25.3	23.8	13.6	10.6	7.7	4.4	3.4	98.30	99.10	98.85
UN04	GR240038	7030093	4.16KV_3P_Y4/0_CU	Overhead Line	38.8	480.0000		39.1	79.3	64.3	16.6	33.3	27.1	3.5	6.9	5.6	98.29	99.08	98.84
UN04	GR240039	7030096	4.16KV_3P_Y4/0_CU	Overhead Line	36.5	480.0000		39.1	55.2	64.3	16.6	23.2	27.1	3.5	4.8	5.6	98.29	99.06	98.83
UN04	GR240040	17983854	4.16KV_3P_N1/0_CU	Overhead Line	1.6	310.0000		39.1	39.1	39.1	16.6	16.4	16.5	5.3	5.3	5.3	98.29	99.06	98.82
UN04	GR240045	7030097	4.16KV_3P_Y4/0_CU	Overhead Line	25.7	480.0000		0.0	16.1	25.2	0.0	6.8	10.6	0.0	1.4	2.2	98.29	99.06	98.82
UN04	GR240046	7030262	4.16KV_3P_Y4/0_CU	Overhead Line	36.5	480.0000		0.0	16.1	25.2	0.0	6.8	10.6	0.0	1.4	2.2	98.29	99.05	98.82
UN04	GR240047	7030265	4.16KV_3P_Y4/0_CU	Overhead Line	29.8	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.29	99.05	98.82
UN04	GR240048	7030269	4.16KV_1P_Y4/0_CU	Overhead Line	1.0	480.0000				25.2			10.6			2.2			98.82
UN04	GR240049	7030270	4.16KV_1P_Y4/0_CU	Overhead Line	3.0	480.0000				7.9			3.3			0.7			98.82
UN04	GR240054	7030271	4.16KV_1P_Y4/0_CU	Overhead Line	1.0	480.0000				17.4			7.3			1.5			98.82
UN04	GR240063	7032204	4.16KV_3P_Y1/0_CU	Overhead Line	25.8	310.0000		0.0	0.0	44.2	0.0	0.0	18.5	0.0	0.0	6.0	99.27	99.56	99.62
UN04	GR240064	16414133	4.16KV_3P_Y1/0_CU	Overhead Line	1.5	310.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.27	99.56	99.62
UN04	GR240065	7027982	4.16KV_1P_Y1/0_CU	Overhead Line	3.6	310.0000				44.1			18.5			6.0			99.62
UN04	GR240066	7028645	4.16KV_1P_Y1/0_CU	Overhead Line	1.4	310.0000				18.9			7.9			2.6			99.62
UN04	GR240073	7028646	4.16KV_1P_Y1/0_CU	Overhead Line	2.4	310.0000				25.2			10.5			3.4			99.62
UN04	GR239750	TP12689-16492907	4.16KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	56.1	32.3	25.3	23.6	13.5	10.6	54.9	31.9	25.0	96.78	98.20	98.46
UN04	GR239754	X30979-1674341	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.7			31.9			98.45	
UN04	GR239756	X30837-1652966	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			11.8			54.9			97.29		
UN04	GR239766	K01038-1659200	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		32.2			13.5			31.9			98.42	
UN04	GR239768	K01037-1659199	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		32.2			13.5			31.9			98.42	
UN04	GR239777	K01036-1659198	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		32.2			13.5			31.9			98.45	
UN04	GR239786	65C1A-0500-1670507	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.94	
UN04	GR239804	X31233-1667269	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			96.30
UN04	GR239806	X30892-1667268	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.31
UN04	GR239808	X31232-1667267	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.32
UN04	GR239810	X27554-1667266	4.16KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			6.3			2.7			25.0			96.34
UN04	GR239814	X31231-1667264	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			96.34
UN04	GR239816	X27553-12939090	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.34
UN04	GR239827	X30705-1668797	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.9			18.1			54.9			94.65		
UN04	GR239829	X30707-1668798	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.29
UN04	GR239836	X44258-1668792	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.30
UN04	GR239839	X27622-1670510	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.1			54.9			94.75		
UN04	GR239843	X26261-1652973	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.9			18.1			54.9			94.72		
UN04	GR239845	X27621-1670509	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		24.1			10.2			31.9			97.54	
UN04	GR239847	X28590-16420952	4.16KV_347V/600V_112.5_3P	Two-Winding Transformer	0.0		112.50	20.6	12.0	9.4	8.9	5.1	4.0	18.3	10.6	8.3	96.37	98.33	97.07
UN04	GR239849	X27620-1652974	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			96.44
UN04	GR239862	X39383-12972028	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.9			18.2			54.9			94.18		
UN04	GR239866	X30829-1652980	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.2			25.0			95.91
UN04	GR239873	TP10296-14707293	4.16KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	49.5	49.5	49.5	21.5	21.0	21.3	48.5	48.5	48.5	93.84	96.36	94.71
UN04	GR239878	X30712-1669886	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.33	
UN04	GR239881	X47326-14693948	4.16KV_347V/600V_225_3P	Two-Winding Transformer	0.0		225.00	42.1	24.2	19.0	18.3	10.3	8.2	54.9	31.9	25.0	93.71	97.11	95.69
UN04	GR239888	X31227-1667276	4.16KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	14.0			6.1			54.9			94.20		
UN04	GR239890	X30882-1667277	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.1			54.9			94.20		
UN04	GR239892	X26097-1667278	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.1			54.9			94.23		
UN04	GR239896	X30880-1668801	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			95.94
UN04	GR239898	X30831-1670759	4.16KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	14.0			6.1			54.9			94.27		
UN04	GR239905	X30827-1667275	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.1			54.9			94.34		
UN04	GR239907	X30884-1668946	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.1			54.9			94.36		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
UN04	GR239916	X21545-1668969	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.00
UN04	GR239918	X34745-1668957	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.00
UN04	GR239931	P00019-1672012	4.16KV_120V/208V_150_3P	Two-Winding Transformer	0.0		150.00	9.1	27.9	20.7	4.0	11.8	8.9	18.2	54.5	40.9	95.79	95.79	95.93
UN04	GR239933	X27578-1668913	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.09
UN04	GR239935	X42988-12978117	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.33	
UN04	GR239947	X27606-1665638	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.1			54.9			94.37		
UN04	GR239950	X27607-1665641	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.27	
UN04	GR239953	X27608-1665639	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.08
UN04	GR239955	X21678-1665631	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.27	
UN04	GR239972	X30711-1669884	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.2			25.0			95.80
UN04	GR239974	X30710-1668723	4.16KV_347V/600V_112.5_3P	Two-Winding Transformer	0.0		112.50	33.8	33.8	33.8	14.7	14.4	14.6	30.0	30.0	30.0	95.56	97.52	96.26
UN04	GR239976	X27574-1667279	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		24.1			10.3			31.9			96.90	
UN04	GR239978	X27566-13138773	4.16KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			6.3			2.7			25.0			95.89
UN04	GR239980	X27612-1665636	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.19	
UN04	GR239982	X27611-1665635	4.16KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		12.1			5.1			31.9			97.21	
UN04	GR239984	X27610-1665634	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.9			18.2			54.9			94.36		
UN04	GR239986	X27609-1665632	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.07
UN04	GR239989	X30833-1670946	4.16KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		12.1			5.1			31.9			97.28	
UN04	GR239991	X30832-1670947	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			96.11
UN04	GR239993	X27579-12546500	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			96.18
UN04	GR239995	X27580-12546496	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.43	
UN04	GR239997	X43642-1668803	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			96.42
UN04	GR239999	X38870-1670508	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.57	
UN04	GR240001	X27605-1670511	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.0			54.9			95.35		
UN04	GR240003	X27618-1652975	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		24.1			10.2			31.9			97.70	
UN04	GR240005	X27617-11638481	4.16KV_347V/600V_45_3P	Two-Winding Transformer	0.0		45.00	8.4	4.8	3.8	3.6	2.0	1.6	54.9	31.9	25.0	95.82	97.85	97.32
UN04	GR240007	X27616-1670513	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.9			17.8			54.9			96.50		
UN04	GR240009	X27615-1670512	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.0			25.0			98.13
UN04	GR240018	X30978-1674342	4.16KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			9.5			4.0			25.0			98.07
UN04	GR240020	X30961-1669253	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.3			25.0			98.08
UN04	GR240022	X30960-14621212	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.3			25.0			98.10
UN04	GR240028	TP5856-11294230	4.16KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	56.1	32.3	25.3	23.8	13.6	10.6	54.9	31.9	25.0	96.27	97.96	97.92
UN04	GR240036	TP3291-1691079	4.16KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	56.1	32.3	25.3	23.8	13.6	10.6	54.9	31.9	25.0	96.23	97.93	97.91
UN04	GR240043	TN11407-16464314	4.16KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	39.1	39.1	39.1	16.6	16.4	16.5	38.5	38.5	38.5	96.80	97.59	97.35
UN04	GR240052	K01164-1659289	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			25.2			10.6			25.0			98.09
UN04	GR240057	X30963-1669248	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			98.15	
UN04	GR240059	X30962-1669249	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		24.1			10.1			31.9			98.17	
UN04	GR240061	X27613-1670506	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.9			17.6			54.9			97.21		
UN04	GR240069	K01279-1659382	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			7.9			25.0			98.88
UN04	GR240076	K01189-1659310	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			25.2			10.5			25.0			98.88

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
28F2	GR145639	11255290	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		566.7	1287.5	1099.8	118.0	268.0	229.0	19.7	44.7	38.2	100.00	100.00	100.00
28F2	GR145640	11255305	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		566.7	1287.5	1099.8	118.0	268.0	229.0	19.7	44.7	38.2	100.00	100.00	100.00
28F2	GR145641	11255319	8.32KV_3P_350_CU_XLPE	Cable	1.2	390.0000		566.7	1287.5	1099.8	118.0	268.0	229.0	30.3	68.7	58.7	100.00	100.00	100.00
28F2	GR145684	11359623	8.32KV_1P_2/0_AL_XLPE	Cable	105.8	220.0000				201.4			42.3			19.2			99.14
28F2	GR145689	11359658	8.32KV_1P_2/0_AL_XLPE	Cable	169.5	220.0000				185.0			38.8			17.7			99.03
28F2	GR145694	11360042	8.32KV_1P_2/0_AL_XLPE	Cable	134.9	220.0000				163.1			34.3			15.6			98.96
28F2	GR145699	11360146	8.32KV_1P_2/0_AL_XLPE	Cable	67.9	220.0000				152.2			32.0			14.6			98.93
28F2	GR145700	5512140	8.32KV_1P_2/0_AL_XLPE	Cable	197.9	220.0000				152.1			32.0			14.6			98.83
28F2	GR145705	5507633	8.32KV_1P_2/0_AL_XLPE	Cable	217.5	220.0000				130.3			27.5			12.5			98.74
28F2	GR145710	5511797	8.32KV_1P_2/0_AL_XLPE	Cable	70.8	220.0000				119.4			25.2			11.4			98.71
28F2	GR145715	5511944	8.32KV_1P_2/0_AL_XLPE	Cable	148.8	220.0000				108.5			22.9			10.4			98.66
28F2	GR145720	5511945	8.32KV_1P_2/0_AL_XLPE	Cable	133.7	220.0000				97.6			20.6			9.4			98.61
28F2	GR145725	5508607	8.32KV_1P_2/0_AL_XLPE	Cable	39.7	220.0000				86.7			18.3			8.3			98.60
28F2	GR145726	5508608	8.32KV_1P_2/0_AL_XLPE	Cable	157.6	220.0000				86.7			18.3			8.3			98.56
28F2	GR145731	5508609	8.32KV_1P_2/0_AL_XLPE	Cable	170.1	220.0000				65.0			13.7			6.2			98.52
28F2	GR145736	5509635	8.32KV_1P_2/0_AL_XLPE	Cable	153.1	220.0000				43.3			9.2			4.2			98.50
28F2	GR145741	5507948	8.32KV_1P_2/0_AL_XLPE	Cable	5.6	220.0000				21.7			4.6			2.1			98.50
28F2	GR145742	5509636	8.32KV_1P_2/0_AL_XLPE	Cable	107.3	220.0000				21.7			4.6			2.1			98.49
28F2	GR145747	5509637	8.32KV_1P_2/0_AL_XLPE	Cable	148.5	220.0000				0.0			0.0			0.0			98.49
28F2	GR145754	11331714	8.32KV_1P_2/0_AL_XLPE	Cable	6.7	220.0000				10.8			2.3			1.0			99.18
28F2	GR145755	11332703	8.32KV_1P_2/0_AL_XLPE	Cable	19.2	220.0000				10.8			2.3			1.0			99.18
28F2	GR145763	5508627	8.32KV_2P_2/0_AL_XLPE	Cable	102.7	265.0000		31.7	119.1		6.7	25.9		2.5	9.8		99.08	95.79	
28F2	GR145764	11331795	8.32KV_1P_2/0_AL_XLPE	Cable	2.4	220.0000		31.7			6.7			3.0			99.08		
28F2	GR145769	11331808	8.32KV_1P_2/0_AL_XLPE	Cable	140.7	220.0000		26.4			5.6			2.5			99.07		
28F2	GR145774	5508625	8.32KV_1P_2/0_AL_XLPE	Cable	259.8	220.0000		21.1			4.4			2.0			99.05		
28F2	GR145779	5511510	8.32KV_1P_2/0_AL_XLPE	Cable	147.1	220.0000		15.9			3.3			1.5			99.04		
28F2	GR145784	5511509	8.32KV_1P_2/0_AL_XLPE	Cable	140.4	220.0000		10.6			2.2			1.0			99.04		
28F2	GR145789	5511677	8.32KV_1P_2/0_AL_XLPE	Cable	163.5	220.0000		5.3			1.1			0.5			99.04		
28F2	GR145794	5513567	8.32KV_1P_2/0_AL_XLPE	Cable	173.3	220.0000		0.0			0.0			0.0			99.04		
28F2	GR145795	11331809	8.32KV_1P_2/0_AL_XLPE	Cable	84.8	220.0000			119.1			25.9			11.8			95.76	
28F2	GR145800	11358973	8.32KV_1P_2/0_AL_XLPE	Cable	117.5	220.0000			107.2			23.3			10.6			95.72	
28F2	GR145805	11358976	8.32KV_1P_2/0_AL_XLPE	Cable	146.1	220.0000			83.3			18.1			8.2			95.67	
28F2	GR145810	11331847	8.32KV_1P_2/0_AL_XLPE	Cable	143.8	220.0000			71.4			15.5			7.1			95.64	
28F2	GR145815	13139558	8.32KV_1P_1/0_AL_XLPE	Cable	266.3	220.0000			59.5			13.0			5.9			95.59	
28F2	GR145820	13080652	8.32KV_1P_1/0_AL_XLPE	Cable	229.2	220.0000			41.6			9.1			4.1			95.55	
28F2	GR145825	13080656	8.32KV_1P_1/0_AL_XLPE	Cable	122.4	220.0000			29.7			6.5			2.9			95.54	
28F2	GR145830	13080657	8.32KV_1P_1/0_AL_XLPE	Cable	270.9	220.0000			11.9			2.6			1.2			95.53	
28F2	GR145835	11335704	8.32KV_1P_1/0_AL_XLPE	Cable	114.5	220.0000			0.0			0.0			0.0			95.53	
28F2	GR145843	18147655	8.32KV_3P_1000_AL_XLPE	Cable	118.6	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.01	95.58	99.11
28F2	GR145867	11475798	8.32KV_3P_1000_AL_XLPE	Cable	130.4	455.0000		31.7	41.6	59.6	6.7	9.2	12.5	1.5	2.0	2.8	98.70	94.43	98.95
28F2	GR145868	11473090	8.32KV_3P_1000_AL_XLPE	Cable	118.4	455.0000		31.7	41.6	59.6	6.7	9.2	12.5	1.5	2.0	2.8	98.69	94.43	98.95
28F2	GR145869	13576339	8.32KV_3P_1/0_AL_XLPE	Cable	0.0	220.0000		31.7	41.6	59.6	6.7	9.2	12.5	3.0	4.2	5.7	98.69	94.43	98.95
28F2	GR145870	13576286	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		31.7	41.6	59.6	6.7	9.2	12.5	1.1	1.5	2.1	98.69	94.43	98.95
28F2	GR145871	11539360	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		31.7	41.6	59.6	6.7	9.2	12.5	1.1	1.5	2.1	98.69	94.43	98.95
28F2	GR145872	11539358	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		31.7	41.6	59.6	6.7	9.2	12.5	1.1	1.5	2.1	98.69	94.43	98.95
28F2	GR145873	11539355	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		31.7	41.6	59.6	6.7	9.2	12.5	1.1	1.5	2.1	98.69	94.43	98.95
28F2	GR145874	11539352	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000			41.6			9.2			1.5			94.43	
28F2	GR145875	13576299	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000			41.6			9.2			1.5			94.43	
28F2	GR145876	13576311	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000			41.6			9.2			4.2			94.43	
28F2	GR145877	13520460	8.32KV_1P_1/0_AL_XLPE	Cable	16.0	220.0000			41.6			9.2			4.2			94.42	
28F2	GR145878	11473128	8.32KV_1P_1/0_AL_TRXLPE	Cable	82.1	220.0000			41.6			9.2			4.2			94.41	
28F2	GR145883	11473131	8.32KV_1P_1/0_AL_TRXLPE	Cable	131.3	220.0000			29.7			6.6			3.0			94.40	
28F2	GR145888	11473134	8.32KV_1P_1/0_AL_TRXLPE	Cable	143.7	220.0000			17.8			3.9			1.8			94.39	
28F2	GR145889	11429724	8.32KV_1P_1/0_AL_XLPE	Cable	254.5	220.0000			17.8			3.9			1.8			94.37	
28F2	GR145894	5508671	8.32KV_1P_2/0_AL_XLPE	Cable	307.9	220.0000			0.0			0.0			0.0			94.37	
28F2	GR145895	11539353	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		31.7			6.7			1.1			98.69		
28F2	GR145896	13576298	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		31.7			6.7			1.1			98.69		
28F2	GR145897	13576310	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000		31.7			6.7			3.0			98.69		
28F2	GR145898	13520480	8.32KV_1P_1/0_AL_XLPE	Cable	17.5	220.0000		31.7			6.7			3.0			98.69		
28F2	GR145899	11473114	8.32KV_1P_1/0_AL_TRXLPE	Cable	296.7	220.0000		31.7			6.7			3.0			98.66		
28F2	GR145904	11473164	8.32KV_1P_1/0_AL_TRXLPE	Cable	127.1	220.0000		23.8			5.0			2.3			98.65		
28F2	GR145909	11473161	8.32KV_1P_1/0_AL_TRXLPE	Cable	133.1	220.0000		15.9			3.3			1.5			98.64		
28F2	GR145914	11473157	8.32KV_1P_1/0_AL_TRXLPE	Cable	183.8	220.0000		7.9			1.7			0.8			98.64		
28F2	GR145919	11473154	8.32KV_1P_1/0_AL_TRXLPE	Cable	359.7	220.0000		0.0			0.0			0.0			98.64		
28F2	GR145920	11539354	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000				59.6			12.5			2.1			98.95
28F2	GR145921	13576295	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000				59.6			12.5			2.1			98.95
28F2	GR145922	13577664	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000				59.6			12.5			5.7			98.95
28F2	GR145923	13577644	8.32KV_1P_1/0_AL_TRXLPE	Cable	117.0	220.0000				59.6			12.5			5.7			98.92
28F2	GR145924	11535213	8.32KV_1P_1/0_AL_TRXLPE	Cable	106.8	220.0000				59.6			12.5			5.7			98.90
28F2	GR145929	11533889	8.32KV_1P_1/0_AL_TRXLPE	Cable	139.3	220.0000				48.8			10.3			4.7			98.88
28F2	GR145934	13520440	8.32KV_1P_2/0_AL_XLPE	Cable	48.1	220.0000				27.1			5.7			2.6			98.88
28F2	GR145935	11534017	8.32KV_1P_1/0_AL_TRXLPE	Cable	132.7	220.0000				27.1			5.7			2.6			98.86
28F2	GR145940	11488908	8.32KV_1P_1/0_AL_TRXLPE	Cable	96.9	220.0000				16.2			3.4			1.6			98.86

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
28F2	GR145941	11429731	8.32KV_1P_1/0_AL_XLPE	Cable	74.2	220.0000				16.2			3.4			1.6			98.85
28F2	GR145946	13127019	8.32KV_1P_1/0_AL_TRXLPE	Cable	223.4	220.0000				0.0			0.0			0.0			98.85
28F2	GR145950	11539356	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.69	94.43	98.95
28F2	GR145951	13576297	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.69	94.43	98.95
28F2	GR145952	11539359	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.69	94.43	98.95
28F2	GR145953	13576293	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.69	94.43	98.95
28F2	GR145981	18175196	8.32KV_3P_1/0_AL_TRXLPE	Cable	34.9	220.0000		74.0	239.5	59.6	15.7	54.1	12.6	7.1	24.6	5.7	98.16	92.17	98.59
28F2	GR145982	18986962	8.32KV_2P_1/0_AL_TRXLPE	Cable	31.9	220.0000		74.0	239.4		15.7	54.1		7.1	24.6		98.16	92.14	
28F2	GR145983	18197902	8.32KV_1P_1/0_AL_TRXLPE	Cable	73.8	220.0000			239.3			54.1			24.6			92.08	
28F2	GR145988	16430871	8.32KV_1P_1/0_AL_TRXLPE	Cable	68.6	220.0000			215.4			48.7			22.1			92.03	
28F2	GR145993	16430867	8.32KV_1P_1/0_AL_TRXLPE	Cable	152.0	220.0000			191.5			43.3			19.7			91.92	
28F2	GR145998	16430859	8.32KV_1P_1/0_AL_TRXLPE	Cable	32.0	220.0000			167.4			37.9			17.2			91.90	
28F2	GR146003	16430850	8.32KV_1P_1/0_AL_TRXLPE	Cable	138.2	220.0000			143.6			32.5			14.8			91.83	
28F2	GR146008	16430835	8.32KV_1P_1/0_AL_TRXLPE	Cable	61.4	220.0000			119.7			27.1			12.3			91.81	
28F2	GR146013	16429182	8.32KV_1P_1/0_AL_TRXLPE	Cable	129.6	220.0000			95.9			21.7			9.9			91.76	
28F2	GR146018	16428336	8.32KV_1P_1/0_AL_TRXLPE	Cable	41.2	220.0000			72.1			16.3			7.4			91.75	
28F2	GR146023	16428335	8.32KV_1P_1/0_AL_TRXLPE	Cable	39.4	220.0000			48.3			10.9			5.0			91.75	
28F2	GR146028	18197922	8.32KV_1P_1/0_AL_TRXLPE	Cable	2.6	220.0000		74.0			15.7			7.1			98.16		
28F2	GR146033	16424372	8.32KV_1P_1/0_AL_TRXLPE	Cable	116.4	220.0000		63.5			13.5			6.1			98.14		
28F2	GR146038	16427816	8.32KV_1P_1/0_AL_TRXLPE	Cable	127.6	220.0000		52.9			11.2			5.1			98.12		
28F2	GR146043	16429068	8.32KV_1P_1/0_AL_TRXLPE	Cable	143.5	220.0000		42.3			9.0			4.1			98.10		
28F2	GR146048	16429069	8.32KV_1P_1/0_AL_TRXLPE	Cable	119.1	220.0000		31.7			6.7			3.1			98.08		
28F2	GR146053	16429070	8.32KV_1P_1/0_AL_TRXLPE	Cable	33.7	220.0000		21.1			4.5			2.0			98.08		
28F2	GR146058	16429065	8.32KV_1P_1/0_AL_TRXLPE	Cable	33.7	220.0000		10.6			2.2			1.0			98.08		
28F2	GR146062	18986965	8.32KV_1P_1/0_AL_TRXLPE	Cable	119.1	220.0000				59.6			12.6			5.7			98.56
28F2	GR146063	18175210	8.32KV_1P_1/0_AL_TRXLPE	Cable	330.0	220.0000				59.6			12.6			5.7			98.50
28F2	GR146068	18175426	8.32KV_1P_1/0_AL_TRXLPE	Cable	105.9	220.0000				43.3			9.2			4.2			98.48
28F2	GR146073	18175615	8.32KV_1P_1/0_AL_TRXLPE	Cable	91.5	220.0000				21.7			4.6			2.1			98.48
28F2	GR146078	18175653	8.32KV_1P_1/0_AL_TRXLPE	Cable	68.4	220.0000				0.0			0.0			0.0			98.48
28F2	GR146101	18176912	8.32KV_3P_1000_AL_XLPE	Cable	206.2	455.0000		0.0	166.5	141.2	0.0	37.6	29.8	0.0	8.3	6.6	98.18	92.10	98.53
28F2	GR146102	18175203	8.32KV_3P_1000_AL_XLPE	Cable	125.1	455.0000		0.0	166.4	141.2	0.0	37.6	29.8	0.0	8.3	6.6	98.18	92.08	98.51
28F2	GR146103	18175395	8.32KV_3P_1/0_AL_XLPE	Cable	0.0	220.0000		0.0	166.4	141.2	0.0	37.6	29.8	0.0	17.1	13.6	98.18	92.08	98.51
28F2	GR146104	18175384	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	166.4	141.2	0.0	37.6	29.8	0.0	6.3	5.0	98.18	92.08	98.51
28F2	GR146105	18175371	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	166.4	141.2	0.0	37.6	29.8	0.0	6.3	5.0	98.18	92.08	98.51
28F2	GR146106	18175372	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	166.4	141.2	0.0	37.6	29.8	0.0	6.3	5.0	98.18	92.08	98.51
28F2	GR146107	18175374	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.18	92.08	98.51
28F2	GR146108	18175373	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			98.18		
28F2	GR146109	18175387	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			98.18		
28F2	GR146110	18175376	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000			0.0			0.0			0.0			92.08	
28F2	GR146111	18175380	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000			0.0			0.0			0.0			92.08	
28F2	GR146112	18175386	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000				0.0			0.0			0.0			98.51
28F2	GR146113	18175381	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000				0.0			0.0			0.0			98.51
28F2	GR146114	18175375	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	166.4	141.2	0.0	37.6	29.8	0.0	6.3	5.0	98.18	92.08	98.51
28F2	GR146115	18175377	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			98.18		
28F2	GR146116	18175382	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			98.18		
28F2	GR146117	18175378	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000				141.2			29.8			5.0			98.51
28F2	GR146118	18175388	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000				141.2			29.8			5.0			98.51
28F2	GR146119	18175396	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000				141.2			29.8			13.6			98.51
28F2	GR146120	18175206	8.32KV_1P_1/0_AL_TRXLPE	Cable	300.7	220.0000				141.2			29.8			13.6			98.37
28F2	GR146121	18175208	8.32KV_1P_1/0_AL_TRXLPE	Cable	60.9	220.0000				141.0			29.8			13.6			98.34
28F2	GR146126	18175627	8.32KV_1P_1/0_AL_TRXLPE	Cable	98.1	220.0000				124.7			26.4			12.0			98.30
28F2	GR146131	18175632	8.32KV_1P_1/0_AL_TRXLPE	Cable	29.0	220.0000				103.0			21.8			9.9			98.29
28F2	GR146136	18177027	8.32KV_1P_1/0_AL_TRXLPE	Cable	164.2	220.0000				81.3			17.2			7.8			98.24
28F2	GR146141	18177031	8.32KV_1P_1/0_AL_TRXLPE	Cable	34.5	220.0000				59.6			12.6			5.7			98.24
28F2	GR146146	18177029	8.32KV_1P_1/0_AL_TRXLPE	Cable	82.6	220.0000				37.9			8.0			3.7			98.23
28F2	GR146151	18175649	8.32KV_1P_1/0_AL_TRXLPE	Cable	64.0	220.0000				21.7			4.6			2.1			98.22
28F2	GR146153	18175379	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000			166.4			37.6			6.3			92.08	
28F2	GR146154	18175383	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000			166.4			37.6			6.3			92.08	
28F2	GR146155	18999398	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000			166.4			37.6			17.1			92.08	
28F2	GR146156	18999364	8.32KV_1P_1/0_AL_TRXLPE	Cable	208.5	220.0000			166.4			37.6			17.1			91.96	
28F2	GR146161	16427635	8.32KV_1P_1/0_AL_TRXLPE	Cable	57.5	220.0000			142.3			32.2			14.6			91.93	
28F2	GR146166	19033254	8.32KV_1P_1/0_AL_TRXLPE	Cable	277.8	220.0000			118.5			26.8			12.2			91.81	
28F2	GR146171	16431001	8.32KV_1P_1/0_AL_TRXLPE	Cable	103.6	220.0000			94.6			21.4			9.7			91.78	
28F2	GR146176	16431000	8.32KV_1P_1/0_AL_TRXLPE	Cable	93.0	220.0000			70.7			16.0			7.3			91.76	
28F2	GR146181	16430999	8.32KV_1P_1/0_AL_TRXLPE	Cable	81.3	220.0000			46.9			10.6			4.8			91.74	
28F2	GR146186	16430974	8.32KV_1P_1/0_AL_TRXLPE	Cable	40.6	220.0000			23.1			5.2			2.4			91.74	
28F2	GR146191	16428064	8.32KV_1P_1/0_AL_TRXLPE	Cable	224.5	220.0000			0.9			0.2			0.1			91.74	
28F2	GR146196	16428070	8.32KV_1P_1/0_AL_TRXLPE	Cable	112.1	220.0000			24.5			5.6			2.5			91.75	
28F2	GR146197	18175385	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.18	92.08	98.51
28F2	GR146198	18175389	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.18	92.08	98.51
28F2	GR146200	18180695	8.32KV_1P_1/0_AL_TRXLPE	Cable	83.6	220.0000		29.1			6.2			2.8			98.18		
28F2	GR146201	18179302	8.32KV_1P_1/0_AL_TRXLPE	Cable	21.2	220.0000		29.1			6.2			2.8			98.18		
28F2	GR146206	18198177	8.32KV_1P_1/0_AL_TRXLPE	Cable	112.3	220.0000		21.1			4.5			2.0			98.17		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
28F2	GR146211	18198226	8.32KV_1P_1/0_AL_TRXLPE	Cable	73.5	220.0000		10.6			2.2			1.0			98.17		
28F2	GR146212	18198233	8.32KV_1P_1/0_AL_TRXLPE	Cable	40.8	220.0000		10.6			2.2			1.0			98.17		
28F2	GR146218	18180701	8.32KV_3P_1/0_AL_TRXLPE	Cable	22.2	220.0000		53.0	183.0	90.4	11.2	41.2	19.1	5.1	18.7	8.7	98.22	92.47	98.64
28F2	GR146219	18180702	8.32KV_1P_1/0_AL_TRXLPE	Cable	20.2	220.0000				90.4			19.1			8.7			98.63
28F2	GR146224	18197499	8.32KV_1P_1/0_AL_TRXLPE	Cable	92.1	220.0000				74.1			15.6			7.1			98.61
28F2	GR146225	18197481	8.32KV_1P_1/0_AL_TRXLPE	Cable	152.0	220.0000				74.1			15.6			7.1			98.57
28F2	GR146230	18197062	8.32KV_1P_1/0_AL_TRXLPE	Cable	82.6	220.0000				57.9			12.2			5.6			98.56
28F2	GR146235	18197023	8.32KV_1P_1/0_AL_TRXLPE	Cable	22.0	220.0000				21.7			4.6			2.1			98.56
28F2	GR146240	18197695	8.32KV_1P_1/0_AL_TRXLPE	Cable	111.5	220.0000				0.0			0.0			0.0			98.56
28F2	GR146241	18197941	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000				0.0			0.0			0.0			98.56
28F2	GR146243	18180703	8.32KV_1P_1/0_AL_TRXLPE	Cable	31.5	220.0000			183.0			41.2			18.7			92.45	
28F2	GR146248	18180714	8.32KV_1P_1/0_AL_TRXLPE	Cable	145.8	220.0000			143.2			32.2			14.7			92.38	
28F2	GR146249	18180715	8.32KV_1P_1/0_AL_TRXLPE	Cable	54.2	220.0000			143.1			32.2			14.7			92.35	
28F2	GR146254	18181420	8.32KV_1P_1/0_AL_TRXLPE	Cable	119.0	220.0000			103.3			23.3			10.6			92.31	
28F2	GR146259	18181301	8.32KV_1P_1/0_AL_TRXLPE	Cable	11.7	220.0000			63.5			14.3			6.5			92.31	
28F2	GR146264	18181332	8.32KV_1P_1/0_AL_TRXLPE	Cable	105.6	220.0000			23.8			5.4			2.4			92.30	
28F2	GR146269	18197975	8.32KV_1P_1/0_AL_TRXLPE	Cable	38.2	220.0000			0.0			0.0			0.0			92.30	
28F2	GR146270	18197940	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000			0.0			0.0			0.0			92.30	
28F2	GR146272	18197588	8.32KV_1P_1/0_AL_TRXLPE	Cable	113.9	220.0000		53.0			11.2			5.1			98.20		
28F2	GR146273	18197589	8.32KV_1P_1/0_AL_TRXLPE	Cable	77.3	220.0000		53.0			11.2			5.1			98.19		
28F2	GR146278	18198396	8.32KV_1P_1/0_AL_TRXLPE	Cable	180.1	220.0000		35.3			7.5			3.4			98.16		
28F2	GR146283	18198390	8.32KV_1P_1/0_AL_TRXLPE	Cable	19.5	220.0000		17.7			3.7			1.7			98.16		
28F2	GR146288	18198271	8.32KV_1P_1/0_AL_TRXLPE	Cable	85.3	220.0000		0.0			0.0			0.0			98.16		
28F2	GR146290	5508035	8.32KV_1P_1/0_AL_XLPE	Cable	139.2	220.0000				43.3			9.1			4.1			98.80
28F2	GR146295	5508034	8.32KV_1P_2/0_AL_XLPE	Cable	103.3	220.0000				21.7			4.6			2.1			98.80
28F2	GR146300	5508032	8.32KV_1P_2/0_AL_XLPE	Cable	129.2	220.0000				0.0			0.0			0.0			98.80
28F2	GR146346	5509191	8.32KV_1P_2/0_AL_XLPE	Cable	83.9	220.0000				0.0			0.0			0.0			98.89
28F2	GR146350	5507507	8.32KV_1P_2/0_AL_XLPE	Cable	105.1	220.0000				21.7			4.6			2.1			98.89
28F2	GR146469	5508494	8.32KV_1P_2/0_AL_XLPE	Cable	17.4	220.0000				0.0			0.0			0.0			98.92
28F2	GR146475	5508334	8.32KV_1P_2/0_AL_XLPE	Cable	24.6	220.0000				21.7			4.6			2.1			98.91
28F2	GR146481	5508333	8.32KV_1P_2/0_AL_XLPE	Cable	62.8	220.0000				10.8			2.3			1.0			98.91
28F2	GR146546	5508183	8.32KV_1P_2/0_AL_XLPE	Cable	80.0	220.0000		10.6			2.2			1.0			98.45		
28F2	GR146576	5508132	8.32KV_3P_2/0_AL_XLPE	Cable	70.2	265.0000		10.6	23.8	21.7	2.2	5.3	4.6	0.8	2.0	1.7	98.49	93.80	98.91
28F2	GR146581	5559510	8.32KV_1P_2/0_AL_XLPE	Cable	35.9	220.0000				43.3			9.1			4.1			98.91
28F2	GR146586	5508031	8.32KV_1P_2/0_AL_XLPE	Cable	119.3	220.0000				21.7			4.6			2.1			98.90
28F2	GR146685	5509090	8.32KV_3P_2/0_AL_XLPE	Cable	107.9	265.0000		31.7	65.5	108.6	6.7	14.5	22.8	2.5	5.5	8.6	98.61	94.12	98.94
28F2	GR146686	5509057	8.32KV_1P_2/0_AL_XLPE	Cable	289.4	220.0000			65.5			14.5			6.6			94.05	
28F2	GR146691	5508667	8.32KV_1P_2/0_AL_XLPE	Cable	139.8	220.0000			53.5			11.9			5.4			94.03	
28F2	GR146696	5508668	8.32KV_1P_2/0_AL_XLPE	Cable	206.9	220.0000			35.7			7.9			3.6			94.00	
28F2	GR146701	5508669	8.32KV_1P_2/0_AL_XLPE	Cable	144.6	220.0000			23.8			5.3			2.4			93.99	
28F2	GR146706	5508670	8.32KV_1P_2/0_AL_XLPE	Cable	106.1	220.0000			11.9			2.6			1.2			93.99	
28F2	GR146711	5509694	8.32KV_1P_2/0_AL_XLPE	Cable	173.6	220.0000				108.5			22.8			10.4			98.88
28F2	GR146716	5509058	8.32KV_1P_2/0_AL_XLPE	Cable	294.1	220.0000				97.6			20.6			9.3			98.78
28F2	GR146721	14678055	8.32KV_1P_1/0_AL_TRXLPE	Cable	144.6	220.0000				81.3			17.1			7.8			98.74
28F2	GR146726	14677979	8.32KV_1P_1/0_AL_TRXLPE	Cable	77.0	220.0000				65.0			13.7			6.2			98.73
28F2	GR146731	14677846	8.32KV_1P_1/0_AL_TRXLPE	Cable	148.2	220.0000				48.8			10.3			4.7			98.70
28F2	GR146736	14677781	8.32KV_1P_1/0_AL_TRXLPE	Cable	108.0	220.0000				32.5			6.9			3.1			98.69
28F2	GR146741	13127018	8.32KV_1P_1/0_AL_TRXLPE	Cable	100.6	220.0000				16.2			3.4			1.6			98.69
28F2	GR146743	5509696	8.32KV_1P_2/0_AL_XLPE	Cable	3.6	220.0000		31.7			6.7			3.0			98.61		
28F2	GR146748	5509695	8.32KV_1P_2/0_AL_XLPE	Cable	575.8	220.0000		23.8			5.0			2.3			98.57		
28F2	GR146753	11429761	8.32KV_1P_1/0_AL_XLPE	Cable	200.9	220.0000		15.9			3.3			1.5			98.56		
28F2	GR146758	11429760	8.32KV_1P_1/0_AL_XLPE	Cable	117.0	220.0000		7.9			1.7			0.8			98.55		
28F2	GR146764	5508682	8.32KV_3P_2/0_AL_XLPE	Cable	20.5	265.0000		23.2	23.3	23.2	4.9	5.1	4.9	1.9	1.9	1.8	98.66	94.32	98.97
28F2	GR146769	5508664	8.32KV_3P_2/0_AL_XLPE	Cable	119.1	265.0000		21.2	47.7	43.4	4.5	10.5	9.1	1.7	4.0	3.4	98.69	94.39	98.97
28F2	GR146774	5508665	8.32KV_3P_2/0_AL_XLPE	Cable	66.2	265.0000		10.6	23.8	21.7	2.2	5.3	4.6	0.8	2.0	1.7	98.68	94.39	98.96
28F2	GR146780	5509256	8.32KV_3P_2/0_AL_XLPE	Cable	180.3	265.0000		28.0	28.2	38.5	5.9	6.2	8.1	2.2	2.3	3.1	98.74	94.64	98.99
28F2	GR146781	5510394	8.32KV_3P_2/0_AL_XLPE	Cable	1.0	265.0000		28.0	28.2	38.5	5.9	6.2	8.1	2.2	2.3	3.1	98.74	94.64	98.99
28F2	GR146782	5510350	8.32KV_3P_2/0_AL_XLPE	Cable	1.0	265.0000		28.0	28.2	38.5	5.9	6.2	8.1	2.2	2.3	3.1	98.74	94.64	98.99
28F2	GR146783	5556999	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		28.0	28.2	38.5	5.9	6.2	8.1	1.0	1.0	1.3	98.74	94.64	98.99
28F2	GR146784	5556998	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		28.0	28.2	38.5	5.9	6.2	8.1	1.0	1.0	1.3	98.74	94.64	98.99
28F2	GR146785	5557000	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		28.0	28.2	38.5	5.9	6.2	8.1	1.0	1.0	1.3	98.74	94.64	98.99
28F2	GR146786	5562247	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		28.0	28.2	38.5	5.9	6.2	8.1	1.0	1.0	1.3	98.74	94.64	98.99
28F2	GR146790	15615575	8.32KV_3P_1000_AL_XLPE	Cable	79.3	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.84	94.96	99.04
28F2	GR146873	15611770	8.32KV_3P_1/0_AL_XLPE	Cable	9.6	220.0000		55.1	55.1	55.1	11.6	12.0	11.6	5.3	5.5	5.3	99.01	95.57	99.11
28F2	GR146879	18102975	8.32KV_3P_1000_AL_XLPE	Cable	33.9	455.0000		5.3	11.9	10.8	1.1	2.5	2.3	0.2	0.5	0.5	99.95	99.73	99.93
28F2	GR146880	18016044	BUS8.32KV_3P_0A__AIR	Cable	0.1	600.0000		5.3	11.9	10.8	1.1	2.5	2.3	0.2	0.4	0.4	99.95	99.73	99.93
28F2	GR145642	5511042	8.32KV_3P_Y336_AL	Overhead Line	4.8	530.0000		566.7	1287.5	1099.8	118.0	268.0	229.0	22.3	50.6	43.2	100.00	99.99	100.00
28F2	GR145643	5511041	8.32KV_3P_Y336_AL	Overhead Line	5.9	530.0000		566.7	1287.4	1099.7	118.0	268.0	229.0	22.3	50.6	43.2	99.99	99.97	99.99
28F2	GR145644	5511040	8.32KV_3P_Y336_AL	Overhead Line	26.3	530.0000		566.7	1287.2	1099.7	118.0	268.0	229.0	22.3	50.6	43.2	99.98	99.90	99.98
28F2	GR145645	16356878	8.32KV_3P_Y556_AL	Overhead Line	38.6	530.0000		566.6	1286.3	1099.5	118.0	268.0	229.0	22.3	50.6	43.2	99.96	99.80	99.95
28F2	GR145646	16365060	8.32KV_3P_Y556_AL	Overhead Line	6.2	530.0000		566.5	1285.0	1099.3	118.0	268.0	229.0	22.3	50.6	43.2	99.96	99.79	99.95
28F2	GR145647	16356982	8.32KV_3P_Y556_AL	Overhead Line	5.4	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.96	99.79	99.95
28F2	GR145648	16365056	8.32KV_3P_Y556_AL	Overhead Line	21.9	530.0000		566.5	1284.8	1099.2	118.0	268.0	229.0	22.3	50.6	43.2	99.95	99.73	99.93

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
28F2	GR145649	16365049	8.32KV_3P_Y556_AL	Overhead Line	35.7	530.0000		561.2	1272.2	1088.2	116.9	265.6	226.7	22.1	50.1	42.8	99.93	99.64	99.91
28F2	GR145650	16365025	8.32KV_3P_Y556_AL	Overhead Line	24.5	530.0000		561.1	1271.1	1088.0	116.9	265.6	226.7	22.1	50.1	42.8	99.92	99.58	99.90
28F2	GR145651	16365019	8.32KV_3P_Y556_AL	Overhead Line	32.8	530.0000		561.0	1270.3	1087.8	116.9	265.6	226.7	22.1	50.1	42.8	99.91	99.50	99.88
28F2	GR145652	16365014	8.32KV_3P_Y556_AL	Overhead Line	32.6	530.0000		560.9	1269.2	1087.6	116.9	265.6	226.7	22.1	50.1	42.8	99.89	99.41	99.86
28F2	GR145653	16365009	8.32KV_3P_Y556_AL	Overhead Line	33.0	530.0000		560.9	1268.2	1087.4	116.9	265.6	226.7	22.1	50.1	42.8	99.88	99.33	99.84
28F2	GR145654	16364998	8.32KV_3P_Y556_AL	Overhead Line	31.4	530.0000		560.8	1267.1	1087.2	116.9	265.6	226.7	22.1	50.1	42.8	99.86	99.25	99.82
28F2	GR145655	16364992	8.32KV_3P_Y556_AL	Overhead Line	33.2	530.0000		560.7	1266.1	1087.0	116.9	265.6	226.7	22.1	50.1	42.8	99.85	99.17	99.80
28F2	GR145656	16364987	8.32KV_3P_Y556_AL	Overhead Line	32.5	530.0000		560.6	1265.0	1086.8	116.9	265.6	226.7	22.1	50.1	42.8	99.83	99.09	99.78
28F2	GR145657	16364976	8.32KV_3P_Y556_AL	Overhead Line	33.2	530.0000		560.5	1264.0	1086.6	116.9	265.6	226.7	22.1	50.1	42.8	99.82	99.00	99.76
28F2	GR145658	16364972	8.32KV_3P_Y556_AL	Overhead Line	32.9	530.0000		560.4	1262.9	1086.3	116.9	265.6	226.7	22.1	50.1	42.8	99.80	98.92	99.74
28F2	GR145659	16364968	8.32KV_3P_Y556_AL	Overhead Line	32.7	530.0000		560.3	1261.9	1086.1	116.9	265.6	226.7	22.1	50.1	42.8	99.79	98.84	99.72
28F2	GR145660	16364962	8.32KV_3P_Y556_AL	Overhead Line	32.8	530.0000		560.3	1260.8	1085.9	116.9	265.6	226.7	22.1	50.1	42.8	99.77	98.75	99.70
28F2	GR145661	16364957	8.32KV_3P_Y556_AL	Overhead Line	32.3	530.0000		560.2	1259.7	1085.7	116.9	265.6	226.7	22.1	50.1	42.8	99.75	98.67	99.68
28F2	GR145662	16364953	8.32KV_3P_Y556_AL	Overhead Line	32.2	530.0000		560.1	1258.7	1085.5	116.9	265.6	226.7	22.1	50.1	42.8	99.74	98.59	99.66
28F2	GR145663	16364947	8.32KV_3P_Y556_AL	Overhead Line	23.8	530.0000		560.0	1257.7	1085.3	116.9	265.6	226.7	22.1	50.1	42.8	99.73	98.53	99.64
28F2	GR145664	15611268	8.32KV_3P_Y556_AL	Overhead Line	2.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.73	98.53	99.64
28F2	GR145665	15611580	8.32KV_3P_Y556_AL	Overhead Line	67.8	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.73	98.53	99.64
28F2	GR145666	5511046	8.32KV_3P_Y336_AL	Overhead Line	71.8	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.73	98.53	99.64
28F2	GR145667	18012182	8.32KV_3P_Y556_AL	Overhead Line	25.5	530.0000		560.0	1256.9	1085.1	116.9	265.6	226.7	22.1	50.1	42.8	99.72	98.47	99.63
28F2	GR145668	15611293	8.32KV_3P_Y556_AL	Overhead Line	41.6	530.0000		559.9	1256.1	1085.0	116.9	265.6	226.7	22.1	50.1	42.8	99.70	98.36	99.60
28F2	GR145669	15615709	8.32KV_3P_Y556_AL	Overhead Line	8.4	530.0000		559.8	1254.8	1084.7	116.9	265.6	226.7	22.1	50.1	42.8	99.69	98.34	99.60
28F2	GR145670	15611296	8.32KV_3P_Y556_AL	Overhead Line	52.0	530.0000		559.8	1254.5	1084.6	116.9	265.6	226.7	22.1	50.1	42.8	99.67	98.21	99.57
28F2	GR145671	15611299	8.32KV_3P_Y556_AL	Overhead Line	52.2	530.0000		559.6	1252.8	1084.3	116.9	265.6	226.7	22.1	50.1	42.8	99.64	98.08	99.54
28F2	GR145672	15611301	8.32KV_3P_Y556_AL	Overhead Line	55.9	530.0000		559.5	1251.2	1084.0	116.9	265.6	226.7	22.1	50.1	42.8	99.62	97.94	99.51
28F2	GR145673	15611311	8.32KV_3P_Y556_AL	Overhead Line	45.1	530.0000		559.3	1249.4	1083.6	116.9	265.6	226.7	22.1	50.1	42.8	99.60	97.83	99.48
28F2	GR145674	15611314	8.32KV_3P_Y556_AL	Overhead Line	41.3	530.0000		559.2	1247.9	1083.3	116.9	265.6	226.7	22.1	50.1	42.8	99.58	97.72	99.46
28F2	GR145675	15611315	8.32KV_3P_Y556_AL	Overhead Line	38.7	530.0000		559.1	1246.6	1083.1	116.9	265.6	226.7	22.1	50.1	42.8	99.56	97.63	99.43
28F2	GR145676	15656929	8.32KV_3P_Y556_AL	Overhead Line	46.7	530.0000		559.0	1245.4	1082.8	116.9	265.6	226.7	22.1	50.1	42.8	99.54	97.51	99.41
28F2	GR145677	16438407	8.32KV_3P_Y556_AL	Overhead Line	56.3	530.0000		558.9	1243.9	1082.5	116.9	265.6	226.7	22.1	50.1	42.8	99.51	97.37	99.37
28F2	GR145678	15611320	8.32KV_3P_Y556_AL	Overhead Line	54.1	530.0000		558.8	1242.1	1082.2	116.9	265.6	226.7	22.1	50.1	42.8	99.49	97.23	99.34
28F2	GR145679	15611321	8.32KV_3P_Y556_AL	Overhead Line	51.1	530.0000		558.6	1240.4	1081.8	116.9	265.6	226.7	22.1	50.1	42.8	99.46	97.10	99.31
28F2	GR145680	15611322	8.32KV_3P_Y556_AL	Overhead Line	55.7	530.0000		558.5	1238.7	1081.5	116.9	265.6	226.7	22.1	50.1	42.8	99.44	96.97	99.28
28F2	GR145681	15611323	8.32KV_3P_Y556_AL	Overhead Line	58.5	530.0000		558.3	1237.0	1081.2	116.9	265.6	226.7	22.1	50.1	42.8	99.41	96.82	99.25
28F2	GR145682	15611326	8.32KV_3P_Y556_AL	Overhead Line	43.9	530.0000		558.2	1235.1	1080.8	116.9	265.6	226.7	22.1	50.1	42.8	99.39	96.71	99.22
28F2	GR145683	15611073	8.32KV_1P_Y2/0_AL	Overhead Line	27.3	270.0000				201.4			42.3			15.7			99.21
28F2	GR145748	15611332	8.32KV_3P_Y556_AL	Overhead Line	50.2	530.0000		558.1	1233.7	879.2	116.9	265.6	184.5	22.1	50.1	34.8	99.35	96.60	99.21
28F2	GR145749	15611336	8.32KV_3P_Y556_AL	Overhead Line	50.9	530.0000		557.9	1232.3	879.1	116.9	265.6	184.5	22.1	50.1	34.8	99.31	96.48	99.20
28F2	GR145750	15611339	8.32KV_3P_Y556_AL	Overhead Line	48.1	530.0000		557.6	1230.8	879.1	116.9	265.6	184.5	22.1	50.1	34.8	99.27	96.37	99.19
28F2	GR145751	15611342	8.32KV_3P_Y556_AL	Overhead Line	35.1	530.0000		557.4	1229.3	879.0	116.9	265.6	184.5	22.1	50.1	34.8	99.25	96.29	99.19
28F2	GR145752	15611344	8.32KV_3P_Y556_AL	Overhead Line	49.4	530.0000		557.3	1228.3	878.9	116.9	265.6	184.5	22.1	50.1	34.8	99.21	96.17	99.18
28F2	GR145753	11234643	8.32KV_1P_Y2/0_AL	Overhead Line	6.7	270.0000				10.8			2.3			0.8			99.18
28F2	GR145759	15611347	8.32KV_3P_Y556_AL	Overhead Line	47.8	530.0000		557.1	1226.9	868.0	116.9	265.6	182.2	22.1	50.1	34.4	99.17	96.06	99.17
28F2	GR145760	15611348	8.32KV_3P_Y556_AL	Overhead Line	51.9	530.0000		556.8	1225.5	867.9	116.9	265.6	182.2	22.1	50.1	34.4	99.13	95.95	99.16
28F2	GR145761	15611349	8.32KV_3P_Y556_AL	Overhead Line	49.3	530.0000		556.6	1224.0	867.9	116.9	265.6	182.2	22.1	50.1	34.4	99.09	95.83	99.15
28F2	GR145762	15611654	8.32KV_2P_N1/0_AL	Overhead Line	25.2	230.0000		31.7	119.2		6.7	25.9		2.9	11.3		99.08	95.83	
28F2	GR145836	18139267	8.32KV_3P_Y556_AL	Overhead Line	37.5	530.0000		524.7	1103.4	867.8	110.2	239.7	182.2	20.8	45.2	34.4	99.06	95.75	99.14
28F2	GR145837	15611359	8.32KV_3P_Y556_AL	Overhead Line	40.3	530.0000		524.6	1102.5	867.7	110.2	239.7	182.2	20.8	45.2	34.4	99.04	95.67	99.13
28F2	GR145838	15611360	8.32KV_3P_Y556_AL	Overhead Line	44.5	530.0000		524.4	1101.6	867.6	110.2	239.7	182.2	20.8	45.2	34.4	99.01	95.58	99.11
28F2	GR145839	15611550	8.32KV_3P_Y556_AL	Overhead Line	15.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.01	95.58	99.11
28F2	GR145840	15611542	8.32KV_3P_Y556_AL	Overhead Line	3.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.01	95.58	99.11
28F2	GR145841	15611543	8.32KV_3P_Y556_AL	Overhead Line	28.5	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.01	95.58	99.11
28F2	GR145842	15611544	8.32KV_3P_Y556_AL	Overhead Line	5.2	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.01	95.58	99.11
28F2	GR145844	18147672	8.32KV_3P_Y556_AL	Overhead Line	38.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.01	95.58	99.11
28F2	GR145845	15615521	8.32KV_3P_Y556_AL	Overhead Line	61.4	530.0000		469.6	1046.0	813.0	98.7	227.8	170.8	18.6	43.0	32.2	98.98	95.45	99.10
28F2	GR145846	15615519	8.32KV_3P_Y556_AL	Overhead Line	60.0	530.0000		469.4	1044.7	812.9	98.7	227.8	170.8	18.6	43.0	32.2	98.94	95.33	99.08
28F2	GR145847	15615517	8.32KV_3P_Y556_AL	Overhead Line	40.0	530.0000		469.3	1043.4	812.7	98.7	227.8	170.8	18.6	43.0	32.2	98.92	95.25	99.07
28F2	GR145848	15615514	8.32KV_3P_Y556_AL	Overhead Line	39.3	530.0000		469.1	1042.5	812.7	98.7	227.8	170.8	18.6	43.0	32.2	98.90	95.17	99.06
28F2	GR145849	15615512	8.32KV_3P_Y556_AL	Overhead Line	47.5	530.0000		469.0	1041.6	812.6	98.7	227.8	170.8	18.6	43.0	32.2	98.87	95.08	99.05
28F2	GR145850	15615510	8.32KV_3P_Y556_AL	Overhead Line	18.8	530.0000		468.9	1040.6	812.5	98.7	227.8	170.8	18.6	43.0	32.2	98.86	95.04	99.05
28F2	GR145851	15615508	8.32KV_3P_Y556_AL	Overhead Line	24.4	530.0000		468.9	1040.2	812.5	98.7	227.8	170.8	18.6	43.0	32.2	98.85	94.99	99.04
28F2	GR145852	15615507	8.32KV_3P_Y556_AL	Overhead Line	17.3	530.0000		468.8	1039.6	812.4	98.7	227.8	170.8	18.6	43.0	32.2	98.84	94.96	99.04
28F2	GR145853	15615505	8.32KV_3P_Y556_AL	Overhead Line	29.6	530.0000		468.8	1039.3	812.4	98.7	227.8	170.8	18.6	43.0	32.2	98.82	94.90	99.03
28F2	GR145854	15615503	8.32KV_3P_Y556_AL	Overhead Line	29.2	530.0000		468.7	1038.6	812.3	98.7	227.8	170.8	18.6	43.0	32.2	98.81	94.84	99.02
28F2	GR145855	15615501	8.32KV_3P_Y556_AL	Overhead Line	25.0	530.0000		468.6	1038.0	812.3	98.7	227.8	170.8	18.6	43.0	32.2	98.79	94.79	99.02
28F2	GR145856	15615499	8.32KV_3P_Y556_AL	Overhead Line	41.7	530.0000		468.5	1037.4	812.2	98.7	227.8	170.8	18.6	43.0	32.2	98.77	94.71	99.01
28F2	GR145857	15615497	8.32KV_3P_Y556_AL	Overhead Line	28.0	530.0000		468.4	1036.5	812.1	98.7	227.8	170.8	18.6	43.0	32.2	98.75	94.65	99.00
28F2	GR145858	15615495	8.32KV_3P_Y556_AL	Overhead Line	34.2	530.0000		440.9	1008.5	773.6	92.9	221.8	162.7	17.5	41.9	30.7	98.74	94.58	98.99
28F2	GR145859	16478388	8.32KV_3P_Y556_AL	Overhead Line	53.0	530.0000		440.8	1007.8	773.6	92.9	221.8	162.7	17.5	41.9	30.7	98.71	94.48	98.98
28F2	GR145860	15615492	8.32KV_3P_Y556_AL	Overhead Line	8.0	530.0000		440.7	1006.7	773.5	92.9	221.8	162.7	17.5	41.9	30.7	98.70	94.46	98.98
28F2	GR145861	15615473	8.32KV_3P_Y556_AL	Overhead Line	35.2	530.0000		39.6	59.5	75.9	8.4	13.1	16.0	1.6	2.5	3.0	98.70	94.46	98.98
28F2	GR145862	15615522	8.32KV_3P_Y556_AL	Overhead Line	43.3	530.0000		39.7	59.5	75.9	8.4	13.1	16.0	1.6	2.5	3.0	98.70	94.45	98.98
28F2	GR145863	15615523	8.32KV_3P_Y556_AL	Overhead Line	40.6	530.0000		39.7	59.5	75.9	8.4	13.1	16.0	1.6	2.5	3.0	98.70	94.45	98.97
28F2	GR145864	15615524	8.32KV_3P_Y556_AL	Overhead Line	59.3	530.0000		37.0	53.5	70.5	7.8	11.8	14.8	1.5	2.2	2.8	98.70	94.44	98.97

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
28F2	GR145865	15615525	8.32KV_3P_Y556_AL	Overhead Line	60.8	530.0000		31.7	41.6	59.6	6.7	9.2	12.5	1.3	1.7	2.4	98.70	94.44	98.96
28F2	GR145866	11473089	DEFAULT	Overhead Line	8.9	1000.0000		31.7	41.6	59.6	6.7	9.2	12.5	0.7	0.9	1.3	98.70	94.43	98.96
28F2	GR145954	16466031	8.32KV_3P_Y556_AL	Overhead Line	1.3	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.70	94.44	98.96
28F2	GR145959	15615490	8.32KV_3P_Y556_AL	Overhead Line	31.9	530.0000		401.0	947.1	697.6	84.6	208.7	146.7	16.0	39.4	27.7	98.69	94.40	98.98
28F2	GR145960	15615487	8.32KV_3P_Y556_AL	Overhead Line	49.5	530.0000		379.8	898.9	654.2	80.1	198.2	137.6	15.1	37.4	26.0	98.66	94.32	98.97
28F2	GR145961	15615485	8.32KV_3P_Y556_AL	Overhead Line	54.1	530.0000		356.7	875.1	631.2	75.3	193.2	132.8	14.2	36.4	25.1	98.64	94.22	98.97
28F2	GR145962	15615483	8.32KV_3P_Y556_AL	Overhead Line	54.0	530.0000		356.6	874.2	631.2	75.3	193.2	132.8	14.2	36.4	25.1	98.61	94.13	98.97
28F2	GR145963	16355640	8.32KV_3P_Y556_AL	Overhead Line	61.1	530.0000		324.8	807.9	522.6	68.6	178.7	109.9	12.9	33.7	20.7	98.58	94.04	98.97
28F2	GR145964	15618748	8.32KV_3P_Y556_AL	Overhead Line	48.8	530.0000		324.7	807.1	522.7	68.6	178.7	109.9	12.9	33.7	20.7	98.56	93.96	98.97
28F2	GR145965	16435122	8.32KV_3P_Y556_AACSR	Overhead Line	6.9	530.0000		324.6	806.4	522.7	68.6	178.7	109.9	12.9	33.7	20.7	98.55	93.95	98.97
28F2	GR145966	16466004	DEFAULT	Overhead Line	14.0	1000.0000		324.6	806.4	522.7	68.6	178.7	109.9	6.9	17.9	11.0	98.53	93.89	98.95
28F2	GR145967	16424056	DEFAULT	Overhead Line	20.9	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.53	93.89	98.95
28F2	GR145968	16424098	DEFAULT	Overhead Line	9.7	1000.0000		156.6	599.2	335.7	33.1	132.9	70.6	3.3	13.3	7.1	98.53	93.86	98.94
28F2	GR145969	16478037	DEFAULT	Overhead Line	26.8	1000.0000		156.6	599.0	335.7	33.1	132.9	70.6	3.3	13.3	7.1	98.51	93.77	98.92
28F2	GR145970	16478039	DEFAULT	Overhead Line	51.5	1000.0000		156.6	598.5	335.6	33.1	132.9	70.6	3.3	13.3	7.1	98.47	93.60	98.87
28F2	GR145971	16477845	DEFAULT	Overhead Line	55.3	1000.0000		156.5	597.4	335.4	33.1	132.9	70.6	3.3	13.3	7.1	98.43	93.41	98.83
28F2	GR145972	16477814	DEFAULT	Overhead Line	55.1	1000.0000		156.5	596.2	291.9	33.1	132.9	61.5	3.3	13.3	6.1	98.39	93.23	98.79
28F2	GR145973	16478043	DEFAULT	Overhead Line	44.4	1000.0000		156.4	595.0	291.8	33.1	132.9	61.5	3.3	13.3	6.1	98.36	93.08	98.76
28F2	GR145974	16478045	DEFAULT	Overhead Line	49.0	1000.0000		156.4	594.1	291.7	33.1	132.9	61.5	3.3	13.3	6.1	98.32	92.92	98.73
28F2	GR145975	16478047	DEFAULT	Overhead Line	47.0	1000.0000		156.3	593.0	291.7	33.1	132.9	61.5	3.3	13.3	6.1	98.28	92.76	98.70
28F2	GR145976	16478049	DEFAULT	Overhead Line	44.0	1000.0000		156.2	592.0	291.6	33.1	132.9	61.5	3.3	13.3	6.1	98.25	92.62	98.67
28F2	GR145977	16478051	DEFAULT	Overhead Line	39.0	1000.0000		156.2	591.1	291.5	33.1	132.9	61.5	3.3	13.3	6.1	98.22	92.49	98.64
28F2	GR145978	16478053	DEFAULT	Overhead Line	56.4	1000.0000		103.2	407.3	201.0	21.9	91.7	42.4	2.2	9.2	4.2	98.19	92.36	98.62
28F2	GR145979	16478055	DEFAULT	Overhead Line	69.4	1000.0000		74.0	406.7	201.0	15.7	91.7	42.4	1.6	9.2	4.2	98.17	92.20	98.59
28F2	GR145980	16424226	8.32KV_3P_N1/0_AL	Overhead Line	4.2	230.0000		74.0	239.5	59.6	15.7	54.1	12.6	6.8	23.5	5.5	98.17	92.19	98.59
28F2	GR146082	16477903	DEFAULT	Overhead Line	52.4	1000.0000		0.1	166.5	141.3	0.0	37.6	29.8	0.0	3.8	3.0	98.17	92.14	98.56
28F2	GR146083	16478058	DEFAULT	Overhead Line	44.9	1000.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146084	16478060	DEFAULT	Overhead Line	24.1	1000.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146085	16478062	DEFAULT	Overhead Line	23.3	1000.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146086	16477976	DEFAULT	Overhead Line	43.6	1000.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146087	16478065	DEFAULT	Overhead Line	50.0	1000.0000		0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146088	16478067	DEFAULT	Overhead Line	46.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146089	16478069	DEFAULT	Overhead Line	44.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146090	16478071	DEFAULT	Overhead Line	23.2	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146091	16424124	DEFAULT	Overhead Line	46.8	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146092	16478074	DEFAULT	Overhead Line	48.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146093	16478076	DEFAULT	Overhead Line	43.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146094	16478078	DEFAULT	Overhead Line	47.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146095	16478081	DEFAULT	Overhead Line	49.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146096	16478083	DEFAULT	Overhead Line	46.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146097	16478085	DEFAULT	Overhead Line	35.2	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146098	16424127	DEFAULT	Overhead Line	45.6	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146099	16478088	DEFAULT	Overhead Line	47.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.17	92.14	98.56
28F2	GR146100	18175195	8.32KV_3P_N1/0_AL	Overhead Line	9.1	230.0000		0.0	166.5	141.2	0.0	37.6	29.8	0.0	16.4	13.0	98.18	92.13	98.56
28F2	GR146199	18180696	8.32KV_1P_N1/0_AL	Overhead Line	4.7	230.0000		29.1			6.2			2.7			98.19		
28F2	GR146217	18179290	8.32KV_3P_N1/0_AL	Overhead Line	4.8	230.0000		53.0	183.0	90.4	11.2	41.2	19.1	4.9	17.9	8.3	98.22	92.48	98.64
28F2	GR146289	5508029	8.32KV_1P_Y1/0_AL	Overhead Line	5.6	230.0000				43.3			9.1			4.0			98.82
28F2	GR146301	16435126	DEFAULT	Overhead Line	7.1	1000.0000		167.9	206.6	186.9	35.5	45.8	39.3	3.5	4.6	3.9	98.53	93.88	98.95
28F2	GR146302	9031242	8.32KV_3P_Y336_AL	Overhead Line	27.1	530.0000		167.9	206.6	186.9	35.5	45.8	39.3	6.7	8.6	7.4	98.52	93.88	98.94
28F2	GR146303	16490143	8.32KV_3P_Y556_AL	Overhead Line	43.8	530.0000		167.8	206.5	186.8	35.5	45.8	39.3	6.7	8.6	7.4	98.51	93.86	98.93
28F2	GR146304	17237442	8.32KV_3P_N556_AL	Overhead Line	44.4	530.0000		167.8	206.5	186.8	35.5	45.8	39.3	6.7	8.6	7.4	98.50	93.85	98.93
28F2	GR146305	16477575	8.32KV_3P_N556_AL	Overhead Line	66.6	530.0000		167.8	206.5	186.8	35.5	45.8	39.3	6.7	8.6	7.4	98.49	93.83	98.92
28F2	GR146306	19023998	8.32KV_3P_N556_AL	Overhead Line	50.1	530.0000		67.3	206.4	143.5	14.2	45.8	30.2	2.7	8.6	5.7	98.49	93.81	98.92
28F2	GR146307	19024000	8.32KV_3P_N556_AL	Overhead Line	51.1	530.0000		56.7	182.6	121.8	12.0	40.5	25.6	2.3	7.6	4.8	98.48	93.79	98.92
28F2	GR146308	16504785	8.32KV_3P_N556_AL	Overhead Line	62.4	530.0000		56.7	182.5	121.8	12.0	40.5	25.6	2.3	7.6	4.8	98.48	93.77	98.92
28F2	GR146309	16504767	8.32KV_3P_N556_AL	Overhead Line	57.7	530.0000		56.7	182.5	121.8	12.0	40.5	25.6	2.3	7.6	4.8	98.47	93.74	98.92
28F2	GR146310	19024001	8.32KV_3P_N556_AL	Overhead Line	49.1	530.0000		19.8	182.5	121.8	4.2	40.5	25.6	0.8	7.6	4.8	98.47	93.72	98.92
28F2	GR146311	16477597	8.32KV_3P_N556_AL	Overhead Line	43.6	530.0000		19.8	182.4	121.8	4.2	40.5	25.6	0.8	7.6	4.8	98.47	93.70	98.93
28F2	GR146312	19024002	8.32KV_3P_N556_AL	Overhead Line	7.3	530.0000		19.8	182.4	121.8	4.2	40.5	25.6	0.8	7.6	4.8	98.47	93.70	98.93
28F2	GR146313	19024107	8.32KV_3P_N556_AL	Overhead Line	52.4	530.0000		19.8	182.4	121.8	4.2	40.5	25.6	0.8	7.6	4.8	98.47	93.68	98.93
28F2	GR146314	19024003	8.32KV_3P_N556_AL	Overhead Line	58.9	530.0000		19.8	182.3	121.8	4.2	40.5	25.6	0.8	7.6	4.8	98.47	93.65	98.93
28F2	GR146315	19024004	8.32KV_3P_N556_AL	Overhead Line	50.2	530.0000		19.8	182.3	121.8	4.2	40.5	25.6	0.8	7.6	4.8	98.47	93.63	98.94
28F2	GR146316	19024005	8.32KV_3P_N556_AL	Overhead Line	52.9	530.0000		19.8	182.2	121.8	4.2	40.5	25.6	0.8	7.6	4.8	98.47	93.61	98.94
28F2	GR146317	19024010	8.32KV_3P_N556_AL	Overhead Line	40.7	530.0000		19.8	182.2	121.8	4.2	40.5	25.6	0.8	7.6	4.8	98.47	93.59	98.94
28F2	GR146318	19024011	8.32KV_3P_N556_AL	Overhead Line	54.6	530.0000		19.8	182.2	121.8	4.2	40.5	25.6	0.8	7.6	4.8	98.47	93.57	98.95
28F2	GR146319	19024013	8.32KV_3P_N556_AL	Overhead Line	21.3	530.0000		19.8	83.4	121.8	4.2	18.5	25.6	0.8	3.5	4.8	98.47	93.56	98.94
28F2	GR146320	19024015	8.32KV_3P_N556_AL	Overhead Line	57.3	530.0000		19.8	83.3	121.8	4.2	18.5	25.6	0.8	3.5	4.8	98.48	93.55	98.94
28F2	GR146321	16477602	8.32KV_3P_N556_AL	Overhead Line	48.4	530.0000		19.8	83.3	121.8	4.2	18.5	25.6	0.8	3.5	4.8	98.48	93.54	98.93
28F2	GR146322	19024016	8.32KV_3P_N556_AL	Overhead Line	43.5	530.0000		19.8	83.3	121.8	4.2	18.5	25.6	0.8	3.5	4.8	98.48	93.53	98.93
28F2	GR146323	19024017	8.32KV_3P_N556_AL	Overhead Line	35.8	530.0000		19.8	83.3	121.8	4.2	18.5	25.6	0.8	3.5	4.8	98.49	93.52	98.93
28F2	GR146324	19024018	8.32KV_3P_N556_AL	Overhead Line	6.7	530.0000		19.8	83.3	121.8	4.2	18.5	25.6	0.8	3.5	4.8	98.49	93.51	98.92
28F2	GR146325	18122032	8.32KV_1P_Y556_AL	Overhead Line	8.4	530.0000				67.7			14.2			2.7			98.92
28F2	GR146326	18122004	8.32KV_1P_Y556_AL	Overhead Line	33.7	530.0000				67.7			14.2			2.7			98.92

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
28F2	GR146327	5507493	8.32KV_1P_Y1/0_AL	Overhead Line	46.6	230.0000				67.7			14.2			6.2			98.91
28F2	GR146328	5507501	8.32KV_1P_Y1/0_AL	Overhead Line	34.6	230.0000				51.5			10.8			4.7			98.91
28F2	GR146329	5507502	8.32KV_1P_Y1/0_AL	Overhead Line	38.7	230.0000				51.4			10.8			4.7			98.90
28F2	GR146330	5507503	8.32KV_1P_Y1/0_AL	Overhead Line	5.6	230.0000				29.8			6.3			2.7			98.90
28F2	GR146331	11296942	8.32KV_1P_Y1/0_AL	Overhead Line	33.8	230.0000				29.8			6.3			2.7			98.90
28F2	GR146332	5508718	8.32KV_1P_Y1/0_AL	Overhead Line	44.2	230.0000				29.8			6.3			2.7			98.89
28F2	GR146333	5508719	8.32KV_1P_Y1/0_AL	Overhead Line	46.1	230.0000				19.0			4.0			1.7			98.89
28F2	GR146334	5508720	8.32KV_1P_Y1/0_AL	Overhead Line	38.2	230.0000				19.0			4.0			1.7			98.89
28F2	GR146335	5508721	8.32KV_1P_Y1/0_AL	Overhead Line	22.3	230.0000				19.0			4.0			1.7			98.89
28F2	GR146336	5508722	8.32KV_1P_Y1/0_AL	Overhead Line	24.2	230.0000				19.0			4.0			1.7			98.89
28F2	GR146337	5508723	8.32KV_1P_Y1/0_AL	Overhead Line	21.3	230.0000				8.1			1.7			0.7			98.89
28F2	GR146338	5508724	8.32KV_1P_Y1/0_AL	Overhead Line	21.4	230.0000				8.1			1.7			0.7			98.89
28F2	GR146339	5508725	8.32KV_1P_Y1/0_AL	Overhead Line	23.2	230.0000				0.0			0.0			0.0			98.89
28F2	GR146340	5508726	8.32KV_1P_Y1/0_AL	Overhead Line	20.2	230.0000				0.0			0.0			0.0			98.89
28F2	GR146345	5508727	8.32KV_1P_Y1/0_AL	Overhead Line	22.1	230.0000				0.0			0.0			0.0			98.89
28F2	GR146349	5507504	8.32KV_1P_Y1/0_AL	Overhead Line	17.2	230.0000				21.7			4.6			2.0			98.90
28F2	GR146357	18122047	8.32KV_3P_N556_AL	Overhead Line	39.2	530.0000		19.8	0.0	0.0	4.2	0.0	0.0	0.8	0.0	0.0	98.49	93.52	98.92
28F2	GR146358	19024019	8.32KV_3P_N556_AL	Overhead Line	57.0	530.0000		19.8	0.0	0.0	4.2	0.0	0.0	0.8	0.0	0.0	98.48	93.52	98.92
28F2	GR146359	19024258	8.32KV_3P_N556_AL	Overhead Line	27.1	530.0000		19.8	0.0	0.0	4.2	0.0	0.0	0.8	0.0	0.0	98.48	93.52	98.92
28F2	GR146360	19024020	8.32KV_3P_N556_AL	Overhead Line	42.4	530.0000		19.8	0.0	0.0	4.2	0.0	0.0	0.8	0.0	0.0	98.48	93.52	98.92
28F2	GR146361	16477605	8.32KV_3P_N556_AL	Overhead Line	42.2	530.0000		19.8	0.0	0.0	4.2	0.0	0.0	0.8	0.0	0.0	98.48	93.52	98.92
28F2	GR146362	19024021	8.32KV_3P_N556_AL	Overhead Line	59.0	530.0000		19.8	0.0	0.0	4.2	0.0	0.0	0.8	0.0	0.0	98.48	93.52	98.92
28F2	GR146363	16477607	8.32KV_3P_N556_AL	Overhead Line	28.5	530.0000		19.8	0.0	0.0	4.2	0.0	0.0	0.8	0.0	0.0	98.48	93.52	98.92
28F2	GR146364	19024023	8.32KV_3P_N556_AL	Overhead Line	34.3	530.0000		19.8	0.0	0.0	4.2	0.0	0.0	0.8	0.0	0.0	98.47	93.53	98.92
28F2	GR146365	11297418	8.32KV_1P_Y1/0_AL	Overhead Line	25.8	230.0000		17.2			3.6			1.6			98.47		
28F2	GR146366	5509945	8.32KV_1P_Y1/0_AL	Overhead Line	28.0	230.0000		17.2			3.6			1.6			98.47		
28F2	GR146367	5509946	8.32KV_1P_Y1/0_AL	Overhead Line	40.7	230.0000		17.2			3.6			1.6			98.47		
28F2	GR146368	5509947	8.32KV_1P_Y1/0_AL	Overhead Line	32.8	230.0000		9.2			2.0			0.8			98.47		
28F2	GR146369	5509948	8.32KV_1P_Y1/0_AL	Overhead Line	32.8	230.0000		9.2			2.0			0.8			98.47		
28F2	GR146370	5509949	8.32KV_1P_Y1/0_AL	Overhead Line	21.1	230.0000		9.2			2.0			0.9			98.47		
28F2	GR146371	5509950	8.32KV_1P_Y1/0_AL	Overhead Line	23.0	230.0000		9.2			2.0			0.9			98.47		
28F2	GR146372	5509951	8.32KV_1P_Y1/0_AL	Overhead Line	41.1	230.0000		9.2			2.0			0.9			98.47		
28F2	GR146373	5509952	8.32KV_1P_Y1/0_AL	Overhead Line	21.7	230.0000		9.2			2.0			0.9			98.47		
28F2	GR146374	5509953	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000		5.3			1.1			0.5			98.46		
28F2	GR146381	5509943	8.32KV_1P_Y1/0_AL	Overhead Line	84.3	230.0000		2.6			0.6			0.2			98.47		
28F2	GR146384	19019269	8.32KV_3P_Y556_AL	Overhead Line	8.1	530.0000		0.1	83.3	54.1	0.0	18.5	11.4	0.0	3.5	2.1	98.49	93.51	98.92
28F2	GR146385	18122093	8.32KV_3P_Y556_AL	Overhead Line	37.2	530.0000		0.1	83.3	54.1	0.0	18.5	11.4	0.0	3.5	2.1	98.49	93.51	98.93
28F2	GR146386	18122095	8.32KV_3P_Y556_AL	Overhead Line	51.4	530.0000		0.1	83.3	43.3	0.0	18.5	9.1	0.0	3.5	1.7	98.49	93.50	98.93
28F2	GR146387	18122097	8.32KV_3P_Y556_AL	Overhead Line	49.8	530.0000		0.1	83.3	43.3	0.0	18.5	9.1	0.0	3.5	1.7	98.49	93.49	98.93
28F2	GR146388	19019268	8.32KV_1P_Y1/0_AL	Overhead Line	42.7	230.0000			11.9			2.6			1.2			93.48	
28F2	GR146389	5510205	8.32KV_1P_Y1/0_AL	Overhead Line	42.1	230.0000			11.9			2.6			1.2			93.48	
28F2	GR146390	5508084	8.32KV_1P_Y1/0_AL	Overhead Line	45.3	230.0000			11.9			2.6			1.2			93.48	
28F2	GR146391	5510206	8.32KV_1P_Y1/0_AL	Overhead Line	33.9	230.0000			0.0			0.0			0.0			93.48	
28F2	GR146394	19021648	8.32KV_3P_Y556_AL	Overhead Line	1.3	530.0000		0.1	71.4	43.3	0.0	15.9	9.1	0.0	3.0	1.7	98.49	93.48	98.93
28F2	GR146395	18122100	8.32KV_3P_Y556_AL	Overhead Line	66.1	530.0000		0.1	71.4	43.3	0.0	15.9	9.1	0.0	3.0	1.7	98.49	93.47	98.94
28F2	GR146396	18122102	8.32KV_3P_Y556_AL	Overhead Line	65.5	530.0000		0.1	71.4	43.3	0.0	15.9	9.1	0.0	3.0	1.7	98.49	93.46	98.94
28F2	GR146397	18122104	8.32KV_3P_Y556_AL	Overhead Line	63.6	530.0000		0.1	71.4	43.3	0.0	15.9	9.1	0.0	3.0	1.7	98.49	93.45	98.94
28F2	GR146398	18122106	8.32KV_3P_Y556_AL	Overhead Line	48.1	530.0000		0.1	71.4	0.1	0.0	15.9	0.0	0.0	3.0	0.0	98.49	93.44	98.95
28F2	GR146399	18122108	8.32KV_3P_Y556_AL	Overhead Line	51.9	530.0000		0.1	71.4	0.1	0.0	15.9	0.0	0.0	3.0	0.0	98.48	93.44	98.95
28F2	GR146400	18122110	8.32KV_3P_Y556_AL	Overhead Line	2.9	530.0000		0.1	71.4	0.1	0.0	15.9	0.0	0.0	3.0	0.0	98.48	93.44	98.95
28F2	GR146401	19019290	8.32KV_3P_Y556_AL	Overhead Line	33.2	530.0000		0.1	71.4	0.1	0.0	15.9	0.0	0.0	3.0	0.0	98.48	93.43	98.96
28F2	GR146402	19056007	8.32KV_3P_Y556_AL	Overhead Line	34.7	530.0000		0.1	71.4	0.1	0.0	15.9	0.0	0.0	3.0	0.0	98.48	93.43	98.96
28F2	GR146403	18122113	8.32KV_3P_Y556_AL	Overhead Line	46.5	530.0000		0.1	71.4	0.1	0.0	15.9	0.0	0.0	3.0	0.0	98.47	93.42	98.97
28F2	GR146404	15515058	8.32KV_3P_Y336_AL	Overhead Line	20.7	530.0000		0.1	71.4	0.1	0.0	15.9	0.0	0.0	3.0	0.0	98.47	93.42	98.97
28F2	GR146405	15510359	8.32KV_3P_N556_AL	Overhead Line	35.9	530.0000		0.0	71.4	0.0	0.0	15.9	0.0	0.0	3.0	0.0	98.47	93.41	98.97
28F2	GR146406	15515034	8.32KV_1P_Y1/0_AL	Overhead Line	3.6	230.0000			71.4			15.9			6.9			93.41	
28F2	GR146407	5512753	8.32KV_1P_Y1/0_AL	Overhead Line	42.7	230.0000			71.4			15.9			6.9			93.40	
28F2	GR146408	5512754	8.32KV_1P_Y1/0_AL	Overhead Line	34.4	230.0000			65.4			14.6			6.3			93.40	
28F2	GR146409	5512755	8.32KV_1P_Y1/0_AL	Overhead Line	45.6	230.0000			65.4			14.6			6.3			93.39	
28F2	GR146410	5512756	8.32KV_1P_Y1/0_AL	Overhead Line	36.2	230.0000			65.4			14.6			6.3			93.38	
28F2	GR146411	5512757	8.32KV_1P_Y1/0_AL	Overhead Line	31.0	230.0000			65.4			14.6			6.3			93.38	
28F2	GR146412	5510021	8.32KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000			47.6			10.6			4.6			93.37	
28F2	GR146413	5512758	8.32KV_1P_Y1/0_AL	Overhead Line	4.1	230.0000			11.9			2.7			1.2			93.37	
28F2	GR146414	11296688	8.32KV_1P_Y1/0_AL	Overhead Line	17.2	230.0000			11.9			2.7			1.2			93.37	
28F2	GR146415	5512759	8.32KV_1P_Y1/0_AL	Overhead Line	30.9	230.0000			11.9			2.7			1.2			93.37	
28F2	GR146416	5512760	8.32KV_1P_Y1/0_AL	Overhead Line	48.3	230.0000			11.9			2.7			1.2			93.37	
28F2	GR146419	5512761	8.32KV_1P_Y1/0_AL	Overhead Line	37.2	230.0000			35.7			8.0			3.5			93.37	
28F2	GR146420	5512763	8.32KV_1P_Y1/0_AL	Overhead Line	45.4	230.0000			35.7			8.0			3.5			93.37	
28F2	GR146421	5512764	8.32KV_1P_Y1/0_AL	Overhead Line	34.4	230.0000			23.8			5.3			2.3			93.36	
28F2	GR146422	5512765	8.32KV_1P_Y1/0_AL	Overhead Line	31.3	230.0000			17.8			4.0			1.7			93.36	
28F2	GR146423	11296520	8.32KV_1P_N1/0_AL	Overhead Line	32.4	230.0000			0.0			0.0			0.0			93.36	
28F2	GR146428	5512766	8.32KV_1P_Y1/0_AL	Overhead Line	3.8	230.0000			11.9			2.7			1.2			93.37	
28F2	GR146429	11296673	8.32KV_1P_Y1/0_AL	Overhead Line	40.2	230.0000			11.9			2.7			1.2			93.36	

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
28F2	GR146430	5512767	8.32KV_1P_Y1/0_AL	Overhead Line	31.8	230.0000			11.9			2.7			1.2			93.36	
28F2	GR146431	5512769	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000			11.9			2.7			1.2			93.36	
28F2	GR146432	5512770	8.32KV_1P_Y1/0_AL	Overhead Line	30.6	230.0000			11.9			2.7			1.2			93.36	
28F2	GR146433	5512771	8.32KV_1P_Y1/0_AL	Overhead Line	25.0	230.0000			11.9			2.7			1.2			93.36	
28F2	GR146434	5512772	8.32KV_1P_Y1/0_AL	Overhead Line	30.0	230.0000			11.9			2.7			1.2			93.36	
28F2	GR146435	5512773	8.32KV_1P_Y1/0_AL	Overhead Line	38.2	230.0000			0.0			0.0			0.0			93.36	
28F2	GR146436	5512774	8.32KV_1P_Y1/0_AL	Overhead Line	27.1	230.0000			0.0			0.0			0.0			93.36	
28F2	GR146444	15510361	8.32KV_3P_Y556_AL	Overhead Line	11.5	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146445	15660767	8.32KV_3P_Y556_AL	Overhead Line	27.7	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146446	15510340	DEFAULT	Overhead Line	13.6	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146447	15522353	8.32KV_3P_Y556_AL	Overhead Line	7.6	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146448	15595347	8.32KV_3P_Y556_AL	Overhead Line	43.4	530.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146449	16443909	8.32KV_3P_Y556_AL	Overhead Line	26.7	530.0000		0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146450	15529371	8.32KV_3P_Y556_AL	Overhead Line	41.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146451	15595338	8.32KV_3P_Y556_AL	Overhead Line	40.7	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146452	16443906	8.32KV_3P_Y556_AL	Overhead Line	46.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146453	15529374	8.32KV_3P_Y556_AL	Overhead Line	41.6	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146454	15529376	8.32KV_3P_Y556_AL	Overhead Line	61.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146455	15529377	8.32KV_3P_Y556_AL	Overhead Line	43.3	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146456	15526596	8.32KV_3P_Y556_AL	Overhead Line	36.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146457	15529382	8.32KV_3P_Y556_AL	Overhead Line	49.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146458	15529384	8.32KV_3P_Y556_AL	Overhead Line	37.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146459	15529405	8.32KV_3P_Y556_AL	Overhead Line	47.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146460	16461681	8.32KV_3P_Y556_AL	Overhead Line	33.7	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146461	15529410	8.32KV_3P_Y556_AL	Overhead Line	4.3	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	93.42	98.97
28F2	GR146462	5508754	8.32KV_1P_Y1/0_AL	Overhead Line	41.2	230.0000				0.0			0.0			0.0			98.95
28F2	GR146463	5512813	8.32KV_1P_Y1/0_AL	Overhead Line	6.9	230.0000				43.3			9.1			4.0			98.94
28F2	GR146464	5508375	8.32KV_1P_Y1/0_AL	Overhead Line	56.3	230.0000				43.3			9.1			4.0			98.93
28F2	GR146465	5511710	8.32KV_1P_Y1/0_AL	Overhead Line	47.5	230.0000				43.3			9.1			4.0			98.93
28F2	GR146466	5509313	8.32KV_1P_Y1/0_AL	Overhead Line	46.3	230.0000				43.3			9.1			4.0			98.92
28F2	GR146467	5509314	8.32KV_1P_Y1/0_AL	Overhead Line	44.2	230.0000				32.5			6.8			3.0			98.92
28F2	GR146468	5509315	8.32KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000				0.0			0.0			0.0			98.92
28F2	GR146473	5509316	8.32KV_1P_Y1/0_AL	Overhead Line	47.2	230.0000				32.5			6.8			3.0			98.91
28F2	GR146474	5509317	8.32KV_1P_Y1/0_AL	Overhead Line	30.3	230.0000				21.7			4.6			2.0			98.91
28F2	GR146489	5510208	8.32KV_1P_Y1/0_AL	Overhead Line	34.5	230.0000			98.8			22.0			9.6			93.56	
28F2	GR146490	5510209	8.32KV_1P_Y1/0_AL	Overhead Line	34.6	230.0000			98.8			22.0			9.6			93.55	
28F2	GR146491	5510210	8.32KV_1P_Y1/0_AL	Overhead Line	40.3	230.0000			98.8			22.0			9.6			93.54	
28F2	GR146492	5510211	8.32KV_1P_Y1/0_AL	Overhead Line	52.3	230.0000			75.0			16.7			7.3			93.52	
28F2	GR146493	5510203	8.32KV_1P_Y1/0_AL	Overhead Line	42.4	230.0000			74.9			16.7			7.3			93.52	
28F2	GR146494	5511053	8.32KV_1P_Y1/0_AL	Overhead Line	29.0	230.0000			57.1			12.7			5.5			93.51	
28F2	GR146495	5558598	8.32KV_1P_Y1/0_AL	Overhead Line	38.6	230.0000			57.1			12.7			5.5			93.50	
28F2	GR146496	5558597	8.32KV_1P_Y1/0_AL	Overhead Line	36.3	230.0000			57.1			12.7			5.5			93.50	
28F2	GR146497	5510202	8.32KV_1P_Y1/0_AL	Overhead Line	40.4	230.0000			45.2			10.1			4.4			93.49	
28F2	GR146498	5510201	8.32KV_1P_Y1/0_AL	Overhead Line	41.7	230.0000			45.2			10.1			4.4			93.49	
28F2	GR146499	5509796	8.32KV_1P_Y1/0_AL	Overhead Line	42.1	230.0000			45.2			10.1			4.4			93.48	
28F2	GR146500	5509794	8.32KV_1P_Y1/0_AL	Overhead Line	38.0	230.0000			45.2			10.1			4.4			93.48	
28F2	GR146501	5509795	8.32KV_1P_Y1/0_AL	Overhead Line	4.5	230.0000			41.6			9.3			4.0			93.48	
28F2	GR146502	5509793	8.32KV_1P_Y1/0_AL	Overhead Line	37.5	230.0000			41.6			9.3			4.0			93.47	
28F2	GR146503	5509790	8.32KV_1P_Y1/0_AL	Overhead Line	24.0	230.0000			35.7			7.9			3.5			93.47	
28F2	GR146504	5509789	8.32KV_1P_Y1/0_AL	Overhead Line	41.7	230.0000			35.7			7.9			3.5			93.47	
28F2	GR146505	5509788	8.32KV_1P_Y1/0_AL	Overhead Line	50.7	230.0000			23.8			5.3			2.3			93.46	
28F2	GR146506	5559767	8.32KV_1P_Y1/0_AL	Overhead Line	34.1	230.0000			23.8			5.3			2.3			93.46	
28F2	GR146507	5507539	8.32KV_1P_Y1/0_AL	Overhead Line	29.0	230.0000			5.9			1.3			0.6			93.46	
28F2	GR146508	5509124	8.32KV_1P_Y1/0_AL	Overhead Line	37.2	230.0000			5.9			1.3			0.6			93.46	
28F2	GR146509	5509125	8.32KV_1P_Y1/0_AL	Overhead Line	34.6	230.0000			0.0			0.0			0.0			93.46	
28F2	GR146510	5559389	8.32KV_1P_Y1/0_AL	Overhead Line	42.4	230.0000			0.0			0.0			0.0			93.46	
28F2	GR146514	5507987	8.32KV_1P_Y1/0_AL	Overhead Line	3.6	230.0000			0.0			0.0			0.0			93.46	
28F2	GR146515	5508698	8.32KV_1P_Y1/0_AL	Overhead Line	23.4	230.0000			17.8			4.0			1.7			93.46	
28F2	GR146516	5508699	8.32KV_1P_Y1/0_AL	Overhead Line	42.4	230.0000			17.8			4.0			1.7			93.46	
28F2	GR146517	5510421	8.32KV_1P_Y1/0_AL	Overhead Line	31.2	230.0000			17.8			4.0			1.7			93.45	
28F2	GR146522	5509791	8.32KV_1P_Y1/0_AL	Overhead Line	49.1	230.0000			5.9			1.3			0.6			93.47	
28F2	GR146523	5509792	8.32KV_1P_Y1/0_AL	Overhead Line	34.1	230.0000			5.9			1.3			0.6			93.47	
28F2	GR146526	5512872	8.32KV_1P_Y1/0_AL	Overhead Line	28.4	230.0000			0.0			0.0			0.0			93.47	
28F2	GR146533	5510204	8.32KV_1P_Y1/0_AL	Overhead Line	2.0	230.0000			0.0			0.0			0.0			93.52	
28F2	GR146534	11276166	8.32KV_1P_Y1/0_AL	Overhead Line	42.9	230.0000			0.0			0.0			0.0			93.52	
28F2	GR146535	5510212	8.32KV_1P_Y1/0_AL	Overhead Line	13.2	230.0000			23.8			5.3			2.3			93.53	
28F2	GR146538	5508185	8.32KV_1P_Y1/0_AL	Overhead Line	17.4	230.0000		37.0			7.8			3.4			98.47		
28F2	GR146539	5558704	8.32KV_1P_Y1/0_AL	Overhead Line	42.6	230.0000		37.0			7.8			3.4			98.47		
28F2	GR146540	5558705	8.32KV_1P_Y1/0_AL	Overhead Line	39.7	230.0000		34.3			7.3			3.2			98.46		
28F2	GR146541	5558706	8.32KV_1P_Y1/0_AL	Overhead Line	46.6	230.0000		31.7			6.7			2.9			98.46		
28F2	GR146542	5508135	8.32KV_1P_Y1/0_AL	Overhead Line	3.8	230.0000		10.6			2.2			1.0			98.46		
28F2	GR146543	5507537	8.32KV_1P_Y1/0_AL	Overhead Line	25.5	230.0000		10.6			2.2			1.0			98.46		
28F2	GR146544	13519790	8.32KV_1P_N1/0_AL	Overhead Line	3.9	230.0000		0.0			0.0			0.0			98.46		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
28F2	GR146545	5508134	8.32KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000		10.6			2.2			1.0			98.46		
28F2	GR146550	5558707	8.32KV_1P_Y1/0_AL	Overhead Line	43.6	230.0000		13.2			2.8			1.2			98.46		
28F2	GR146551	5558708	8.32KV_1P_Y1/0_AL	Overhead Line	43.3	230.0000		13.2			2.8			1.2			98.45		
28F2	GR146552	5558695	8.32KV_1P_Y1/0_AL	Overhead Line	18.1	230.0000		0.0			0.0			0.0			98.45		
28F2	GR146553	5558696	8.32KV_1P_Y1/0_AL	Overhead Line	37.8	230.0000		7.9			1.7			0.7			98.45		
28F2	GR146554	5511489	8.32KV_1P_Y1/0_AL	Overhead Line	40.0	230.0000		7.9			1.7			0.7			98.45		
28F2	GR146555	5558697	8.32KV_1P_Y1/0_AL	Overhead Line	47.2	230.0000		7.9			1.7			0.7			98.45		
28F2	GR146556	5558698	8.32KV_1P_Y1/0_AL	Overhead Line	21.5	230.0000		7.9			1.7			0.7			98.45		
28F2	GR146557	5558699	8.32KV_1P_Y1/0_AL	Overhead Line	23.1	230.0000		7.9			1.7			0.7			98.45		
28F2	GR146558	5558700	8.32KV_1P_Y1/0_AL	Overhead Line	18.7	230.0000		0.0			0.0			0.0			98.45		
28F2	GR146559	5558701	8.32KV_1P_Y1/0_AL	Overhead Line	21.8	230.0000		0.0			0.0			0.0			98.45		
28F2	GR146560	5558702	8.32KV_1P_Y1/0_AL	Overhead Line	21.3	230.0000		0.0			0.0			0.0			98.45		
28F2	GR146561	5558703	8.32KV_1P_Y1/0_AL	Overhead Line	20.3	230.0000		0.0			0.0			0.0			98.45		
28F2	GR146566	5558709	8.32KV_1P_Y1/0_AL	Overhead Line	45.4	230.0000		7.9			1.7			0.7			98.46		
28F2	GR146567	5511490	8.32KV_1P_Y1/0_AL	Overhead Line	48.2	230.0000		7.9			1.7			0.7			98.46		
28F2	GR146568	5558710	8.32KV_1P_Y1/0_AL	Overhead Line	50.3	230.0000		0.0			0.0			0.0			98.46		
28F2	GR146575	5508131	8.32KV_3P_Y1/0_AL	Overhead Line	4.3	230.0000		10.6	23.8	21.7	2.2	5.3	4.6	1.0	2.3	2.0	98.49	93.81	98.92
28F2	GR146580	5508327	8.32KV_1P_Y1/0_AL	Overhead Line	5.8	230.0000				43.3			9.1			4.0			98.92
28F2	GR146591	5558927	8.32KV_1P_Y1/0_AL	Overhead Line	19.0	230.0000		100.5			21.2			9.2			98.48		
28F2	GR146592	5558928	8.32KV_1P_Y1/0_AL	Overhead Line	29.6	230.0000		100.5			21.2			9.2			98.48		
28F2	GR146593	5558929	8.32KV_1P_Y1/0_AL	Overhead Line	33.7	230.0000		100.5			21.2			9.2			98.47		
28F2	GR146596	5558926	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000		2.6			0.6			0.2			98.47		
28F2	GR146597	11340594	8.32KV_1P_Y1/0_AL	Overhead Line	41.8	230.0000		2.6			0.6			0.2			98.47		
28F2	GR146598	5508372	8.32KV_1P_Y1/0_AL	Overhead Line	40.8	230.0000		2.6			0.6			0.2			98.47		
28F2	GR146599	5512032	8.32KV_1P_Y1/0_AL	Overhead Line	45.1	230.0000		2.6			0.6			0.2			98.47		
28F2	GR146602	5558930	8.32KV_1P_Y1/0_AL	Overhead Line	32.5	230.0000		92.5			19.6			8.5			98.46		
28F2	GR146603	5558931	8.32KV_1P_Y1/0_AL	Overhead Line	34.0	230.0000		92.5			19.6			8.5			98.45		
28F2	GR146604	5511956	8.32KV_1P_Y1/0_AL	Overhead Line	41.2	230.0000		79.3			16.8			7.3			98.44		
28F2	GR146605	5511492	8.32KV_1P_Y1/0_AL	Overhead Line	42.9	230.0000		79.3			16.8			7.3			98.43		
28F2	GR146606	5558902	8.32KV_1P_Y1/0_AL	Overhead Line	0.7	230.0000		74.0			15.7			6.8			98.43		
28F2	GR146607	18088413	8.32KV_1P_Y1/0_AL	Overhead Line	29.6	230.0000		63.4			13.4			5.8			98.43		
28F2	GR146608	5558901	8.32KV_1P_Y1/0_AL	Overhead Line	43.9	230.0000		63.4			13.4			5.8			98.42		
28F2	GR146609	5511182	8.32KV_1P_Y1/0_AL	Overhead Line	3.6	230.0000		63.4			13.4			5.8			98.42		
28F2	GR146610	5511181	8.32KV_1P_Y1/0_AL	Overhead Line	4.8	230.0000		5.3			1.1			0.5			98.42		
28F2	GR146611	5558903	8.32KV_1P_Y1/0_AL	Overhead Line	34.2	230.0000		5.3			1.1			0.5			98.42		
28F2	GR146612	5558906	8.32KV_1P_Y1/0_AL	Overhead Line	50.6	230.0000		5.3			1.1			0.5			98.42		
28F2	GR146613	5558905	8.32KV_1P_Y1/0_AL	Overhead Line	40.6	230.0000		0.0			0.0			0.0			98.42		
28F2	GR146616	5558900	8.32KV_1P_Y1/0_AL	Overhead Line	35.6	230.0000		58.1			12.3			5.3			98.41		
28F2	GR146617	5558899	8.32KV_1P_Y1/0_AL	Overhead Line	32.2	230.0000		58.1			12.3			5.3			98.41		
28F2	GR146618	5558898	8.32KV_1P_Y1/0_AL	Overhead Line	43.0	230.0000		52.9			11.2			4.9			98.40		
28F2	GR146619	5558897	8.32KV_1P_Y1/0_AL	Overhead Line	42.9	230.0000		52.8			11.2			4.9			98.39		
28F2	GR146620	13127397	8.32KV_1P_Y1/0_AL	Overhead Line	4.0	230.0000		13.2			2.8			1.2			98.39		
28F2	GR146621	5510873	8.32KV_1P_Y1/0_AL	Overhead Line	22.6	230.0000		13.2			2.8			1.2			98.39		
28F2	GR146622	5558313	8.32KV_1P_Y1/0_AL	Overhead Line	30.0	230.0000		13.2			2.8			1.2			98.39		
28F2	GR146623	5558312	8.32KV_1P_Y1/0_AL	Overhead Line	39.9	230.0000		5.3			1.1			0.5			98.39		
28F2	GR146624	5558311	8.32KV_1P_Y1/0_AL	Overhead Line	36.9	230.0000		5.3			1.1			0.5			98.39		
28F2	GR146625	5558310	8.32KV_1P_Y1/0_AL	Overhead Line	36.7	230.0000		5.3			1.1			0.5			98.39		
28F2	GR146632	5558329	8.32KV_1P_Y1/0_AL	Overhead Line	49.1	230.0000		31.7			6.7			2.9			98.39		
28F2	GR146633	5558330	8.32KV_1P_Y1/0_AL	Overhead Line	30.5	230.0000		31.7			6.7			2.9			98.39		
28F2	GR146634	5558484	8.32KV_1P_Y1/0_AL	Overhead Line	37.6	230.0000		26.4			5.6			2.4			98.38		
28F2	GR146635	5558485	8.32KV_1P_Y1/0_AL	Overhead Line	36.8	230.0000		18.5			3.9			1.7			98.38		
28F2	GR146636	5558486	8.32KV_1P_Y1/0_AL	Overhead Line	27.2	230.0000		18.5			3.9			1.7			98.38		
28F2	GR146637	5558487	8.32KV_1P_Y1/0_AL	Overhead Line	40.0	230.0000		18.5			3.9			1.7			98.38		
28F2	GR146638	5512633	8.32KV_1P_Y1/0_AL	Overhead Line	41.5	230.0000		13.2			2.8			1.2			98.38		
28F2	GR146639	5558495	8.32KV_1P_Y1/0_AL	Overhead Line	39.0	230.0000		13.2			2.8			1.2			98.37		
28F2	GR146640	5558496	8.32KV_1P_Y1/0_AL	Overhead Line	31.9	230.0000		5.3			1.1			0.5			98.37		
28F2	GR146641	5558497	8.32KV_1P_Y1/0_AL	Overhead Line	28.4	230.0000		5.3			1.1			0.5			98.37		
28F2	GR146642	5558498	8.32KV_1P_Y1/0_AL	Overhead Line	34.4	230.0000		5.3			1.1			0.5			98.37		
28F2	GR146643	5558527	8.32KV_1P_Y1/0_AL	Overhead Line	30.5	230.0000		0.0			0.0			0.0			98.37		
28F2	GR146648	5558488	8.32KV_1P_Y1/0_AL	Overhead Line	26.5	230.0000		5.3			1.1			0.5			98.38		
28F2	GR146649	5558489	8.32KV_1P_Y1/0_AL	Overhead Line	20.7	230.0000		5.3			1.1			0.5			98.38		
28F2	GR146650	5558490	8.32KV_1P_Y1/0_AL	Overhead Line	22.7	230.0000		5.3			1.1			0.5			98.38		
28F2	GR146651	5558491	8.32KV_1P_Y1/0_AL	Overhead Line	19.4	230.0000		0.0			0.0			0.0			98.38		
28F2	GR146652	5558492	8.32KV_1P_Y1/0_AL	Overhead Line	20.8	230.0000		0.0			0.0			0.0			98.38		
28F2	GR146653	5558493	8.32KV_1P_Y1/0_AL	Overhead Line	25.4	230.0000		0.0			0.0			0.0			98.38		
28F2	GR146654	5558494	8.32KV_1P_Y1/0_AL	Overhead Line	23.9	230.0000		0.0			0.0			0.0			98.38		
28F2	GR146655	5508136	8.32KV_1P_Y1/0_AL	Overhead Line	37.4	230.0000		0.0			0.0			0.0			98.38		
28F2	GR146666	9031378	8.32KV_1P_Y1/0_AL	Overhead Line	39.8	230.0000		5.3			1.1			0.5			98.43		
28F2	GR146667	5558693	8.32KV_1P_Y1/0_AL	Overhead Line	34.2	230.0000		5.3			1.1			0.5			98.43		
28F2	GR146668	5512634	8.32KV_1P_Y1/0_AL	Overhead Line	33.7	230.0000		5.3			1.1			0.5			98.43		
28F2	GR146669	17989204	8.32KV_1P_Y1/0_AL	Overhead Line	34.8	230.0000		0.0			0.0			0.0			98.43		
28F2	GR146670	5558694	8.32KV_1P_Y1/0_AL	Overhead Line	29.8	230.0000		0.0			0.0			0.0			98.43		
28F2	GR146671	5562100	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000		0.0			0.0			0.0			98.43		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
28F2	GR146674	5558932	8.32KV_1P_Y1/0_AL	Overhead Line	26.1	230.0000		13.2			2.8			1.2			98.45		
28F2	GR146675	5558933	8.32KV_1P_Y1/0_AL	Overhead Line	36.7	230.0000		7.9			1.7			0.7			98.45		
28F2	GR146676	5513033	8.32KV_1P_Y1/0_AL	Overhead Line	47.0	230.0000		7.9			1.7			0.7			98.45		
28F2	GR146677	5508133	8.32KV_1P_Y1/0_AL	Overhead Line	29.0	230.0000		7.9			1.7			0.7			98.45		
28F2	GR146678	13519789	8.32KV_1P_N1/0_AL	Overhead Line	43.9	230.0000		0.0			0.0			0.0			98.45		
28F2	GR146683	18145823	8.32KV_3P_Y556_AL	Overhead Line	49.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.56	93.96	98.97
28F2	GR146684	5511178	8.32KV_3P_Y556_AL	Overhead Line	5.1	530.0000		31.7	65.5	108.6	6.7	14.5	22.8	1.3	2.7	4.3	98.61	94.13	98.97
28F2	GR146763	5508683	8.32KV_3P_Y556_AL	Overhead Line	4.7	530.0000		23.2	23.3	23.2	4.9	5.1	4.9	0.9	1.0	0.9	98.66	94.32	98.97
28F2	GR146768	5508679	8.32KV_3P_Y1/0_AL	Overhead Line	5.7	230.0000		21.2	47.7	43.4	4.5	10.5	9.1	1.9	4.6	4.0	98.69	94.40	98.98
28F2	GR146778	15618809	8.32KV_3P_Y556_AL	Overhead Line	25.8	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.70	94.46	98.98
28F2	GR146779	5508674	8.32KV_3P_Y1/0_AL	Overhead Line	6.4	230.0000		28.0	28.2	38.5	5.9	6.2	8.1	2.6	2.7	3.5	98.75	94.65	99.00
28F2	GR146789	15615569	8.32KV_3P_Y556_AL	Overhead Line	3.2	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.84	94.96	99.04
28F2	GR146871	16466074	8.32KV_3P_Y556_AL	Overhead Line	14.1	530.0000		55.1	55.1	55.1	11.6	12.0	11.6	2.2	2.3	2.2	99.01	95.58	99.11
28F2	GR146872	15611765	8.32KV_3P_N1/0_AL	Overhead Line	2.5	230.0000		55.1	55.1	55.1	11.6	12.0	11.6	5.0	5.2	5.0	99.01	95.58	99.11
28F2	GR146877	16439258	8.32KV_3P_Y556_AL	Overhead Line	2.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.01	95.58	99.11
28F2	GR146878	18102969	8.32KV_3P_Y556_AL	Overhead Line	4.0	530.0000		5.3	11.9	10.8	1.1	2.5	2.3	0.2	0.5	0.4	99.95	99.73	99.93
28F2	GR146883	5511043	8.32KV_3P_Y336_AL	Overhead Line	3.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.99	99.97	99.99
28F2	GR146884	5511039	8.32KV_3P_Y336_AL	Overhead Line	22.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.99	99.97	99.99
28F2	GR145686	TP6655-11359591	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			98.64
28F2	GR145691	TP6654-11359649	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			98.53
28F2	GR145696	TP6653-11360032	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.46
28F2	GR145702	TP5585-5524527	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			98.33
28F2	GR145707	TP5574-1676020	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.23
28F2	GR145712	TP5575-1676021	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.21
28F2	GR145717	TP5576-1676022	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.15
28F2	GR145722	TP5577-1676023	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.11
28F2	GR145728	GB000158-5524908	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			98.05
28F2	GR145733	TP5296-1676010	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			98.02
28F2	GR145738	TP5297-5524531	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.99
28F2	GR145744	TP5572-5524698	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.99
28F2	GR145757	TP5295-5524017	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.68
28F2	GR145766	GB020172-1676109	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.82		
28F2	GR145771	GB020173-1676110	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.81		
28F2	GR145776	GB020179-1676112	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.79		
28F2	GR145781	TP2793-1697833	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.78		
28F2	GR145786	TP2794-1698289	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.78		
28F2	GR145791	GB020178-1678668	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.78		
28F2	GR145797	TP4761-11234276	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			95.20	
28F2	GR145802	TP6656-11358983	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.2			23.6			95.15	
28F2	GR145807	TP4762-11234278	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			95.11	
28F2	GR145812	TP4763-11234282	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			95.08	
28F2	GR145817	TP9249-12986760	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			3.9			23.6			95.02	
28F2	GR145822	TP9251-12986758	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			94.99	
28F2	GR145827	TP9250-12986759	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			3.9			23.6			94.98	
28F2	GR145832	TP4764-11234284	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			94.97	
28F2	GR145880	TP7215-11473129	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			93.84	
28F2	GR145885	TP7214-11473124	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			93.83	
28F2	GR145891	TP6792-11373089	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			3.9			23.6			93.80	
28F2	GR145901	TP7210-11473115	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.40		
28F2	GR145906	TP7211-11473160	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.39		
28F2	GR145911	TP7212-11473156	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.38		
28F2	GR145916	TP7213-11473146	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.38		
28F2	GR145926	TP7216-11473167	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.40
28F2	GR145931	TP7286-1686281	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			98.38
28F2	GR145937	TP7219-11479000	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.36
28F2	GR145943	TP6797-11373116	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			98.35
28F2	GR145948	TP7479-13126979	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			98.18
28F2	GR145955	X58438-15615469	8.32KV_120V/208V_150_3P	Two-Winding Transformer	0.0		150.00	5.3	11.9	10.8	1.1	2.6	2.3	10.5	23.6	21.6	98.41	93.81	98.41
28F2	GR145957	X58437-15615468	8.32KV_120V/208V_75_3P	Two-Winding Transformer	0.0		75.00	2.6	5.9	5.4	0.6	1.3	1.1	3.5	7.9	7.2	98.68	94.40	98.93
28F2	GR145985	TP12160-16421938	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.49	
28F2	GR145990	TP12161-16421954	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.44	
28F2	GR145995	TP12162-16421956	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.34	
28F2	GR146000	TP12163-16421955	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.32	
28F2	GR146005	TP12164-16421957	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.25	
28F2	GR146010	TP12165-16421959	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.22	
28F2	GR146015	TP12166-16421960	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.18	
28F2	GR146020	TP12167-16421961	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.17	
28F2	GR146025	TP12168-16421962	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.16	
28F2	GR146030	TP12151-16421936	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.2			10.5			97.90		
28F2	GR146035	TP12152-16421943	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.2			10.5			97.88		
28F2	GR146040	TP12153-16421945	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.2			10.5			97.85		
28F2	GR146045	TP12154-16421947	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.2			10.5			97.83		
28F2	GR146050	TP12155-16421948	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.2			10.5			97.82		

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
28F2	GR146055	TP12156-16421949	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.2			10.5			97.82		
28F2	GR146060	TP12157-16421950	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.2			10.5			97.82		
28F2	GR146065	TP13957-18175192	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			98.00
28F2	GR146070	TP13956-18175425	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.98
28F2	GR146075	TP13955-18175618	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.97
28F2	GR146080	TP13954-18175626	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.72
28F2	GR146123	TP13948-18175207	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			97.83
28F2	GR146128	TP13949-18175621	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.79
28F2	GR146133	TP13950-18175622	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.78
28F2	GR146138	TP13951-18175624	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.74
28F2	GR146143	TP13952-18177025	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.73
28F2	GR146148	TP13953-18175625	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			97.72
28F2	GR146158	TP12158-16421941	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.37	
28F2	GR146163	TP12159-16421942	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.34	
28F2	GR146168	TP12174-16421963	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.23	
28F2	GR146173	TP12173-16421964	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.19	
28F2	GR146178	TP12172-16421966	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.17	
28F2	GR146183	TP12171-16421967	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.16	
28F2	GR146188	TP12170-16421968	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.15	
28F2	GR146193	TP12169-16421939	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.15	
28F2	GR146203	TP13964-18179296	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			97.92		
28F2	GR146208	TP13969-18196980	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.2			10.5			97.91		
28F2	GR146214	TP13968-18196978	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.2			10.5			97.91		
28F2	GR146221	TP13963-18179293	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			98.13
28F2	GR146227	TP13970-18196963	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			98.07
28F2	GR146232	TP13971-18196956	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			36.2			7.6			21.6			98.04
28F2	GR146237	TP13972-18196954	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			98.05
28F2	GR146245	TP13958-18179292	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		39.7			8.9			23.6			91.86	
28F2	GR146251	TP13959-18180924	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		39.7			9.0			23.6			91.76	
28F2	GR146256	TP13960-18180693	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		39.7			9.0			23.6			91.71	
28F2	GR146261	TP13961-18180692	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		39.7			9.0			23.6			91.71	
28F2	GR146266	TP13962-18180690	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.4			23.6			91.71	
28F2	GR146275	TP13965-18196981	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	17.7			3.7			10.5			97.92		
28F2	GR146280	TP13966-18196977	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	17.7			3.7			10.5			97.90		
28F2	GR146285	TP13967-18196976	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	17.7			3.7			10.5			97.89		
28F2	GR146292	TP5588-5513104	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			98.30
28F2	GR146297	TP5589-1691402	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			98.29
28F2	GR146341	X36172-5526304	8.32KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			8.1			1.7			21.6			98.38
28F2	GR146343	X36173-5525936	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.38
28F2	GR146347	X36170-5525766	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.39
28F2	GR146352	GB000232-1676017	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			98.39
28F2	GR146355	X67872-5525740	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			98.41
28F2	GR146375	X36040-1676051	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.20		
28F2	GR146377	X36031-1676013	8.32KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50	4.0			0.8			10.5			98.20		
28F2	GR146379	X36026-1682297	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.21		
28F2	GR146382	X36168-5525934	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	2.6			0.6			10.5			98.21		
28F2	GR146392	X36162-5525562	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			92.90	
28F2	GR146417	X35418-5525055	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.7			23.6			92.79	
28F2	GR146424	X36156-5524716	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			4.0			23.6			92.79	
28F2	GR146426	X36032-5525240	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		5.9			1.3			23.6			92.79	
28F2	GR146437	X36034-5525054	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.7			23.6			92.78	
28F2	GR146440	X36049-10004951	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			4.0			23.6			92.80	
28F2	GR146442	X36154-1676001	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		5.9			1.3			23.6			92.83	
28F2	GR146471	TP5592-5513481	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.41
28F2	GR146477	TP5593-5525921	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.41
28F2	GR146483	X35882-5525944	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.41
28F2	GR146485	X35875-5525735	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.42
28F2	GR146487	X67865-18121892	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.42
28F2	GR146511	X36028-5525371	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		5.9			1.3			23.6			92.88	
28F2	GR146518	X36164-5525070	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			4.0			23.6			92.88	
28F2	GR146520	X36027-5525373	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			92.89	
28F2	GR146524	X36163-5525214	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		5.9			1.3			23.6			92.89	
28F2	GR146527	X36167-5525046	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		3.6			0.8			23.6			92.90	
28F2	GR146529	X36165-5525195	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			92.92	
28F2	GR146531	X36042-5525217	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			4.0			23.6			92.94	
28F2	GR146536	X36030-5525561	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.3			23.6			92.96	
28F2	GR146548	TP5594-5526453	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.2			10.5			98.19		
28F2	GR146562	X32990-5525938	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.19		
28F2	GR146564	X32992-5526303	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.19		
28F2	GR146569	X32903-5513282	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.20		
28F2	GR146571	X32907-5526302	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	2.6			0.6			10.5			98.20		
28F2	GR146573	X32917-5524513	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	2.6			0.6			10.5			98.21		
28F2	GR146578	TP5298-5526098	8.32KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	10.6	23.8	21.7	2.2	5.3	4.6	10.5	23.6	21.6	98.15	93.07	98.27

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)
28F2	GR146583	TP5591-5526472	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			98.41
28F2	GR146588	TP5590-1676019	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			98.40
28F2	GR146594	X55663-15631721	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.21		
28F2	GR146600	X36159-1681774	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	2.6			0.6			10.5			98.21		
28F2	GR146614	X32924-5526088	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.15		
28F2	GR146626	X26521-5526089	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.13		
28F2	GR146628	X32918-5526090	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.13		
28F2	GR146630	X32901-1687213	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.13		
28F2	GR146644	X36047-5526476	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.11		
28F2	GR146646	X32921-5526475	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.11		
28F2	GR146656	X35398-5526091	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.12		
28F2	GR146658	X32999-5512916	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.12		
28F2	GR146660	X32991-1687209	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.12		
28F2	GR146662	X32912-1681559	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.14		
28F2	GR146664	X46064-5526305	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.2			10.5			98.17		
28F2	GR146672	X36046-1687210	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.17		
28F2	GR146679	X32919-5526300	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.19		
28F2	GR146681	X32982-5513117	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			98.19		
28F2	GR146688	GB020124-1678117	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			93.48	
28F2	GR146693	GB020125-1686282	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			3.9			23.6			93.45	
28F2	GR146698	TP4168-5526279	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			93.43	
28F2	GR146703	TP4170-5526111	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			93.42	
28F2	GR146708	TP4169-5526094	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			93.41	
28F2	GR146713	GB020123-1653452	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			98.37
28F2	GR146718	TP7478-13126972	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			98.28
28F2	GR146723	TP10493-14677778	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			98.24
28F2	GR146728	TP10492-14677773	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			98.22
28F2	GR146733	TP10491-14677768	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			98.20
28F2	GR146738	TP7480-13126980	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			98.19
28F2	GR146745	GB020122-1653451	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.35		
28F2	GR146750	TP6793-11373093	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.31		
28F2	GR146755	TP6795-11373105	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.29		
28F2	GR146760	TP6796-11373110	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			98.29		
28F2	GR146766	TP5568-5525941	8.32KV_120V/208V_225_3P	Two-Winding Transformer	0.0		225.00	23.2	23.3	23.2	4.9	5.1	4.9	30.6	30.6	30.6	97.50	93.09	97.81
28F2	GR146771	TP5586-5510978	8.32KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	10.6	23.8	21.7	2.2	5.3	4.6	10.5	23.6	21.6	98.35	93.66	98.32
28F2	GR146776	GB000153-5524673	8.32KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	10.6	23.8	21.7	2.2	5.3	4.6	10.5	23.6	21.6	98.35	93.65	98.32
28F2	GR146787	TV5850-5526510	8.32KV_120V/208V_501_3P	Two-Winding Transformer	0.0		501.00	28.0	28.2	38.5	5.9	6.2	8.1	5.6	5.6	7.7	98.68	94.63	98.94
28F2	GR146875	TP3375-5524033	8.32KV_347V/600V_500_3P	Two-Winding Transformer	0.0		500.00	55.1	55.1	55.1	11.6	12.0	11.6	32.7	32.7	32.7	97.84	94.36	97.94
28F2	GR146881	RHSSST2-18184291	8.32KV_120V/208V_150_3P	Two-Winding Transformer	0.0		150.00	5.3	11.9	10.8	1.1	2.5	2.3	10.5	23.6	21.6	99.66	99.13	99.38

B

Appendix B4

Mitigation Detailed Loading

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
SK16	GR233819	7000707	DEFAULT	Cable	0.1	100.0000		127.2	319.9	160.9	53.1	134.0	67.2	53.1	134.0	67.2	99.78	99.39	99.69	0.1
SK16	GR233820	7000711	DEFAULT	Cable	0.1	100.0000		127.2	319.9	160.9	53.1	134.0	67.2	53.1	134.0	67.2	99.78	99.39	99.69	0.2
SK16	GR233821	7000712	DEFAULT	Cable	0.1	100.0000		127.2	319.9	160.9	53.1	134.0	67.2	53.1	134.0	67.2	99.78	99.39	99.69	0.3
SK16	GR233822	7028098	4.16KV_3P_350_CU_PILC	Cable	0.7	340.0000		127.2	319.9	160.9	53.1	134.0	67.2	15.6	39.4	19.8	99.78	99.38	99.69	1.0
SK16	GR233823	7031235	4.16KV_3P_500_CU_PILC	Cable	45.1	425.0000		127.2	319.9	160.9	53.1	134.0	67.2	12.5	31.5	15.8	99.84	99.29	99.67	46.0
SK16	GR233824	11377657	4.16KV_3P_500_CU_PILC	Cable	51.8	425.0000		127.3	319.6	160.9	53.1	134.0	67.2	12.5	31.5	15.8	99.90	99.19	99.64	97.8
SK16	GR233825	11377659	4.16KV_3P_500_CU_PILC	Cable	44.3	425.0000		127.3	319.2	160.9	53.1	134.0	67.2	12.5	31.5	15.8	99.96	99.10	99.62	142.1
SK16	GR233826	11377738	4.16KV_3P_500_CU_PILC	Cable	66.2	425.0000		127.4	319.0	160.8	53.1	134.0	67.2	12.5	31.5	15.8	100.04	98.97	99.59	208.4
SK16	GR233827	11377739	4.16KV_3P_500_CU_PILC	Cable	68.4	425.0000		127.5	318.5	160.8	53.1	134.0	67.2	12.5	31.5	15.8	100.13	98.84	99.56	276.7
SK16	GR233828	11377740	4.16KV_3P_500_CU_PILC	Cable	30.1	425.0000		127.6	318.1	160.7	53.1	134.0	67.2	12.5	31.5	15.8	100.17	98.78	99.55	306.8
SK16	GR233829	11377741	4.16KV_3P_500_CU_PILC	Cable	54.0	425.0000		127.7	317.9	160.7	53.1	134.0	67.2	12.5	31.5	15.8	100.24	98.67	99.53	360.8
SK16	GR233830	11377761	4.16KV_3P_500_CU_PILC	Cable	40.6	425.0000		127.8	317.6	160.7	53.1	134.0	67.2	12.5	31.5	15.8	100.29	98.59	99.51	401.4
SK16	GR233831	11377769	4.16KV_3P_500_CU_PILC	Cable	68.5	425.0000		127.8	317.3	160.6	53.1	134.0	67.2	12.5	31.5	15.8	100.37	98.45	99.48	469.9
SK16	GR233832	11378097	4.16KV_3P_500_CU_PILC	Cable	66.6	425.0000		127.9	316.9	160.6	53.1	134.0	67.2	12.5	31.5	15.8	100.46	98.32	99.45	536.5
SK16	GR233833	11378115	4.16KV_3P_500_CU_PILC	Cable	83.7	425.0000		128.0	316.4	160.6	53.1	134.0	67.2	12.5	31.5	15.8	100.56	98.15	99.42	620.2
SK16	GR233834	11378134	4.16KV_3P_500_CU_PILC	Cable	87.1	425.0000		128.2	315.9	160.5	53.1	134.0	67.2	12.5	31.5	15.8	100.67	97.98	99.38	707.4
SK16	GR233835	11378136	4.16KV_3P_500_CU_PILC	Cable	101.2	425.0000		128.3	315.4	160.4	53.1	134.0	67.2	12.5	31.5	15.8	100.80	97.78	99.34	808.6
SK16	GR233836	11572623	4.16KV_3P_500_CU_XLPE	Cable	29.0	455.0000		128.5	314.7	160.4	53.1	134.0	67.2	11.7	29.5	14.8	100.79	97.74	99.32	837.6
SK16	GR233841	11433933	4.16KV_3P_1/0_CU_XLPE	Cable	18.3	220.0000		9.2	17.4	12.8	3.8	7.4	5.4	1.7	3.4	2.4	100.73	97.56	99.31	935.1
SK16	GR233852	12546719	4.16KV_1P_1/0_CU_TRXLPE	Cable	131.6	220.0000			77.2			33.0			15.0			97.11		1248.2
SK16	GR233853	12546737	4.16KV_1P_1/0_CU_TRXLPE	Cable	13.1	220.0000			77.1			33.0			15.0			97.09		1261.3
SK16	GR233854	12546738	4.16KV_1P_1/0_CU_TRXLPE	Cable	69.9	220.0000			77.1			33.0			15.0			97.02		1331.2
SK16	GR233859	11371339	4.16KV_1P_1/0_CU_XLPE	Cable	16.6	220.0000			64.2			27.6			12.5			97.01		1347.8
SK16	GR233860	7031003	4.16KV_1P_1/0_AL_XLPE	Cable	55.2	220.0000			64.2			27.6			12.5			96.96		1403.0
SK16	GR233861	7031004	4.16KV_1P_1/0_AL_XLPE	Cable	89.9	220.0000			64.2			27.6			12.5			96.88		1492.9
SK16	GR233866	7027758	4.16KV_1P_1/0_AL_XLPE	Cable	16.3	220.0000			51.4			22.1			10.0			96.87		1509.2
SK16	GR233867	7031005	4.16KV_1P_1/0_CU_XLPE	Cable	116.7	220.0000			51.4			22.1			10.0			96.79		1625.9
SK16	GR233868	7031007	4.16KV_1P_1/0_AL_XLPE	Cable	50.3	220.0000			51.3			22.1			10.0			96.75		1676.2
SK16	GR233869	7031218	4.16KV_1P_1/0_AL_XLPE	Cable	55.7	220.0000			51.3			22.1			10.0			96.71		1731.9
SK16	GR233870	15473472	4.16KV_1P_1/0_CU_TRXLPE	Cable	64.8	220.0000			51.3			22.1			10.0			96.67		1796.7
SK16	GR233871	15473477	4.16KV_1P_1/0_CU_TRXLPE	Cable	1.9	220.0000			51.2			22.1			10.0			96.67		1798.6
SK16	GR233874	15473461	4.16KV_1P_1/0_CU_TRXLPE	Cable	1.9	220.0000			38.5			16.6			7.5			96.67		1800.5
SK16	GR233875	15473455	4.16KV_1P_1/0_CU_TRXLPE	Cable	59.9	220.0000			38.5			16.6			7.5			96.63		1860.5
SK16	GR233876	7031219	4.16KV_1P_1/0_AL_XLPE	Cable	55.0	220.0000			38.5			16.6			7.5			96.61		1915.4
SK16	GR233877	7031217	4.16KV_1P_1/0_AL_XLPE	Cable	50.0	220.0000			38.4			16.6			7.5			96.58		1965.4
SK16	GR233878	7031006	4.16KV_1P_1/0_CU_XLPE	Cable	116.5	220.0000			38.4			16.6			7.5			96.52		2081.9
SK16	GR233879	7028383	4.16KV_1P_1/0_AL_XLPE	Cable	69.4	220.0000			38.4			16.6			7.5			96.48		2151.3
SK16	GR233880	7032430	4.16KV_1P_1/0_CU_TRXLPE	Cable	123.9	220.0000			38.4			16.6			7.5			96.42		2275.2
SK16	GR233885	7032429	4.16KV_1P_1/0_AL_XLPE	Cable	120.5	220.0000			25.6			11.1			5.0			96.38		2395.7
SK16	GR233886	18051902	4.16KV_1P_1/0_AL_XLPE	Cable	2.7	220.0000			25.6			11.1			5.0			96.38		2398.4
SK16	GR233887	7028384	4.16KV_1P_1/0_AL_XLPE	Cable	65.9	220.0000			25.6			11.1			5.0			96.35		2464.3
SK16	GR233888	7028385	4.16KV_1P_1/0_AL_XLPE	Cable	62.7	220.0000			25.6			11.1			5.0			96.33		2527.0
SK16	GR233889	7028386	4.16KV_1P_1/0_AL_XLPE	Cable	81.2	220.0000			25.6			11.1			5.0			96.30		2608.2
SK16	GR233890	7028395	4.16KV_1P_1/0_AL_XLPE	Cable	46.9	220.0000			25.6			11.1			5.0			96.29		2655.1
SK16	GR233891	7032528	4.16KV_1P_1/0_AL_XLPE	Cable	9.3	220.0000			25.6			11.1			5.0			96.28		2664.4
SK16	GR233894	7032550	4.16KV_1P_1/0_AL_XLPE	Cable	10.8	220.0000			12.8			5.5			2.5			96.28		2675.2
SK16	GR233895	7032549	4.16KV_1P_1/0_AL_XLPE	Cable	46.3	220.0000			12.8			5.5			2.5			96.27		2721.5
SK16	GR233896	7028389	4.16KV_1P_1/0_AL_XLPE	Cable	73.0	220.0000			12.8			5.5			2.5			96.26		2794.5
SK16	GR233897	7028392	4.16KV_1P_1/0_AL_XLPE	Cable	106.5	220.0000			12.8			5.5			2.5			96.24		2901.0
SK16	GR233898	7030750	4.16KV_1P_350_AL_XLPE	Cable	51.1	390.0000			12.8			5.5			1.4			96.24		2952.2
SK16	GR233899	11300628	4.16KV_1P_350_AL_XLPE	Cable	60.3	390.0000			12.8			5.5			1.4			96.23		3012.5
SK16	GR233900	7030749	4.16KV_1P_350_AL_XLPE	Cable	19.9	390.0000			12.8			5.5			1.4			96.23		3032.4
SK16	GR233905	12973600	4.16KV_1P_1/0_CU_XLPE	Cable	19.8	220.0000			0.0			0.0			0.0			96.23		3052.2
SK16	GR233906	11271520	4.16KV_1P_1/0_CU_XLPE	Cable	70.7	220.0000			0.0			0.0			0.0			96.23		3122.9
SK16	GR233907	11271635	4.16KV_1P_1/0_CU_XLPE	Cable	144.6	220.0000			0.0			0.0			0.0			96.23		3267.4
SK16	GR233908	11371350	4.16KV_1P_1/0_CU_XLPE	Cable	88.5	220.0000			0.0			0.0			0.0			96.23		3356.0
SK16	GR233909	11371351	4.16KV_1P_1/0_CU_XLPE	Cable	99.9	220.0000			0.0			0.0			0.0			96.23		3455.9
SK16	GR233910	11371352	4.16KV_1P_1/0_CU_XLPE	Cable	88.4	220.0000			0.0			0.0			0.0			96.23		3544.3
SK16	GR233911	11371353	4.16KV_1P_1/0_CU_XLPE	Cable	83.7	220.0000			0.0			0.0			0.0			96.23		3628.0
SK16	GR233912	11371354	4.16KV_1P_1/0_CU_XLPE	Cable	66.7	220.0000			0.0			0.0			0.0			96.23		3694.7
SK16	GR233913	11372077	4.16KV_1P_1/0_CU_PILC	Cable	4.7	210.0000			0.0			0.0			0.0			96.23		3699.4
SK16	GR233924	11372060	4.16KV_1P_1/0_CU_XLPE	Cable	14.7	220.0000			64.0			27.4			12.5			97.26		1116.6
SK16	GR233925	11372178	4.16KV_1P_1/0_CU_XLPE	Cable	83.4	220.0000			64.0			27.4			12.5			97.19		1200.0
SK16	GR233926	11372061	4.16KV_1P_1/0_CU_XLPE	Cable	3.8	220.0000			64.0			27.4			12.5			97.18		1203.8
SK16	GR233931	11372069	4.16KV_1P_1/0_CU_XLPE	Cable	3.3	220.0000			51.2			21.9			10.0			97.18		1207.1
SK16	GR233932	11372170	4.16KV_1P_1/0_CU_XLPE	Cable	99.5	220.0000			51.2			21.9			10.0			97.11		1306.6
SK16	GR233933	11371401	4.16KV_1P_1/0_CU_XLPE	Cable	88.2	220.0000			51.2			21.9			10.0			97.05		1394.8
SK16	GR233934	11371400	4.16KV_1P_1/0_CU_XLPE	Cable	30.9	220.0000			51.1			21.9			10.0			97.03		1425.7
SK16	GR233939	11371395	4.16KV_1P_1/0_CU_XLPE	Cable	31.0	220.0000			38.4			16.5			7.5			97.01		1456.7
SK16	GR233940	11371393	4.16KV_1P_1/0_CU_XLPE	Cable	60.5	220.0000			38.3			16.5			7.5			96.98		1517.2
SK16	GR233945	11371392	4.16KV_1P_1/0_CU_XLPE	Cable	32.6	220.0000			25.6			11.0			5.0			96.97		1549.8
SK16	GR233946	11372117	4.16KV_1P_1/0_CU_XLPE	Cable	65.5	220.0000			25.6			11.0			5.0			96.95		1615.3
SK16	GR233947	11371381	4.16KV_1P_1/0_CU_PILC	Cable	4.5	210.0000			25.6			11.0			5.2			96.95		1619.7
SK16	GR233957	7033687	4.16KV_1P_350_AL_XLPE	Cable	5.4	390.0000			25.5			10.9			2.8			97.33		1044.6
SK16	GR233962	7033684	4.16KV_1P_350_AL_XLPE	Cable	5.0	390.0000			0.0			0.0			0.0			97.33		1043.1
SK16	GR233975	7032678	4.16KV_1P_1/0_AL_XLPE	Cable	11.0	220.0000		18.3			7.6			3.4			100.65			1190.6
SK16	GR233993	7028122	4.16KV_1P_1/0_AL_XLPE	Cable	4.3	220.0000				12.8			5.4			2.4			98.67	1596.0
SK16	GR234002	7033379	DEFAULT	Cable	21.7	100.0000				19.2			8.1			8.1			98.62	1746.1
SK16	GR234003	7028214	4.16KV_1P_1/0_AL_XLPE	Cable	15.7	220.0000				19.2			8.1			3.7			98.61	1761.8
SK16	GR234004	7028216	4.16KV_1P_1/0_AL_XLPE	Cable	3.4	220.0000				19.2			8.1			3.7			98.61	1765.2
SK16	GR234010	11288149	4.16KV_3P_350_CU_PILC	Cable	29.3	340.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.60	97.49	98.61	1796.4
SK16	GR234011	11284458	4.16KV_3P_350_CU_XLPE	Cable	1.0	390.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.60	97.49	98.61	1797.4
SK16	GR234030	7030498	4.16KV_1P_1/0_AL_XLPE	Cable	11.1	220.0000				19.2			8.1			3.7			98.71	1546.4
SK16	GR234035	7032953	4.16KV_1P_1/0_CU_XLPE	Cable	2.6	220.0000		9.2			3.8			1.7			100.63			1508.0

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
SK16	GR234076	7000713	DEFAULT	Cable	0.1	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.78	99.39	99.69	0.3
SK16	GR233837	11573391	4.16KV_3P_N4/0_CU	Overhead Line	5.5	480.0000		128.5	314.6	160.3	53.1	134.0	67.2	11.1	27.9	14.0	100.79	97.73	99.32	843.0
SK16	GR233838	11572768	4.16KV_3P_Y4/0_CU	Overhead Line	40.9	480.0000		128.5	288.5	160.3	53.1	122.9	67.2	11.1	25.6	14.0	100.75	97.63	99.31	883.9
SK16	GR233839	7032944	4.16KV_3P_Y4/0_CU	Overhead Line	29.8	480.0000		114.7	288.2	160.3	47.4	122.9	67.2	9.9	25.6	14.0	100.73	97.56	99.31	913.7
SK16	GR233840	11433893	4.16KV_3P_N4/0_CU	Overhead Line	3.1	480.0000		9.2	17.4	12.8	3.8	7.4	5.4	0.8	1.5	1.1	100.73	97.56	99.31	916.8
SK16	GR233845	7033574	4.16KV_3P_Y4/0_CU	Overhead Line	31.4	480.0000		105.5	270.6	147.5	43.6	115.5	61.9	9.1	24.1	12.9	100.70	97.49	99.31	945.1
SK16	GR233846	7033281	4.16KV_1P_Y4/0_CU	Overhead Line	34.9	480.0000			218.3			93.2			19.4			97.42		980.0
SK16	GR233847	7033492	4.16KV_1P_Y4/0_CU	Overhead Line	34.3	480.0000			199.0			85.1			17.7			97.36		1014.2
SK16	GR233848	7033247	4.16KV_1P_Y1/0_CU	Overhead Line	28.5	310.0000			90.1			38.5			12.4			97.33		1042.7
SK16	GR233849	7033248	4.16KV_1P_Y1/0_CU	Overhead Line	44.2	310.0000			90.0			38.5			12.4			97.28		1086.9
SK16	GR233850	7033249	4.16KV_1P_Y1/0_CU	Overhead Line	28.7	310.0000			90.0			38.5			12.4			97.24		1115.6
SK16	GR233851	7031810	4.16KV_1P_Y1/0_CU	Overhead Line	1.0	310.0000			77.2			33.0			10.7			97.24		1116.6
SK16	GR233918	7033676	4.16KV_1P_Y1/0_CU	Overhead Line	29.8	310.0000			12.8			5.5			1.8			97.24		1145.4
SK16	GR233921	7033457	4.16KV_1P_Y1/0_CU	Overhead Line	19.6	310.0000			108.8			46.5			15.0			97.33		1033.8
SK16	GR233922	7031221	4.16KV_1P_Y1/0_CU	Overhead Line	25.0	310.0000			83.2			35.6			11.5			97.31		1058.7
SK16	GR233923	7033493	4.16KV_1P_Y1/0_CU	Overhead Line	43.2	310.0000			64.1			27.4			8.8			97.27		1101.9
SK16	GR233954	7033250	4.16KV_1P_Y1/0_CU	Overhead Line	2.2	310.0000			25.5			10.9			3.5			97.33		1036.0
SK16	GR233955	7033166	4.16KV_1P_Y1/0_CU	Overhead Line	1.2	310.0000			25.5			10.9			3.5			97.33		1037.2
SK16	GR233956	7033251	4.16KV_1P_Y1/0_CU	Overhead Line	2.0	310.0000			25.5			10.9			3.5			97.33		1039.2
SK16	GR233961	7033252	4.16KV_1P_Y1/0_CU	Overhead Line	0.9	310.0000			0.0			0.0			0.0			97.33		1038.1
SK16	GR233966	9020414	4.16KV_3P_Y4/0_CU	Overhead Line	2.5	480.0000		105.5	52.1	147.5	43.6	22.2	61.9	9.1	4.6	12.9	100.70	97.49	99.31	947.5
SK16	GR233967	7033594	4.16KV_3P_Y4/0_CU	Overhead Line	28.5	480.0000		105.5	52.1	147.5	43.6	22.2	61.9	9.1	4.6	12.9	100.70	97.49	99.27	976.1
SK16	GR233968	7033575	4.16KV_3P_Y4/0_CU	Overhead Line	44.2	480.0000		105.4	52.1	147.5	43.6	22.2	61.9	9.1	4.6	12.9	100.69	97.48	99.21	1020.3
SK16	GR233969	7033576	4.16KV_3P_Y4/0_CU	Overhead Line	38.0	480.0000		105.4	52.1	134.6	43.6	22.2	56.5	9.1	4.6	11.8	100.68	97.47	99.17	1058.3
SK16	GR233970	7031871	4.16KV_3P_Y4/0_CU	Overhead Line	38.8	480.0000		105.4	34.7	134.6	43.6	14.8	56.5	9.1	3.1	11.8	100.67	97.47	99.12	1097.1
SK16	GR233971	7033577	4.16KV_3P_Y4/0_CU	Overhead Line	39.9	480.0000		105.4	34.7	115.3	43.6	14.8	48.5	9.1	3.1	10.1	100.66	97.47	99.07	1137.0
SK16	GR233972	7033578	4.16KV_3P_Y4/0_CU	Overhead Line	39.5	480.0000		91.7	34.7	115.3	37.9	14.8	48.5	7.9	3.1	10.1	100.65	97.47	99.03	1176.4
SK16	GR233973	7032057	4.16KV_1P_Y4/0_CU	Overhead Line	1.3	480.0000		18.3			7.6			1.6			100.65			1177.7
SK16	GR233974	7032058	4.16KV_1P_Y1/0_CU	Overhead Line	1.8	310.0000		18.3			7.6			2.4			100.65			1179.6
SK16	GR233979	7032690	4.16KV_3P_Y4/0_CU	Overhead Line	22.6	480.0000		73.3	34.7	115.2	30.3	14.8	48.5	6.3	3.1	10.1	100.65	97.46	99.01	1199.0
SK16	GR233980	7032689	4.16KV_3P_Y4/0_CU	Overhead Line	37.8	480.0000		73.3	34.7	115.2	30.3	14.8	48.5	6.3	3.1	10.1	100.65	97.46	98.97	1236.8
SK16	GR233981	7032688	4.16KV_3P_Y4/0_CU	Overhead Line	41.3	480.0000		73.3	34.7	115.2	30.3	14.8	48.5	6.3	3.1	10.1	100.65	97.45	98.93	1278.1
SK16	GR233982	7032687	4.16KV_3P_Y4/0_CU	Overhead Line	32.9	480.0000		73.3	34.7	115.1	30.3	14.8	48.5	6.3	3.1	10.1	100.65	97.44	98.89	1311.0
SK16	GR233983	11291292	4.16KV_3P_N4/0_CU	Overhead Line	18.2	480.0000		68.8	26.1	108.7	28.4	11.1	45.8	5.9	2.3	9.5	100.65	97.44	98.87	1329.2
SK16	GR233984	11274730	4.16KV_3P_Y4/0_CU	Overhead Line	32.0	480.0000		68.8	26.1	76.8	28.4	11.1	32.3	5.9	2.3	6.7	100.64	97.44	98.85	1361.2
SK16	GR233985	7032684	4.16KV_3P_Y4/0_CU	Overhead Line	33.0	480.0000		68.8	17.4	76.8	28.4	7.4	32.3	5.9	1.5	6.7	100.63	97.44	98.83	1394.2
SK16	GR233986	7032691	4.16KV_3P_Y3/0_ACSR	Overhead Line	37.7	480.0000		59.6	0.0	76.8	24.7	0.0	32.3	5.1	0.0	6.7	100.63	97.45	98.79	1431.9
SK16	GR233987	7032692	4.16KV_3P_Y3/0_ACSR	Overhead Line	34.4	480.0000		59.6	0.0	76.7	24.7	0.0	32.3	5.1	0.0	6.7	100.63	97.45	98.76	1466.4
SK16	GR233988	7032693	4.16KV_3P_Y3/0_ACSR	Overhead Line	36.9	480.0000		55.0	0.0	76.7	22.8	0.0	32.3	4.7	0.0	6.7	100.63	97.46	98.73	1503.3
SK16	GR233989	7027781	4.16KV_3P_Y3/0_ACSR	Overhead Line	26.8	480.0000		45.8	0.0	76.7	19.0	0.0	32.3	4.0	0.0	6.7	100.63	97.46	98.71	1530.1
SK16	GR233990	11265933	4.16KV_3P_N3/0_ACSR	Overhead Line	57.4	480.0000		45.8	0.0	57.5	19.0	0.0	24.3	4.0	0.0	5.1	100.63	97.47	98.67	1587.4
SK16	GR233991	11265961	4.16KV_3P_Y4/0_CU	Overhead Line	2.2	480.0000		0.0	0.0	12.8	0.0	0.0	5.4	0.0	0.0	1.1	100.63	97.47	98.67	1589.7
SK16	GR233992	7029708	4.16KV_1P_Y1/0_CU	Overhead Line	2.0	310.0000				12.8			5.4			1.7			98.67	1591.7
SK16	GR233997	7033579	4.16KV_3P_Y3/0_ACSR	Overhead Line	32.6	480.0000		45.8	0.0	44.7	19.0	0.0	18.9	4.0	0.0	3.9	100.62	97.47	98.66	1620.0
SK16	GR233998	7033580	4.16KV_3P_Y3/0_ACSR	Overhead Line	32.9	480.0000		32.1	0.0	44.7	13.3	0.0	18.9	2.8	0.0	3.9	100.62	97.48	98.64	1652.9
SK16	GR233999	7033581	4.16KV_3P_Y3/0_ACSR	Overhead Line	35.3	480.0000		32.1	0.0	31.9	13.3	0.0	13.5	2.8	0.0	2.8	100.62	97.48	98.63	1688.2
SK16	GR234000	7033582	4.16KV_3P_Y3/0_ACSR	Overhead Line	34.0	480.0000		32.1	0.0	19.2	13.3	0.0	8.1	2.8	0.0	1.7	100.61	97.49	98.62	1722.2
SK16	GR234001	7030018	DEFAULT	Overhead Line	2.3	1000.0000				19.2			8.1			0.8			98.62	1724.4
SK16	GR234008	7033583	4.16KV_3P_Y3/0_ACSR	Overhead Line	42.7	480.0000		32.1	0.0	0.0	13.3	0.0	0.0	2.8	0.0	0.0	100.60	97.49	98.61	1764.8
SK16	GR234009	11284094	4.16KV_3P_N4/0_CU	Overhead Line	2.3	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.60	97.49	98.61	1767.1
SK16	GR234012	7033584	4.16KV_3P_Y3/0_ACSR	Overhead Line	35.2	480.0000		32.1	0.0	0.0	13.3	0.0	0.0	2.8	0.0	0.0	100.59	97.50	98.61	1800.0
SK16	GR234013	7033585	4.16KV_3P_Y3/0_ACSR	Overhead Line	35.1	480.0000		22.9	0.0	0.0	9.5	0.0	0.0	2.0	0.0	0.0	100.59	97.51	98.61	1835.1
SK16	GR234014	7031184	4.16KV_3P_Y3/0_ACSR	Overhead Line	22.0	480.0000		13.7	0.0	0.0	5.7	0.0	0.0	1.2	0.0	0.0	100.58	97.51	98.61	1857.1
SK16	GR234015	7031182	4.16KV_3P_Y3/0_ACSR	Overhead Line	25.9	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.58	97.51	98.61	1883.0
SK16	GR234028	7029793	4.16KV_1P_Y1/0_CU	Overhead Line	3.3	310.0000				19.2			8.1			2.6			98.71	1533.4
SK16	GR234029	7029832	4.16KV_1P_Y1/0_CU	Overhead Line	2.0	310.0000				19.2			8.1			2.6			98.71	1535.4
SK16	GR234034	7032952	4.16KV_1P_Y1/0_CU	Overhead Line	2.0	310.0000		9.2			3.8			1.2			100.63			1505.3
SK16	GR234041	7033591	4.16KV_3P_Y4/0_CU	Overhead Line	39.6	480.0000		9.2	17.4	0.0	3.8	7.4	0.0	0.8	1.5	0.0	100.63	97.44	98.83	1433.8
SK16	GR234042	7032967	4.16KV_3P_Y4/0_CU	Overhead Line	34.7	480.0000		9.2	17.4	0.0	3.8	7.4	0.0	0.8	1.5	0.0	100.63	97.43	98.83	1468.5
SK16	GR234043	7032968	4.16KV_3P_Y4/0_CU	Overhead Line	7.2	480.0000		0.0	17.4	0.0	0.0	7.4	0.0	0.0	1.5	0.0	100.63	97.43	98.83	1475.7
SK16	GR234044	11286569	4.16KV_3P_Y4/0_CU	Overhead Line	33.2	480.0000		0.0	17.4	0.0	0.0	7.4	0.0	0.0	1.5	0.0	100.62	97.43	98.84	1508.8
SK16	GR234045	7032969	4.16KV_3P_Y4/0_CU	Overhead Line	33.2	480.0000		0.0	17.4	0.0	0.0	7.4	0.0	0.0	1.5	0.0	100.62	97.42	98.84	1542.0
SK16	GR234046	7032970	4.16KV_3P_Y4/0_CU	Overhead Line	15.5	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.62	97.42	98.84	1557.5
SK16	GR234053	7031466	4.16KV_3P_Y1/0_CU	Overhead Line	48.4	310.0000		0.0	0.0	31.9	0.0	0.0	13.4	0.0	0.0	4.3	100.66	97.44	98.86	1377.6
SK16	GR234054	7032971	4.16KV_3P_Y1/0_CU	Overhead Line	38.0	310.0000		0.0	0.0	12.8	0.0	0.0	5.4	0.0	0.0	1.7	100.66	97.44	98.85	1415.6
SK16	GR234055	7032972	4.16KV_3P_Y1/0_CU	Overhead Line	40.9	310.0000		0.0	0.0	12.8	0.0	0.0	5.4	0.0	0.0	1.7	100.66	97.44	98.84	1456.4
SK16	GR234060	7032682	4.16KV_3P_Y4/0_CU	Overhead Line	31.4	480.0000		4.6	8.6	6.3	1.9	3.7	2.7	0.4	0.8	0.6	100.65	97.44	98.89	1342.4
SK16	GR234073	7033706	4.16KV_3P_Y4/0_CU	Overhead Line	2.9	480.0000		0.0	26.1	0.0	0.0	11.1	0.0	0.0	2.3	0.0	100.79	97.73	99.32	846.0
SK16	GR233843	TP6090-11405134	4.16KV_120V/208V_150_3P	Two-Winding Transformer	0.0		150.00	9.2	17.4	12.8	3.8	7.4	5.4	18.2	34.4	25.4	100.16	96.41	98.49	935.1
SK16	GR233856	M1452-1660176	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		12.8			5.5			25.3			96.26		1331.2
SK16	GR233863	M01453-1660177	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		12.8			5.5			25.3			96.12		1492.9
SK16	GR233882	K682-1660067	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		12.8			5.5			25.3			95.65		2275.2
SK16	GR233902	M01451-1660175	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		12.8			5.5			25.3			95.47		3032.4
SK16	GR233914	M1891-1677682	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		12.8			5.5			25.3			95.52		2664.4
SK16	GR233916	K00949-1659142	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		12.8			5.5			25.3			95.91		1798.6
SK16	GR233919	X27981-1669852	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		12.8			5.5			25.3			96.48		1145.4
SK16	GR233928	TP3838-11372166	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		12.8			5.5			25.3			96.43		1203.8
SK16	GR233936	TP3840-11372145	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		12.8			5.5			25.3			96.27		1425.7
SK16	GR233942	TP3841-11372133	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		12.8			5.5			25.3			96.22		1517.2
SK16	GR233949	TP3842-11372085	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		25.5			11.0			25.3			96.19		1619.7
SK16	GR233952	X21657-1669874	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		19.2			8.2			25.3			96.55		1058.7
SK16	GR233959	K00996-1659173	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		25.5			10.9			25.3			96.57		1044.6
SK16	GR233964	X21658-1669945	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		19.2			8.2			25.3			96.67		980.0
SK16	GR233977	K01255-1659358	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	18.3			7.6			18.2			100.14			1190.6

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
SK16	GR233995	M00027-1660155	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.4			25.4			97.93	1596.0
SK16	GR234006	K01256-1659359	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			19.2			8.1			25.4			97.86	1765.2
SK16	GR234016	X30903-1652562	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	13.7			5.7			18.2			100.07			1857.1
SK16	GR234018	X30921-1665560	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	9.2			3.8			18.2			100.08			1835.1
SK16	GR234020	X30922-1665556	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	9.2			3.8			18.2			100.08			1800.0
SK16	GR234022	X30902-1665554	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.4			25.4			97.88	1688.2
SK16	GR234024	X30923-1665553	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.4			25.4			97.89	1652.9
SK16	GR234026	X27984-1665552	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	13.7			5.7			18.2			100.11			1620.0
SK16	GR234032	K01254-1659357	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			19.2			8.1			25.4			97.96	1546.4
SK16	GR234037	K00697-1658956	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	9.2			3.8			18.2			100.12			1508.0
SK16	GR234039	X30901-1665551	4.16KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	4.6			1.9			18.2			100.12			1466.4
SK16	GR234047	X30924-1665557	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		17.4			7.4			34.4			96.38		1542.0
SK16	GR234049	X30900-1665558	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	9.2			3.8			18.2			100.12			1468.5
SK16	GR234051	X27985-1669466	4.16KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		8.7			3.7			34.4			96.40		1361.2
SK16	GR234056	X27995-1677245	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.4			25.4			98.10	1456.4
SK16	GR234058	X27982-15507840	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			19.2			8.1			25.4			98.11	1377.6
SK16	GR234061	X27987-1669885	4.16KV_600V_75_3P	Two-Winding Transformer	0.0		75.00	4.6	8.6	6.3	1.9	3.7	2.7	6.1	11.5	8.5	100.59	97.33	98.81	1342.4
SK16	GR234063	X27994-1669513	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	13.7			5.7			18.2			100.15			1137.0
SK16	GR234065	X27993-1669524	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			19.2			8.0			25.4			98.38	1097.1
SK16	GR234067	X27989-1669534	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		17.4			7.4			34.4			96.43		1058.3
SK16	GR234069	X27992-1669610	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.8			5.4			25.4			98.47	1020.3
SK16	GR234071	X37579-1669577	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	13.7			5.7			18.2			100.24			883.9
SK16	GR234074	X37578-1669566	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		26.1			11.1			34.4			96.69		846.0

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2120436	14730408	BUS27.6KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		5478.6	5478.8	5480.8	343.8	343.8	344.0	57.3	57.3	57.3	100.00	100.00	100.00	0.1
LTM02	GR2120437	16475627	BUS27.6KV_3P_0A__AIR	Cable	0.1	600.0000		5478.6	5478.8	5480.8	343.8	343.8	344.0	57.3	57.3	57.3	100.00	100.00	100.00	0.2
LTM02	GR2120438	4000131	BUS27.6KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		5478.6	5478.8	5480.8	343.8	343.8	344.0	57.3	57.3	57.3	100.00	100.00	100.00	0.3
LTM02	GR2120439	15524267	27.6KV_3P_750_AL_TRXLPE	Cable	0.0	455.0000		5478.6	5478.8	5480.8	343.8	343.8	344.0	75.6	75.6	75.6	100.00	100.00	100.00	0.3
LTM02	GR2120440	11554144	27.6KV_3P_750_AL_TRXLPE	Cable	50.2	455.0000		5478.6	5478.8	5480.8	343.8	343.8	344.0	75.6	75.6	75.6	99.98	99.98	99.98	50.5
LTM02	GR2120519	4031727	27.6KV_3P_1/0_AL_XLPE	Cable	68.5	180.0000		238.3	260.7	260.2	15.2	16.6	16.6	8.4	9.2	9.2	98.54	98.54	98.53	3323.2
LTM02	GR2120583	15607926	27.6KV_3P_1/0_CU_XLPE	Cable	8.8	180.0000		53.2	53.8	44.9	3.4	3.4	2.9	1.9	1.9	1.6	98.45	98.42	98.40	3904.0
LTM02	GR2120596	4047270	27.6KV_3P_1/0_AL_XLPE	Cable	36.5	180.0000		53.2	53.8	44.9	3.4	3.4	2.9	1.9	1.9	1.6	98.44	98.42	98.40	3971.0
LTM02	GR2120631	13520964	27.6KV_3P_1/0_AL_XLPE	Cable	23.8	180.0000		79.7	87.6	85.7	5.1	5.6	5.5	2.8	3.1	3.0	98.40	98.35	98.30	4225.8
LTM02	GR2120659	18001958	27.6KV_3P_1/0_AL_TRXLPE	Cable	11.2	180.0000		132.6	134.1	112.0	8.5	8.6	7.2	4.7	4.8	4.0	98.36	98.31	98.25	4151.9
LTM02	GR2120733	18988938	27.6KV_3P_1/0_AL_XLPE	Cable	27.4	180.0000		53.2	53.8	44.9	3.4	3.4	2.9	1.9	1.9	1.6	98.14	97.98	97.81	6706.1
LTM02	GR2120792	11432622	27.6KV_3P_1/0_AL_XLPE	Cable	7.8	180.0000		53.2	53.8	44.9	3.4	3.5	2.9	1.9	1.9	1.6	97.88	97.64	97.31	6254.0
LTM02	GR2120803	18203535	27.6KV_3P_1/0_AL_XLPE	Cable	8.3	180.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.83	97.57	97.20	6519.7
LTM02	GR2120804	18203545	27.6KV_3P_1/0_AL_XLPE	Cable	122.0	180.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.83	97.57	97.20	6641.7
LTM02	GR2120811	18205263	27.6KV_3P_1/0_AL_TRXLPE	Cable	267.7	180.0000		477.3	572.8	374.1	30.6	36.8	24.2	17.0	20.5	13.4	97.78	97.50	97.15	6867.2
LTM02	GR2120812	18116923	27.6KV_1P_1/0_AL_TRXLPE	Cable	87.8	180.0000				374.0			24.2			13.4			97.13	6954.9
LTM02	GR2120813	18117007	27.6KV_1P_1/0_AL_TRXLPE	Cable	122.3	180.0000				373.9			24.2			13.4			97.11	7077.3
LTM02	GR2120818	18117120	27.6KV_1P_1/0_AL_TRXLPE	Cable	25.0	180.0000				299.1			19.3			10.7			97.11	7102.2
LTM02	GR2120823	18117140	27.6KV_1P_1/0_AL_TRXLPE	Cable	77.6	180.0000				224.3			14.5			8.1			97.10	7179.8
LTM02	GR2120828	18117172	27.6KV_1P_1/0_AL_TRXLPE	Cable	83.3	180.0000				149.5			9.7			5.4			97.10	7263.1
LTM02	GR2120833	18117176	27.6KV_1P_1/0_AL_TRXLPE	Cable	30.9	180.0000				74.8			4.8			2.7			97.10	7293.9
LTM02	GR2120838	18116997	27.6KV_1P_1/0_AL_TRXLPE	Cable	3.1	180.0000		477.1			30.6			17.0			97.78			6870.2
LTM02	GR2120843	16502866	27.6KV_1P_1/0_AL_TRXLPE	Cable	28.5	180.0000		424.2			27.2			15.1			97.77			6898.7
LTM02	GR2120848	16502818	27.6KV_1P_1/0_AL_TRXLPE	Cable	73.6	180.0000		371.1			23.8			13.2			97.76			6972.4
LTM02	GR2120849	16502865	27.6KV_1P_1/0_AL_TRXLPE	Cable	139.9	180.0000		371.1			23.8			13.2			97.74			7112.3
LTM02	GR2120854	16502863	27.6KV_1P_1/0_AL_TRXLPE	Cable	77.5	180.0000		318.0			20.4			11.3			97.73			7189.8
LTM02	GR2120859	16502862	27.6KV_1P_1/0_AL_TRXLPE	Cable	99.3	180.0000		265.0			17.0			9.5			97.72			7289.1
LTM02	GR2120864	16502861	27.6KV_1P_1/0_AL_TRXLPE	Cable	59.8	180.0000		212.0			13.6			7.6			97.71			7348.9
LTM02	GR2120869	18205363	27.6KV_1P_1/0_AL_TRXLPE	Cable	264.5	180.0000		159.0			10.2			5.7			97.70			7613.4
LTM02	GR2120874	16502857	27.6KV_1P_1/0_AL_TRXLPE	Cable	106.9	180.0000		106.0			6.8			3.8			97.69			7720.2
LTM02	GR2120879	16502856	27.6KV_1P_1/0_AL_TRXLPE	Cable	132.8	180.0000		53.0			3.4			1.9			97.69			7853.1
LTM02	GR2120884	16502855	27.6KV_1P_1/0_AL_TRXLPE	Cable	104.2	180.0000		0.0			0.0			0.0			97.69			7957.3
LTM02	GR2120885	18117363	27.6KV_1P_1/0_AL_TRXLPE	Cable	79.2	180.0000			572.5			36.8			20.5			97.48		6946.4
LTM02	GR2120890	16502869	27.6KV_1P_1/0_AL_TRXLPE	Cable	49.9	180.0000			518.8			33.4			18.6			97.47		6996.3
LTM02	GR2120891	16502870	27.6KV_1P_1/0_AL_TRXLPE	Cable	64.9	180.0000			518.7			33.4			18.6			97.46		7061.1
LTM02	GR2120896	16502871	27.6KV_1P_1/0_AL_TRXLPE	Cable	225.6	180.0000			465.1			29.9			16.6			97.41		7286.8
LTM02	GR2120901	18117385	27.6KV_1P_1/0_AL_TRXLPE	Cable	161.7	180.0000			411.3			26.5			14.7			97.38		7448.5
LTM02	GR2120906	18192235	27.6KV_1P_1/0_AL_TRXLPE	Cable	180.5	180.0000			357.6			23.0			12.8			97.36		7629.0
LTM02	GR2120911	18192234	27.6KV_1P_1/0_AL_TRXLPE	Cable	91.0	180.0000			330.7			21.3			11.8			97.35		7719.9
LTM02	GR2120916	18192233	27.6KV_1P_1/0_AL_TRXLPE	Cable	83.1	180.0000			241.2			15.5			8.6			97.34		7803.0
LTM02	GR2120921	18192375	27.6KV_1P_1/0_AL_TRXLPE	Cable	162.0	180.0000			201.0			13.0			7.2			97.32		7965.1
LTM02	GR2120926	18192253	27.6KV_1P_1/0_AL_TRXLPE	Cable	83.4	180.0000			160.7			10.4			5.8			97.32		8048.5
LTM02	GR2120931	18192254	27.6KV_1P_1/0_AL_TRXLPE	Cable	116.7	180.0000			107.2			6.9			3.8			97.31		8165.2
LTM02	GR2120936	18192255	27.6KV_1P_1/0_AL_TRXLPE	Cable	102.4	180.0000			53.6			3.5			1.9			97.31		8267.6
LTM02	GR2120992	17240985	27.6KV_3P_1000_AL_XLPE	Cable	46.1	505.0000		619.5	536.4	766.2	39.8	34.5	49.6	7.9	6.8	9.8	97.77	97.46	96.99	7138.0
LTM02	GR2120993	17240983	27.6KV_3P_1000_AL_XLPE	Cable	172.5	505.0000		619.5	536.3	766.2	39.8	34.5	49.6	7.9	6.8	9.8	97.76	97.45	96.98	7310.6
LTM02	GR2120994	17240982	27.6KV_3P_1000_AL_XLPE	Cable	109.1	505.0000		619.4	536.3	766.1	39.8	34.5	49.6	7.9	6.8	9.8	97.76	97.44	96.97	7419.6
LTM02	GR2120995	17240976	27.6KV_3P_1000_AL_XLPE	Cable	163.6	505.0000		619.4	536.3	766.1	39.8	34.5	49.6	7.9	6.8	9.8	97.75	97.44	96.96	7583.2
LTM02	GR2120996	17240969	27.6KV_3P_1000_AL_XLPE	Cable	87.9	505.0000		619.4	536.3	766.0	39.8	34.5	49.6	7.9	6.8	9.8	97.74	97.44	96.96	7671.1
LTM02	GR2120997	16501805	27.6KV_3P_1000_AL_TRXLPE	Cable	0.0	505.0000		619.3	536.2	766.0	39.8	34.5	49.6	7.9	6.8	9.8	97.74	97.44	96.96	7671.1
LTM02	GR2120998	16501665	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		619.3	536.2	766.0	39.8	34.5	49.6	6.6	5.8	8.3	97.74	97.44	96.96	7671.2
LTM02	GR2120999	16501816	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		619.3	536.2	766.0	39.8	34.5	49.6	6.6	5.8	8.3	97.74	97.44	96.96	7671.3
LTM02	GR2121000	16501713	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		619.3	482.6	287.6	39.8	31.1	18.6	6.6	5.2	3.1	97.74	97.44	96.96	7671.4
LTM02	GR2121001	16501723	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		619.3	482.6	287.6	39.8	31.1	18.6	6.6	5.2	3.1	97.74	97.44	96.96	7671.5
LTM02	GR2121002	16501819	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		619.3			39.8			6.6			97.74			7671.6
LTM02	GR2121003	16501682	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		619.3			39.8			6.6			97.74			7671.7
LTM02	GR2121004	16501808	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000		619.3			39.8			22.1			97.74			7671.7
LTM02	GR2121005	16502842	27.6KV_1P_1/0_AL_TRXLPE	Cable	90.4	180.0000		619.3			39.8			22.1			97.72			7762.1
LTM02	GR2121006	16502837	27.6KV_1P_1/0_AL_TRXLPE	Cable	92.2	180.0000		619.2			39.8			22.1			97.70			7854.3
LTM02	GR2121011	16502840	27.6KV_1P_1/0_AL_TRXLPE	Cable	54.8	180.0000		566.0			36.4			20.2			97.68			7909.1
LTM02	GR2121016	16502841	27.6KV_1P_1/0_AL_TRXLPE	Cable	31.5	180.0000		513.0			33.0			18.3			97.68			7940.6
LTM02	GR2121017	16502843	27.6KV_1P_1/0_AL_TRXLPE	Cable	163.9	180.0000		512.9			33.0			18.3			97.64			8104.4
LTM02	GR2121018	16502844	27.6KV_1P_1/0_AL_TRXLPE	Cable	108.4	180.0000		512.8			33.0			18.3			97.62			8212.8
LTM02	GR2121019	16502845	27.6KV_1P_1/0_AL_TRXLPE	Cable	36.0	180.0000		512.6			33.0			18.3			97.61			8248.9
LTM02	GR2121024	16502847	27.6KV_1P_1/0_AL_TRXLPE	Cable	17.0	180.0000		459.6			29.5			16.4			97.61			8265.9
LTM02	GR2121029	16502848	27.6KV_1P_1/0_AL_TRXLPE	Cable	98.5	180.0000		406.6			26.1			14.5			97.59			8364.4
LTM02	GR2121034	16502849	27.6KV_1P_1/0_AL_TRXLPE	Cable	53.8	180.0000		353.5			22.7			12.6			97.58			8418.2
LTM02	GR2121039	16502850	27.6KV_1P_1/0_AL_TRXLPE	Cable	27.8	180.0000		300.5			19.3			10.7			97.58			8446.0
LTM02	GR2121044	16502851	27.6KV_1P_1/0_AL_TRXLPE	Cable	54.5	180.0000		247.5			15.9			8.8			97.57			8500.5
LTM02	GR2121049	16502852	27.6KV_1P_1/0_AL_TRXLPE	Cable	122.3	180.0000		194.5			12.5			7.0			97.56			8622.8
LTM02	GR2121054	16502853	27.6KV_1P_1/0_AL_TRXLPE	Cable	54.0	180.0000		106.0			6.8			3.8			97.56			8676.8
LTM02	GR2121059	16502854	27.6KV_1P_1/0_AL_TRXLPE	Cable	139.1	180.0000		53.0			3.4			1.9			97.56			8816.0
LTM02	GR2121063	16501822	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000				287.6			18.6			3.1			96.96	7671.6
LTM02	GR2121064	16501821	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000				287.6			18.6			3.1			96.96	7671.7
LTM02	GR2121065	18117324	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000				287.6			18.6			10.3			96.96	7671.7
LTM02	GR2121066	18117293	27.6KV_1P_1/0_AL_TRXLPE	Cable	360.5	180.0000				287.6			18.6			10.3			96.91	8032.2

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2121071	16502859	27.6KV_1P_1/0_AL_TRXLPE	Cable	96.2	180.0000				242.7			15.7			8.7			96.90	8128.4
LTM02	GR2121076	18117266	27.6KV_1P_1/0_AL_TRXLPE	Cable	190.2	180.0000				197.9			12.8			7.1			96.89	8318.6
LTM02	GR2121081	18117251	27.6KV_1P_1/0_AL_TRXLPE	Cable	18.6	180.0000				153.1			9.9			5.5			96.89	8337.2
LTM02	GR2121086	18117244	27.6KV_1P_1/0_AL_TRXLPE	Cable	133.1	180.0000				108.4			7.0			3.9			96.88	8470.3
LTM02	GR2121091	18117181	27.6KV_1P_1/0_AL_TRXLPE	Cable	56.8	180.0000				74.8			4.8			2.7			96.88	8527.0
LTM02	GR2121096	18117180	27.6KV_1P_1/0_AL_TRXLPE	Cable	91.6	180.0000				0.0			0.0			0.0			96.88	8618.6
LTM02	GR2121097	16501823	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000			482.6			31.1			5.2			97.44		7671.6
LTM02	GR2121098	16501820	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000			482.6			31.1			5.2			97.44		7671.7
LTM02	GR2121099	16501809	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000			482.6			31.1			17.3			97.44		7671.7
LTM02	GR2121100	16502029	27.6KV_1P_1/0_AL_TRXLPE	Cable	159.0	180.0000			482.6			31.1			17.3			97.40		7830.7
LTM02	GR2121105	16502032	27.6KV_1P_1/0_AL_TRXLPE	Cable	40.4	180.0000			428.9			27.6			15.4			97.40		7871.1
LTM02	GR2121110	16502149	27.6KV_1P_1/0_AL_TRXLPE	Cable	202.7	180.0000			375.3			24.2			13.4			97.36		8073.8
LTM02	GR2121115	16502147	27.6KV_1P_1/0_AL_TRXLPE	Cable	98.5	180.0000			321.6			20.7			11.5			97.35		8172.3
LTM02	GR2121120	16502148	27.6KV_1P_1/0_AL_TRXLPE	Cable	182.0	180.0000			268.0			17.3			9.6			97.33		8354.3
LTM02	GR2121125	16502291	27.6KV_1P_1/0_AL_TRXLPE	Cable	144.3	180.0000			214.4			13.8			7.7			97.32		8498.6
LTM02	GR2121130	16502564	27.6KV_1P_1/0_AL_TRXLPE	Cable	95.3	180.0000			160.7			10.4			5.8			97.31		8593.9
LTM02	GR2121135	16502572	27.6KV_1P_1/0_AL_TRXLPE	Cable	87.4	180.0000			107.2			6.9			3.8			97.31		8681.2
LTM02	GR2121140	16502573	27.6KV_1P_1/0_AL_TRXLPE	Cable	12.5	180.0000			53.6			3.5			1.9			97.31		8693.8
LTM02	GR2121145	18192936	27.6KV_1P_1/0_AL_TRXLPE	Cable	103.2	180.0000			0.0			0.0			0.0			97.31		8796.9
LTM02	GR2121147	16501818	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.74	97.44	96.96	7671.5
LTM02	GR2121148	16501718	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.74	97.44	96.96	7671.6
LTM02	GR2121149	16501817	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	53.6	478.4	0.0	3.5	31.0	0.0	0.6	5.2	97.74	97.44	96.96	7671.4
LTM02	GR2121150	16501708	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	53.6	478.4	0.0	3.5	31.0	0.0	0.6	5.2	97.74	97.44	96.96	7671.5
LTM02	GR2121151	18986756	27.6KV_3P_1/0_AL_TRXLPE	Cable	0.0	180.0000		0.0	53.6	478.4	0.0	3.5	31.0	0.0	1.9	17.2	97.74	97.44	96.96	7671.5
LTM02	GR2121152	18986769	27.6KV_3P_1000_AL_XLPE	Cable	238.0	505.0000		0.0	53.6	478.4	0.0	3.5	31.0	0.0	0.7	6.1	97.74	97.44	96.95	7909.5
LTM02	GR2121153	18986764	27.6KV_3P_1000_AL_XLPE	Cable	72.5	505.0000		0.0	53.6	478.3	0.0	3.5	31.0	0.0	0.7	6.1	97.74	97.44	96.94	7982.0
LTM02	GR2121154	18190875	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		0.0	53.6	478.3	0.0	3.5	31.0	0.0	0.7	6.1	97.74	97.44	96.94	7982.0
LTM02	GR2121155	18190885	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		0.0	53.6	478.3	0.0	3.5	31.0	0.0	0.7	6.1	97.74	97.44	96.94	7982.0
LTM02	GR2121156	18190866	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	53.6	478.3	0.0	3.5	31.0	0.0	0.6	5.2	97.74	97.44	96.94	7982.1
LTM02	GR2121157	18190867	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	53.6	478.3	0.0	3.5	31.0	0.0	0.6	5.2	97.74	97.44	96.94	7982.2
LTM02	GR2121158	18190864	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	53.6	388.8	0.0	3.5	25.2	0.0	0.6	4.2	97.74	97.44	96.94	7982.3
LTM02	GR2121159	18190861	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000				388.8			25.2			4.2			96.94	7982.4
LTM02	GR2121160	18190876	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000				388.8			25.2			14.0			96.94	7982.4
LTM02	GR2121161	18190882	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000				388.8			25.2			14.0			96.94	7982.4
LTM02	GR2121162	18190965	27.6KV_1P_1/0_AL_TRXLPE	Cable	50.6	180.0000				388.8			25.2			14.0			96.94	8033.0
LTM02	GR2121167	18190959	27.6KV_1P_1/0_AL_TRXLPE	Cable	152.7	180.0000				344.0			22.3			12.4			96.91	8185.7
LTM02	GR2121172	18190950	27.6KV_1P_1/0_AL_TRXLPE	Cable	20.1	180.0000				269.1			17.4			9.7			96.91	8205.8
LTM02	GR2121177	18190958	27.6KV_1P_1/0_AL_TRXLPE	Cable	88.3	180.0000				194.3			12.6			7.0			96.90	8294.1
LTM02	GR2121182	18191010	27.6KV_1P_1/0_AL_TRXLPE	Cable	153.6	180.0000				149.6			9.7			5.4			96.89	8447.7
LTM02	GR2121187	18191046	27.6KV_1P_1/0_AL_TRXLPE	Cable	88.8	180.0000				74.8			4.8			2.7			96.89	8536.6
LTM02	GR2121191	18190862	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			97.74			7982.4
LTM02	GR2121192	18190883	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000		0.0			0.0			0.0			97.74			7982.4
LTM02	GR2121193	18190863	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000			53.6			3.5			0.6			97.44		7982.4
LTM02	GR2121194	18190884	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000			53.6			3.5			1.9			97.44		7982.4
LTM02	GR2121195	18190881	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000			53.6			3.5			1.9			97.44		7982.4
LTM02	GR2121196	18190825	27.6KV_1P_1/0_AL_TRXLPE	Cable	325.5	180.0000			53.6			3.5			1.9			97.43		8307.9
LTM02	GR2121197	18190824	27.6KV_1P_1/0_AL_TRXLPE	Cable	364.5	180.0000			53.6			3.5			1.9			97.42		8672.4
LTM02	GR2121201	18190865	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	89.6	0.0	0.0	5.8	0.0	0.0	1.0	97.74	97.44	96.94	7982.3
LTM02	GR2121202	18190869	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			97.74			7982.4
LTM02	GR2121203	18190887	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000		0.0			0.0			0.0			97.74			7982.4
LTM02	GR2121204	18190870	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000			0.0			0.0			0.0			97.44		7982.4
LTM02	GR2121205	18190888	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000			0.0			0.0			0.0			97.44		7982.4
LTM02	GR2121206	18190871	BUS27.6KV_1P_600A_CU_AIR	Cable	0.1	600.0000				89.6			5.8			1.0			96.94	7982.4
LTM02	GR2121207	18190889	27.6KV_1P_1/0_AL_XLPE	Cable	0.0	180.0000				89.6			5.8			3.2			96.94	7982.4
LTM02	GR2121208	18190879	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000				89.6			5.8			3.2			96.94	7982.4
LTM02	GR2121209	18190784	27.6KV_1P_1/0_AL_TRXLPE	Cable	321.7	180.0000				89.6			5.8			3.2			96.93	8304.1
LTM02	GR2121210	18190783	27.6KV_1P_1/0_AL_TRXLPE	Cable	367.1	180.0000				89.5			5.8			3.2			96.92	8671.2
LTM02	GR2121215	18134649	27.6KV_1P_1/0_AL_TRXLPE	Cable	119.4	180.0000				44.8			2.9			1.6			96.92	8790.6
LTM02	GR2121220	18134629	27.6KV_1P_1/0_AL_TRXLPE	Cable	81.0	180.0000				0.0			0.0			0.0			96.92	8871.6
LTM02	GR2121224	18190868	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.74	97.44	96.94	7982.2
LTM02	GR2121225	18190886	27.6KV_3P_1000_AL_XLPE	Cable	0.0	505.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.74	97.44	96.94	7982.2
LTM02	GR2121236	18100503	27.6KV_3P_1/0_AL_TRXLPE	Cable	80.5	180.0000		88.5	89.5	74.7	5.7	5.8	4.8	3.2	3.2	2.7	97.76	97.42	96.92	7538.4
LTM02	GR2121244	17242278	27.6KV_3P_1/0_AL_TRXLPE	Cable	180.6	180.0000		583.3	536.4	1094.2	37.4	34.6	70.9	20.8	19.2	39.4	97.75	97.39	96.84	7702.6
LTM02	GR2121245	17242241	27.6KV_1P_1/0_AL_TRXLPE	Cable	48.5	180.0000				1093.4			70.9			39.4			96.82	7751.1
LTM02	GR2121250	17242471	27.6KV_1P_1/0_AL_TRXLPE	Cable	53.4	180.0000				1048.4			68.0			37.8			96.80	7804.5
LTM02	GR2121255	17242477	27.6KV_1P_1/0_AL_TRXLPE	Cable	107.8	180.0000				1003.4			65.1			36.1			96.75	7912.4
LTM02	GR2121260	17242492	27.6KV_1P_1/0_AL_TRXLPE	Cable	139.1	180.0000				958.1			62.1			34.5			96.70	8051.4
LTM02	GR2121265	17242525	27.6KV_1P_1/0_AL_TRXLPE	Cable	130.0	180.0000				882.8			57.3			31.8			96.65	8181.4
LTM02	GR2121270	17242608	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.6	180.0000				837.6			54.4			30.2			96.63	8234.0
LTM02	GR2121275	17242695	27.6KV_1P_1/0_AL_TRXLPE	Cable	12.5	180.0000				792.7			51.5			28.6			96.63	8246.5
LTM02	GR2121280	17242701	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.3	180.0000				747.9			48.6			27.0			96.61	8298.8
LTM02	GR2121285	17242568	27.6KV_1P_1/0_AL_TRXLPE	Cable	212.7	180.0000				703.0			45.7			25.4			96.55	8511.5
LTM02	GR2121290	17242733	27.6KV_1P_1/0_AL_TRXLPE	Cable	31.4	180.0000				657.8			42.8			23.8			96.54	8542.9
LTM02	GR2121295	17242591	27.6KV_1P_1/0_AL_TRXLPE	Cable	74.2	180.0000				612.9			39.8			22.1			96.52	8617.1
LTM02	GR2121296	17242593	27.6KV_1P_1/0_AL_TRXLPE	Cable	123.8	180.0000				612.8			39.8			22.1			96.49	8740.9
LTM02	GR2121301	17242602	27.6KV_1P_1/0_AL_TRXLPE	Cable	74.1	180.0000				567.8			36.9			20.5			96.47	8815.1

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2121306	17242788	27.6KV_1P_1/0_AL_TRXLPE	Cable	76.6	180.0000				523.0			34.0			18.9			96.45	8891.7
LTM02	GR2121311	17242863	27.6KV_1P_1/0_AL_TRXLPE	Cable	106.1	180.0000				478.1			31.1			17.3			96.43	8997.8
LTM02	GR2121316	17242872	27.6KV_1P_1/0_AL_TRXLPE	Cable	72.1	180.0000				433.2			28.2			15.7			96.42	9069.9
LTM02	GR2121321	17242909	27.6KV_1P_1/0_AL_TRXLPE	Cable	130.2	180.0000				388.4			25.3			14.0			96.40	9200.1
LTM02	GR2121326	17242955	27.6KV_1P_1/0_AL_TRXLPE	Cable	104.8	180.0000				343.6			22.4			12.4			96.38	9304.8
LTM02	GR2121331	17242982	27.6KV_1P_1/0_AL_TRXLPE	Cable	23.1	180.0000				298.7			19.5			10.8			96.38	9328.0
LTM02	GR2121336	17243177	27.6KV_1P_1/0_AL_TRXLPE	Cable	277.6	180.0000				254.0			16.5			9.2			96.35	9605.5
LTM02	GR2121341	17243184	27.6KV_1P_1/0_AL_TRXLPE	Cable	101.3	180.0000				179.1			11.7			6.5			96.34	9706.8
LTM02	GR2121346	17243201	27.6KV_1P_1/0_AL_TRXLPE	Cable	20.1	180.0000				134.3			8.7			4.9			96.34	9726.9
LTM02	GR2121351	17243221	27.6KV_1P_1/0_AL_TRXLPE	Cable	152.9	180.0000				89.5			5.8			3.2			96.33	9879.8
LTM02	GR2121356	17243253	27.6KV_1P_1/0_AL_TRXLPE	Cable	35.6	180.0000				44.8			2.9			1.6			96.33	9915.4
LTM02	GR2121361	17242772	27.6KV_1P_1/0_AL_TRXLPE	Cable	96.0	180.0000				0.0			0.0			0.0			96.33	10011.4
LTM02	GR2121362	17242822	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000				0.0			0.0			0.0			96.33	10011.4
LTM02	GR2121363	17242242	27.6KV_2P_1/0_AL_TRXLPE	Cable	17.1	180.0000		583.2	536.2		37.4	34.6		20.8	19.2		97.74	97.39		7719.7
LTM02	GR2121364	17242243	27.6KV_1P_1/0_AL_TRXLPE	Cable	45.5	180.0000			536.2			34.6			19.2			97.38		7765.2
LTM02	GR2121369	17242466	27.6KV_1P_1/0_AL_TRXLPE	Cable	65.2	180.0000			482.6			31.1			17.3			97.36		7830.3
LTM02	GR2121374	17242484	27.6KV_1P_1/0_AL_TRXLPE	Cable	140.3	180.0000			428.9			27.6			15.4			97.34		7970.6
LTM02	GR2121379	17977483	27.6KV_1P_1/0_AL_TRXLPE	Cable	154.9	180.0000			375.3			24.2			13.4			97.31		8125.5
LTM02	GR2121384	17242499	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.4	180.0000			321.6			20.7			11.5			97.31		8177.9
LTM02	GR2121389	17242544	27.6KV_1P_1/0_AL_TRXLPE	Cable	247.6	180.0000			268.0			17.3			9.6			97.28		8425.5
LTM02	GR2121394	17242704	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.4	180.0000			214.3			13.8			7.7			97.27		8477.9
LTM02	GR2121399	17242713	27.6KV_1P_1/0_AL_TRXLPE	Cable	12.4	180.0000			160.7			10.4			5.8			97.27		8490.3
LTM02	GR2121404	17242721	27.6KV_1P_1/0_AL_TRXLPE	Cable	42.2	180.0000			107.2			6.9			3.8			97.27		8532.5
LTM02	GR2121409	17977490	27.6KV_1P_1/0_AL_TRXLPE	Cable	216.4	180.0000			53.6			3.5			1.9			97.27		8748.9
LTM02	GR2121414	17242755	27.6KV_1P_1/0_AL_TRXLPE	Cable	69.6	180.0000			0.0			0.0			0.0			97.27		8818.5
LTM02	GR2121415	17242821	27.6KV_1P_1/0_AL_TRXLPE	Cable	0.0	180.0000			0.0			0.0			0.0			97.27		8818.5
LTM02	GR2121416	17242244	27.6KV_1P_1/0_AL_TRXLPE	Cable	2.9	180.0000		583.1			37.4			20.8			97.74			7722.6
LTM02	GR2121421	17242279	27.6KV_1P_1/0_AL_TRXLPE	Cable	45.0	180.0000		530.2			34.0			18.9			97.73			7767.6
LTM02	GR2121426	18063450	27.6KV_1P_1/0_AL_TRXLPE	Cable	58.5	180.0000		477.1			30.6			17.0			97.72			7826.1
LTM02	GR2121431	18060812	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.5	180.0000		437.3			28.1			15.6			97.71			7878.6
LTM02	GR2121436	18060696	27.6KV_1P_1/0_AL_TRXLPE	Cable	12.8	180.0000		397.5			25.5			14.2			97.71			7891.4
LTM02	GR2121441	18060768	27.6KV_1P_1/0_AL_TRXLPE	Cable	52.4	180.0000		357.8			23.0			12.8			97.70			7943.8
LTM02	GR2121446	18060914	27.6KV_1P_1/0_AL_TRXLPE	Cable	99.2	180.0000		318.0			20.4			11.3			97.69			8042.9
LTM02	GR2121451	18060953	27.6KV_1P_1/0_AL_TRXLPE	Cable	47.4	180.0000		278.2			17.9			9.9			97.68			8090.3
LTM02	GR2121456	18060966	27.6KV_1P_1/0_AL_TRXLPE	Cable	64.7	180.0000		238.5			15.3			8.5			97.67			8154.9
LTM02	GR2121461	18060984	27.6KV_1P_1/0_AL_TRXLPE	Cable	12.6	180.0000		198.7			12.8			7.1			97.67			8167.5
LTM02	GR2121466	18061004	27.6KV_1P_1/0_AL_TRXLPE	Cable	64.8	180.0000		159.0			10.2			5.7			97.67			8232.3
LTM02	GR2121471	18061010	27.6KV_1P_1/0_AL_TRXLPE	Cable	71.4	180.0000		119.2			7.7			4.3			97.67			8303.7
LTM02	GR2121476	18061014	27.6KV_1P_1/0_AL_TRXLPE	Cable	78.9	180.0000		79.5			5.1			2.8			97.66			8382.6
LTM02	GR2121481	18061029	27.6KV_1P_1/0_AL_TRXLPE	Cable	49.3	180.0000		39.7			2.6			1.4			97.66			8431.9
LTM02	GR2121502	18191657	27.6KV_3P_1/0_AL_TRXLPE	Cable	119.8	180.0000		447.5	174.2	272.8	28.7	11.2	17.7	16.0	6.2	9.8	97.75	97.45	96.96	7280.7
LTM02	GR2121503	18191658	27.6KV_3P_1/0_AL_TRXLPE	Cable	170.5	180.0000		447.4	174.2	272.8	28.7	11.2	17.7	16.0	6.2	9.8	97.72	97.44	96.95	7451.2
LTM02	GR2121504	18191659	27.6KV_3P_1/0_AL_TRXLPE	Cable	111.9	180.0000		447.3	174.2	272.7	28.7	11.2	17.7	16.0	6.2	9.8	97.71	97.44	96.94	7563.1
LTM02	GR2121505	18182390	27.6KV_1P_1/0_AL_TRXLPE	Cable	85.3	180.0000				272.7			17.7			9.8			96.93	7648.4
LTM02	GR2121510	18154917	27.6KV_1P_1/0_AL_TRXLPE	Cable	76.3	180.0000				239.1			15.5			8.6			96.93	7724.7
LTM02	GR2121515	18154893	27.6KV_1P_1/0_AL_TRXLPE	Cable	26.8	180.0000				164.3			10.6			5.9			96.92	7751.6
LTM02	GR2121520	18153722	27.6KV_1P_1/0_AL_TRXLPE	Cable	128.4	180.0000				119.6			7.7			4.3			96.92	7879.9
LTM02	GR2121521	18153753	27.6KV_1P_1/0_AL_TRXLPE	Cable	162.6	180.0000				119.6			7.7			4.3			96.91	8042.6
LTM02	GR2121522	18153736	27.6KV_1P_1/0_AL_TRXLPE	Cable	88.0	180.0000				119.5			7.7			4.3			96.90	8130.6
LTM02	GR2121523	18153740	27.6KV_1P_1/0_AL_TRXLPE	Cable	104.6	180.0000				119.5			7.7			4.3			96.90	8235.2
LTM02	GR2121528	18191085	27.6KV_1P_1/0_AL_TRXLPE	Cable	93.2	180.0000				74.8			4.8			2.7			96.90	8328.4
LTM02	GR2121533	18191067	27.6KV_1P_1/0_AL_TRXLPE	Cable	258.0	180.0000				0.0			0.0			0.0			96.90	8586.4
LTM02	GR2121535	18191665	27.6KV_2P_1/0_AL_TRXLPE	Cable	164.0	180.0000		447.2	174.2		28.7	11.2		16.0	6.2		97.68	97.44		7727.2
LTM02	GR2121536	18191666	27.6KV_2P_1/0_AL_TRXLPE	Cable	88.0	180.0000		447.1	174.2		28.7	11.2		16.0	6.2		97.66	97.43		7815.2
LTM02	GR2121537	18191667	27.6KV_2P_1/0_AL_TRXLPE	Cable	87.7	180.0000		447.0	174.2		28.7	11.2		16.0	6.2		97.65	97.43		7902.8
LTM02	GR2121538	18191815	27.6KV_1P_1/0_AL_TRXLPE	Cable	149.2	180.0000			174.2			11.2			6.2			97.42		8052.0
LTM02	GR2121539	18191826	27.6KV_1P_1/0_AL_TRXLPE	Cable	342.8	180.0000			174.2			11.2			6.2			97.39		8394.8
LTM02	GR2121540	18191802	27.6KV_1P_1/0_AL_TRXLPE	Cable	125.2	180.0000			174.1			11.2			6.2			97.38		8520.0
LTM02	GR2121545	18134762	27.6KV_1P_1/0_AL_TRXLPE	Cable	49.3	180.0000			120.6			7.8			4.3			97.38		8569.2
LTM02	GR2121550	18134766	27.6KV_1P_1/0_AL_TRXLPE	Cable	18.3	180.0000			80.4			5.2			2.9			97.38		8587.5
LTM02	GR2121555	18134784	27.6KV_1P_1/0_AL_TRXLPE	Cable	81.8	180.0000			40.2			2.6			1.4			97.38		8669.4
LTM02	GR2121559	18191816	27.6KV_1P_1/0_AL_TRXLPE	Cable	4.3	180.0000		447.0			28.7			16.0			97.64			7907.1
LTM02	GR2121564	18191198	27.6KV_1P_1/0_AL_TRXLPE	Cable	97.9	180.0000		358.4			23.0			12.8			97.63			8005.0
LTM02	GR2121569	18191614	27.6KV_1P_1/0_AL_TRXLPE	Cable	39.9	180.0000		269.9			17.3			9.6			97.63			8044.9
LTM02	GR2121570	18191618	27.6KV_1P_1/0_AL_TRXLPE	Cable	168.1	180.0000		269.9			17.3			9.6			97.61			8213.0
LTM02	GR2121575	18191568	27.6KV_1P_1/0_AL_TRXLPE	Cable	227.7	180.0000		181.3			11.7			6.5			97.59			8440.7
LTM02	GR2121580	18191207	27.6KV_1P_1/0_AL_TRXLPE	Cable	90.1	180.0000		141.5			9.1			5.1			97.58			8530.8
LTM02	GR2121585	18191453	27.6KV_1P_1/0_AL_TRXLPE	Cable	177.9	180.0000		53.0			3.4			1.9			97.58			8708.7
LTM02	GR2121590	18190597	27.6KV_1P_1/0_AL_TRXLPE	Cable	80.1	180.0000				153.3			9.9			5.5			96.98	7200.9
LTM02	GR2121591	18190589	27.6KV_1P_1/0_AL_TRXLPE	Cable	172.2	180.0000				153.2			9.9			5.5			96.97	7373.1
LTM02	GR2121592	18190588	27.6KV_1P_1/0_AL_TRXLPE	Cable	110.3	180.0000				153.2			9.9			5.5			96.96	7483.4
LTM02	GR2121593	18190587	27.6KV_1P_1/0_AL_TRXLPE	Cable	163.9	180.0000				153.2			9.9			5.5			96.95	7647.3
LTM02	GR2121594	18190586	27.6KV_1P_1/0_AL_TRXLPE	Cable	88.0	180.0000				153.2			9.9			5.5			96.94	7735.3
LTM02	GR2121595	18190585	27.6KV_1P_1/0_AL_TRXLPE	Cable	237.1	180.0000				153.2			9.9			5.5			96.93	7972.5
LTM02	GR2121596	18190584	27.6KV_1P_1/0_AL_TRXLPE	Cable	338.6	180.0000				153.2			9.9			5.5			96.91	8311.1
LTM02	GR2121597	18135115	27.6KV_1P_1/0_AL_TRXLPE	Cable	152.4	180.0000				153.1			9.9			5.5			96.90	8463.5

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2121602	18134598	27.6KV_1P_1/0_AL_TRXLPE	Cable	121.1	180.0000				108.4			7.0			3.9			96.89	8584.6
LTM02	GR2121607	18134606	27.6KV_1P_1/0_AL_TRXLPE	Cable	116.3	180.0000				74.8			4.8			2.7			96.89	8700.9
LTM02	GR2121627	18203528	27.6KV_3P_1/0_AL_XLPE	Cable	27.5	180.0000		132.6	134.1	112.0	8.5	8.6	7.2	4.7	4.8	4.0	97.84	97.58	97.22	6503.7
LTM02	GR2121628	18203530	27.6KV_3P_1/0_AL_XLPE	Cable	120.4	180.0000		132.6	134.1	112.0	8.5	8.6	7.2	4.7	4.8	4.0	97.83	97.57	97.21	6624.1
LTM02	GR2121670	4044616	27.6KV_3P_1/0_AL_XLPE	Cable	46.3	180.0000		177.0	179.0	149.5	11.3	11.5	9.6	6.3	6.4	5.3	98.19	98.06	97.92	4811.1
LTM02	GR2121671	13069564	27.6KV_3P_1/0_AL_XLPE	Cable	0.0	180.0000		177.0	179.0	149.5	11.3	11.5	9.6	6.3	6.4	5.3	98.19	98.06	97.92	4811.1
LTM02	GR2121672	13069508	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		177.0	179.0	149.5	11.3	11.5	9.6	1.9	1.9	1.6	98.19	98.06	97.92	4811.2
LTM02	GR2121673	13069503	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		177.0	179.0	149.5	11.3	11.5	9.6	1.9	1.9	1.6	98.19	98.06	97.92	4811.3
LTM02	GR2121674	13069505	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.19	98.06	97.92	4811.4
LTM02	GR2121675	13069506	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		177.0	179.0	149.5	11.3	11.5	9.6	1.9	1.9	1.6	98.19	98.06	97.92	4811.4
LTM02	GR2121676	13069512	BUS27.6KV_3P_600A_CU_AIR	Cable	0.1	600.0000		177.0	179.0	149.5	11.3	11.5	9.6	1.9	1.9	1.6	98.19	98.06	97.92	4811.5
LTM02	GR2121677	13069665	27.6KV_3P_1/0_AL_XLPE	Cable	0.0	180.0000		177.0	179.0	149.5	11.3	11.5	9.6	6.3	6.4	5.3	98.19	98.06	97.92	4811.5
LTM02	GR2121747	11359379	27.6KV_3P_1/0_ACSR_XLPE	Cable	53.1	180.0000		265.7	268.7	224.3	16.9	17.1	14.3	9.4	9.5	7.9	98.49	98.51	98.54	3682.4
LTM02	GR2122018	13082249	DEFAULT	Cable	0.0	100.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	13314.8
LTM02	GR2122019	13082252	BUS27.6KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	13314.9
LTM02	GR2122020	13082498	BUS27.6KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	13315.0
LTM02	GR2122021	13082274	BUS27.6KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	13315.1
LTM02	GR2122022	13082503	BUS27.6KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	13315.2
LTM02	GR2122023	13082257	BUS27.6KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	13315.3
LTM02	GR2122115	18097320	27.6KV_3P_1/0_AL_XLPE	Cable	38.5	180.0000		88.5	89.5	74.7	5.7	5.7	4.8	3.1	3.2	2.6	97.98	98.20	98.64	15042.0
LTM02	GR2120441	4031463	27.6KV_3P_Y556_AL	Overhead Line	8.2	730.0000		5477.3	5477.6	5479.5	343.8	343.8	344.0	47.1	47.1	47.1	99.97	99.97	99.97	58.7
LTM02	GR2120442	4031462	27.6KV_3P_Y556_AL	Overhead Line	13.7	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.97	99.97	99.97	72.4
LTM02	GR2120443	14731648	27.6KV_3P_Y556_AL	Overhead Line	8.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.97	99.97	99.97	80.4
LTM02	GR2120444	14731650	27.6KV_3P_Y556_AL	Overhead Line	4.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.97	99.97	99.97	76.4
LTM02	GR2120445	4045175	27.6KV_3P_Y556_AL	Overhead Line	38.5	730.0000		5477.1	5477.4	5479.3	343.8	343.8	344.0	47.1	47.1	47.1	99.95	99.95	99.95	97.2
LTM02	GR2120446	4045563	27.6KV_3P_Y556_AL	Overhead Line	51.5	730.0000		5476.1	5476.4	5478.4	343.8	343.8	344.0	47.1	47.1	47.1	99.93	99.93	99.93	148.7
LTM02	GR2120447	17993875	27.6KV_3P_N556_AL	Overhead Line	1.8	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.93	99.93	99.93	150.5
LTM02	GR2120448	17993870	27.6KV_3P_Y556_AL	Overhead Line	1.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.93	99.93	99.93	151.8
LTM02	GR2120449	17993876	27.6KV_3P_Y556_AL	Overhead Line	49.6	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.93	99.93	99.93	200.0
LTM02	GR2120450	17993893	27.6KV_3P_N556_AL	Overhead Line	10.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.93	99.93	99.93	210.0
LTM02	GR2120451	17993894	27.6KV_3P_Y556_AL	Overhead Line	5.0	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.93	99.93	99.93	205.0
LTM02	GR2120452	4046962	27.6KV_3P_Y556_AL	Overhead Line	49.6	730.0000		5474.8	5475.1	5477.0	343.8	343.8	344.0	47.1	47.1	47.1	99.91	99.91	99.91	198.3
LTM02	GR2120453	18108737	27.6KV_3P_Y556_AL	Overhead Line	51.2	730.0000		5473.5	5473.8	5475.8	343.8	343.8	344.0	47.1	47.1	47.1	99.88	99.88	99.88	249.5
LTM02	GR2120454	4046963	27.6KV_3P_Y556_AL	Overhead Line	44.2	730.0000		5472.2	5467.1	5474.4	343.8	343.5	344.0	47.1	47.1	47.1	99.86	99.86	99.86	293.6
LTM02	GR2120455	4046964	27.6KV_3P_Y556_AL	Overhead Line	68.1	730.0000		5471.0	5466.0	5473.3	343.8	343.5	344.0	47.1	47.1	47.1	99.83	99.83	99.83	361.8
LTM02	GR2120456	4046967	27.6KV_3P_Y556_AL	Overhead Line	67.6	730.0000		5469.3	5464.2	5471.5	343.8	343.5	344.0	47.1	47.1	47.1	99.80	99.80	99.80	429.4
LTM02	GR2120457	4046968	27.6KV_3P_Y556_AL	Overhead Line	68.1	730.0000		5467.5	5462.5	5469.8	343.8	343.5	344.0	47.1	47.1	47.1	99.76	99.76	99.76	497.5
LTM02	GR2120458	4046969	27.6KV_3P_Y556_AL	Overhead Line	66.5	730.0000		5465.8	5460.7	5468.0	343.8	343.5	344.0	47.1	47.1	47.1	99.73	99.73	99.73	564.0
LTM02	GR2120459	4046970	27.6KV_3P_Y556_AL	Overhead Line	66.8	730.0000		5464.1	5459.0	5466.3	343.8	343.5	344.0	47.1	47.1	47.1	99.70	99.70	99.70	630.7
LTM02	GR2120460	4046971	27.6KV_3P_Y556_AL	Overhead Line	66.6	730.0000		5462.4	5457.3	5464.6	343.8	343.5	344.0	47.1	47.1	47.1	99.67	99.67	99.67	697.3
LTM02	GR2120461	4046972	27.6KV_3P_Y556_AL	Overhead Line	66.3	730.0000		5460.6	5455.6	5462.9	343.8	343.5	344.0	47.1	47.1	47.1	99.64	99.64	99.64	763.5
LTM02	GR2120462	4046973	27.6KV_3P_Y556_AL	Overhead Line	75.4	730.0000		5458.9	5453.9	5461.2	343.8	343.5	344.0	47.1	47.1	47.1	99.60	99.60	99.60	838.9
LTM02	GR2120463	16489329	27.6KV_3P_Y556_AL	Overhead Line	60.1	730.0000		5457.0	5451.9	5459.2	343.8	343.5	344.0	47.1	47.1	47.1	99.57	99.57	99.57	899.0
LTM02	GR2120464	4045089	27.6KV_3P_Y556_AL	Overhead Line	3.8	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.57	99.57	99.57	902.9
LTM02	GR2120465	4046192	27.6KV_3P_Y556_AL	Overhead Line	57.5	730.0000		5455.5	5450.4	5457.7	343.8	343.5	344.0	47.1	47.1	47.1	99.55	99.55	99.54	956.5
LTM02	GR2120466	4046974	27.6KV_3P_Y556_AL	Overhead Line	29.5	730.0000		5454.0	5448.9	5456.2	343.8	343.5	344.0	47.1	47.1	47.1	99.53	99.53	99.53	985.9
LTM02	GR2120467	11607622	27.6KV_3P_N556_AL	Overhead Line	13.7	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.53	99.53	99.53	999.6
LTM02	GR2120468	13065090	27.6KV_3P_Y556_AL	Overhead Line	4.1	730.0000		5453.2	5448.2	5455.5	343.8	343.5	344.0	47.1	47.1	47.1	99.53	99.53	99.53	990.1
LTM02	GR2120469	11607677	27.6KV_3P_N556_AL	Overhead Line	6.6	730.0000		5453.1	5448.1	5455.4	343.8	343.5	344.0	47.1	47.1	47.1	99.53	99.53	99.53	996.7
LTM02	GR2120470	11607678	27.6KV_3P_N556_AL	Overhead Line	8.0	730.0000		5453.0	5447.9	5455.2	343.8	343.5	344.0	47.1	47.1	47.1	99.52	99.52	99.52	1004.7
LTM02	GR2120471	13065092	27.6KV_3P_Y556_AL	Overhead Line	3.0	730.0000		5452.8	5447.7	5455.0	343.8	343.5	344.0	47.1	47.1	47.1	99.52	99.52	99.52	1007.7
LTM02	GR2120472	11607653	27.6KV_3P_N556_AL	Overhead Line	13.9	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.52	99.52	99.52	1021.5
LTM02	GR2120473	13065093	27.6KV_3P_Y556_AL	Overhead Line	43.4	730.0000		5452.7	5447.6	5454.9	343.8	343.5	344.0	47.1	47.1	47.1	99.50	99.50	99.50	1051.1
LTM02	GR2120474	4044922	27.6KV_3P_Y556_AL	Overhead Line	62.5	730.0000		5451.6	5446.5	5453.8	343.8	343.5	344.0	47.1	47.1	47.1	99.47	99.47	99.47	1113.5
LTM02	GR2120475	4043884	27.6KV_3P_Y556_AL	Overhead Line	68.4	730.0000		5450.0	5444.9	5452.2	343.8	343.5	344.0	47.1	47.1	47.1	99.44	99.44	99.44	1181.9
LTM02	GR2120476	4043886	27.6KV_3P_Y556_AL	Overhead Line	64.0	730.0000		5448.2	5443.2	5450.5	343.8	343.5	344.0	47.1	47.1	47.1	99.41	99.41	99.41	1245.9
LTM02	GR2120477	4043888	27.6KV_3P_Y556_AL	Overhead Line	54.2	730.0000		5446.6	5441.5	5448.8	343.8	343.5	344.0	47.1	47.1	47.1	99.38	99.38	99.38	1300.1
LTM02	GR2120478	4047678	27.6KV_3P_Y556_AL	Overhead Line	53.0	730.0000		5445.2	5440.2	5447.4	343.8	343.5	344.0	47.1	47.1	47.1	99.36	99.36	99.36	1353.2
LTM02	GR2120479	4043892	27.6KV_3P_Y556_AL	Overhead Line	52.2	730.0000		5443.9	5438.8	5446.1	343.8	343.5	344.0	47.1	47.1	47.1	99.33	99.33	99.33	1405.4
LTM02	GR2120480	4043894	27.6KV_3P_Y556_AL	Overhead Line	52.3	730.0000		5442.5	5437.5	5444.7	343.8	343.5	344.0	47.1	47.1	47.1	99.31	99.31	99.31	1457.7
LTM02	GR2120481	4043895	27.6KV_3P_Y556_AL	Overhead Line	64.7	730.0000		5441.2	5436.1	5443.4	343.8	343.5	344.0	47.1	47.1	47.1	99.28	99.28	99.28	1522.4
LTM02	GR2120482	4044051	27.6KV_3P_Y556_AL	Overhead Line	69.2	730.0000		5439.6	5434.5	5441.8	343.8	343.5	344.0	47.1	47.1	47.1	99.25	99.25	99.24	1591.6
LTM02	GR2120483	4044052	27.6KV_3P_Y556_AL	Overhead Line	66.3	730.0000		5437.8	5432.7	5440.0	343.8	343.5	344.0	47.1	47.1	47.1	99.21	99.21	99.21	1657.8
LTM02	GR2120484	4044053	27.6KV_3P_Y556_AL	Overhead Line	67.9	730.0000		5436.1	5431.1	5438.3	343.8	343.5	344.0	47.1	47.1	47.1	99.18	99.18	99.18	1725.7
LTM02	GR2120485	4044055	27.6KV_3P_Y556_AL	Overhead Line	64.5	730.0000		5434.4	5429.3	5436.6	343.8	343.5	344.0	47.1	47.1	47.1	99.15	99.15	99.15	1790.2
LTM02	GR2120486	4044056	27.6KV_3P_Y556_AL	Overhead Line	62.4	730.0000		5432.7	5427.7	5434.9	343.8	343.5	344.0	47.1	47.1	47.1	99.12	99.12	99.12	1852.6
LTM02	GR2120487	4044057	27.6KV_3P_Y556_AL	Overhead Line	66.1	730.0000		5431.2	5426.1	5433.4	343.9	343.5	344.0	47.1	47.1	47.1	99.09	99.09	99.09	1918.7
LTM02	GR2120488	4044058	27.6KV_3P_Y556_AL	Overhead Line	58.7	730.0000		5429.5	5424.4	5431.7	343.9	343.5	344.0	47.1	47.1	47.1	99.06	99.06	99.06	1977.3
LTM02	GR2120489	4044059	27.6KV_3P_Y556_AL	Overhead Line	53.8	730.0000		5428.0	5414.9	5430.2	343.9	343.0	344.0	47.1	47.0	47.1	99.04	99.04	99.04	2031.1
LTM02	GR2120490	4044060	27.6KV_3P_Y556_AL	Overhead Line	47.3	730.0000		5426.6	5413.6	5428.8	343.9	343.0	344.0	47.1	47.0	47.1	99.02	99.02	99.02	2078.4
LTM02	GR2120491	4044061	27.6KV_3P_Y556_AL	Overhead Line	51.7	730.0000		5425.5	5412.4	5427.6	343.9	343.0	344.0	47.1	47.0	47.1	98.99	98.99	98.99	2130.1
LTM02	GR2120492	4044062	27.6KV_3P_Y556_AL	Overhead Line	62.6	730.0000		5424.1	5411.1	5426.3	343.9	343.0	344.0	47.1	47.0	47.1	98.96	98.96	98.96	2192.7
LTM02	GR2120493	4042454	27.6KV_3P_Y556_AL	Overhead Line	62.7	730.0000		5422.6	5409.5	5424.7	343.9	343.0	344.0	47.1	47.0	47.1	98.94	98.93	98.93	2255.4
LTM02	GR2120494	4042455	27.6KV_3P_Y556_AL	Overhead Line	69.7	730.0000		5421.0	5394.6	5423.1	343.9	342.2	344.0	47.1	46.9	47.1	98.90	98.90	98.90	2325.1
LTM02	GR2120495	4042457	27.6KV_3P_Y556_AL	Overhead Line	65.6	730.0000		5392.7	5366.0	5399.0	342.2	340.5	342.6	46.9	46.6	46.9	98.87	98.87	98.87	2390.7
LTM02	GR2120496	4042458	27.6KV_3P_Y556_AL	Overhead Line	65.6	730.0000		5391.1	5364.4	5397.3	342.2	340.5	342.6	46.9	46.6	46.9	98.84	98.84	98.84	2456.2

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2120497	4042459	27.6KV_3P_Y556_AL	Overhead Line	57.1	730.0000		5389.5	5362.8	5395.7	342.2	340.5	342.6	46.9	46.6	46.9	98.82	98.82	98.81	2513.3
LTM02	GR2120498	4042460	27.6KV_3P_Y556_AL	Overhead Line	71.1	730.0000		5374.8	5361.4	5394.2	341.3	340.5	342.6	46.8	46.6	46.9	98.78	98.78	98.78	2584.3
LTM02	GR2120499	4042461	27.6KV_3P_Y556_AL	Overhead Line	69.1	730.0000		5373.1	5359.6	5392.4	341.3	340.5	342.6	46.8	46.6	46.9	98.75	98.75	98.75	2653.5
LTM02	GR2120500	4042462	27.6KV_3P_Y556_AL	Overhead Line	55.1	730.0000		5371.4	5357.9	5390.7	341.3	340.5	342.6	46.8	46.6	46.9	98.73	98.73	98.72	2708.5
LTM02	GR2120501	4044693	27.6KV_3P_Y556_AL	Overhead Line	61.5	730.0000		5370.0	5356.5	5389.3	341.3	340.5	342.6	46.8	46.6	46.9	98.70	98.70	98.69	2770.0
LTM02	GR2120502	4046842	27.6KV_3P_Y556_AL	Overhead Line	60.2	730.0000		5368.5	5355.0	5387.8	341.3	340.5	342.6	46.8	46.6	46.9	98.67	98.67	98.67	2830.2
LTM02	GR2120503	4042613	27.6KV_3P_Y556_AL	Overhead Line	57.2	730.0000		5367.0	5353.5	5386.3	341.3	340.5	342.6	46.8	46.6	46.9	98.64	98.64	98.64	2887.4
LTM02	GR2120504	14626284	27.6KV_3P_Y556_AL	Overhead Line	2.0	730.0000		5365.6	5352.1	5384.8	341.3	340.5	342.6	46.8	46.6	46.9	98.64	98.64	98.64	2889.4
LTM02	GR2120505	4042612	27.6KV_3P_Y556_AL	Overhead Line	57.8	730.0000		5352.4	5352.1	5384.8	340.5	340.5	342.6	46.6	46.6	46.9	98.62	98.62	98.61	2947.2
LTM02	GR2120506	4042611	27.6KV_3P_Y556_AL	Overhead Line	39.1	730.0000		5351.0	5350.7	5383.4	340.5	340.5	342.6	46.6	46.6	46.9	98.60	98.60	98.59	2986.3
LTM02	GR2120507	4042610	27.6KV_3P_Y556_AL	Overhead Line	26.6	730.0000		5350.0	5349.7	5382.4	340.5	340.5	342.6	46.6	46.6	46.9	98.59	98.59	98.58	3012.9
LTM02	GR2120508	4044762	27.6KV_3P_Y556_AL	Overhead Line	50.3	730.0000		5349.4	5349.0	5381.7	340.5	340.5	342.6	46.6	46.6	46.9	98.56	98.56	98.56	3063.2
LTM02	GR2120509	4027939	JUMPER	Overhead Line	0.0	600.0000		4282.1	4082.7	4623.5	272.6	259.9	294.4	45.4	43.3	49.1	98.56	98.56	98.56	3063.2
LTM02	GR2120510	4043364	27.6KV_3P_Y556_AL	Overhead Line	30.6	730.0000		4282.1	4082.7	4623.5	272.6	259.9	294.4	37.3	35.6	40.3	98.56	98.55	98.54	3093.9
LTM02	GR2120511	4043363	27.6KV_3P_Y556_AL	Overhead Line	20.0	730.0000		4281.7	4082.2	4622.8	272.6	259.9	294.4	37.3	35.6	40.3	98.55	98.54	98.53	3113.8
LTM02	GR2120512	4031236	JUMPER	Overhead Line	0.0	600.0000		264.7	260.7	260.2	16.9	16.6	16.6	2.8	2.8	2.8	98.55	98.54	98.53	3113.8
LTM02	GR2120513	4043175	27.6KV_3P_Y556_AL	Overhead Line	18.2	730.0000		264.7	260.7	260.2	16.9	16.6	16.6	2.3	2.3	2.3	98.55	98.54	98.53	3132.1
LTM02	GR2120514	4043978	27.6KV_3P_Y1/0_AL	Overhead Line	43.7	530.0000		264.8	260.7	260.2	16.9	16.6	16.6	3.2	3.1	3.1	98.55	98.54	98.53	3175.7
LTM02	GR2120515	4043979	27.6KV_3P_Y1/0_AL	Overhead Line	39.0	530.0000		238.3	260.7	260.2	15.2	16.6	16.6	2.9	3.1	3.1	98.55	98.54	98.53	3214.7
LTM02	GR2120516	4047237	27.6KV_3P_Y1/0_AL	Overhead Line	12.7	530.0000		238.3	260.7	260.2	15.2	16.6	16.6	2.9	3.1	3.1	98.55	98.54	98.53	3227.4
LTM02	GR2120517	4028197	JUMPER	Overhead Line	0.0	600.0000		238.3	260.7	260.2	15.2	16.6	16.6	2.5	2.8	2.8	98.55	98.54	98.53	3227.4
LTM02	GR2120518	4043981	27.6KV_3P_Y1/0_AL	Overhead Line	27.3	530.0000		238.3	260.7	260.2	15.2	16.6	16.6	2.9	3.1	3.1	98.54	98.54	98.53	3254.7
LTM02	GR2120523	4047275	27.6KV_3P_Y1/0_AL	Overhead Line	3.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.55	98.54	98.53	3230.4
LTM02	GR2120524	4042579	27.6KV_3P_Y1/0_AL	Overhead Line	3.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.55	98.54	98.53	3230.4
LTM02	GR2120527	4043564	27.6KV_3P_Y556_AL	Overhead Line	3.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.55	98.54	98.53	3117.3
LTM02	GR2120528	4043176	27.6KV_3P_Y556_AL	Overhead Line	5.6	730.0000		4016.7	3821.6	4362.6	255.8	243.4	277.8	35.0	33.3	38.1	98.55	98.54	98.53	3119.4
LTM02	GR2120529	4043362	27.6KV_3P_Y556_AL	Overhead Line	70.0	730.0000		4016.6	3821.5	4362.5	255.8	243.4	277.8	35.0	33.3	38.1	98.53	98.52	98.50	3189.3
LTM02	GR2120530	4043361	27.6KV_3P_Y556_AL	Overhead Line	49.3	730.0000		4002.6	3820.6	4361.2	254.9	243.4	277.8	34.9	33.3	38.1	98.51	98.50	98.48	3238.7
LTM02	GR2120531	4044582	27.6KV_3P_Y556_AL	Overhead Line	5.3	730.0000		4002.1	3819.9	4360.3	254.9	243.4	277.8	34.9	33.3	38.1	98.51	98.50	98.48	3244.0
LTM02	GR2120532	4028170	JUMPER	Overhead Line	0.0	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.51	98.50	98.48	3244.0
LTM02	GR2120533	4044583	27.6KV_3P_Y556_AL	Overhead Line	5.1	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.51	98.50	98.48	3249.1
LTM02	GR2120534	4044584	27.6KV_3P_Y556_AL	Overhead Line	41.4	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.51	98.50	98.48	3285.4
LTM02	GR2120537	4043360	27.6KV_3P_Y556_AL	Overhead Line	52.2	730.0000		4002.0	3819.9	4360.2	254.9	243.4	277.8	34.9	33.3	38.1	98.50	98.48	98.46	3296.1
LTM02	GR2120538	4043359	27.6KV_3P_Y556_AL	Overhead Line	41.7	730.0000		4001.4	3819.2	4359.3	254.9	243.4	277.9	34.9	33.3	38.1	98.48	98.47	98.44	3337.8
LTM02	GR2120539	13126218	27.6KV_3P_Y3/0_ACSR	Overhead Line	3.9	530.0000		185.6	187.7	156.7	11.8	12.0	10.0	2.2	2.3	1.9	98.48	98.47	98.44	3341.7
LTM02	GR2120540	13127672	27.6KV_3P_Y3/0_ACSR	Overhead Line	25.4	530.0000		185.6	187.7	156.7	11.8	12.0	10.0	2.2	2.3	1.9	98.48	98.47	98.44	3367.0
LTM02	GR2120541	13126228	27.6KV_3P_Y3/0_ACSR	Overhead Line	19.2	530.0000		185.6	187.7	156.7	11.8	12.0	10.0	2.2	2.3	1.9	98.48	98.46	98.44	3386.2
LTM02	GR2120542	13126220	27.6KV_3P_Y3/0_ACSR	Overhead Line	14.3	530.0000		185.6	187.7	156.7	11.8	12.0	10.0	2.2	2.3	1.9	98.48	98.46	98.44	3400.6
LTM02	GR2120543	13126200	27.6KV_3P_Y3/0_ACSR	Overhead Line	7.4	530.0000		185.6	187.7	156.7	11.8	12.0	10.0	2.2	2.3	1.9	98.48	98.46	98.44	3407.9
LTM02	GR2120544	13127678	27.6KV_3P_Y3/0_ACSR	Overhead Line	77.4	530.0000		53.0	53.6	44.7	3.4	3.4	2.9	0.6	0.6	0.5	98.48	98.46	98.44	3485.3
LTM02	GR2120545	13127679	27.6KV_3P_Y3/0_ACSR	Overhead Line	77.8	530.0000		53.1	53.6	44.8	3.4	3.4	2.9	0.6	0.6	0.5	98.48	98.46	98.44	3563.0
LTM02	GR2120546	13127681	27.6KV_3P_Y3/0_ACSR	Overhead Line	58.2	530.0000		53.1	53.7	44.8	3.4	3.4	2.9	0.6	0.6	0.5	98.48	98.46	98.44	3621.2
LTM02	GR2120547	13127682	27.6KV_3P_Y3/0_ACSR	Overhead Line	56.5	530.0000		53.1	53.7	44.8	3.4	3.4	2.9	0.6	0.6	0.5	98.48	98.46	98.44	3677.7
LTM02	GR2120548	13127684	27.6KV_3P_Y3/0_ACSR	Overhead Line	57.9	530.0000		53.1	53.7	44.8	3.4	3.4	2.9	0.6	0.6	0.5	98.48	98.46	98.44	3735.6
LTM02	GR2120549	13127686	27.6KV_3P_Y3/0_ACSR	Overhead Line	59.0	530.0000		53.1	53.7	44.8	3.4	3.4	2.9	0.6	0.6	0.5	98.48	98.46	98.44	3794.5
LTM02	GR2120550	13127687	27.6KV_3P_Y3/0_ACSR	Overhead Line	77.0	530.0000		53.1	53.7	44.9	3.4	3.4	2.9	0.6	0.6	0.5	98.48	98.46	98.44	3871.5
LTM02	GR2120551	13126095	27.6KV_3P_Y3/0_ACSR	Overhead Line	18.0	530.0000		53.2	53.8	44.9	3.4	3.4	2.9	0.6	0.6	0.5	98.48	98.46	98.44	3889.5
LTM02	GR2120554	4044573	27.6KV_3P_Y1/0_AL	Overhead Line	43.4	530.0000		132.6	134.1	112.0	8.4	8.5	7.1	1.6	1.6	1.3	98.48	98.46	98.44	3451.3
LTM02	GR2120555	4044574	27.6KV_3P_Y1/0_AL	Overhead Line	40.2	530.0000		132.6	134.1	112.0	8.4	8.5	7.1	1.6	1.6	1.3	98.48	98.46	98.44	3491.4
LTM02	GR2120558	4043174	27.6KV_3P_Y556_AL	Overhead Line	33.2	730.0000		26.5	26.8	22.4	1.7	1.7	1.4	0.2	0.2	0.2	98.48	98.47	98.44	3371.0
LTM02	GR2120561	4043358	27.6KV_3P_Y556_AL	Overhead Line	54.3	730.0000		3788.9	3604.2	4179.5	241.4	229.7	266.4	33.1	31.5	36.5	98.47	98.45	98.42	3392.1
LTM02	GR2120562	18167173	27.6KV_3P_Y556_AL	Overhead Line	10.2	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	98.45	98.42	3402.3
LTM02	GR2120563	18167181	27.6KV_3P_N556_AL	Overhead Line	5.1	730.0000		3788.3	3603.5	4178.6	241.4	229.7	266.4	33.1	31.5	36.5	98.47	98.45	98.42	3397.2
LTM02	GR2120564	18167177	27.6KV_3P_N556_AL	Overhead Line	5.1	730.0000		3788.3	3603.5	4178.5	241.4	229.7	266.4	33.1	31.5	36.5	98.47	98.44	98.42	3402.3
LTM02	GR2120565	18167168	27.6KV_3P_Y556_AL	Overhead Line	10.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.47	98.44	98.42	3412.6
LTM02	GR2120566	18984606	27.6KV_3P_Y556_AL	Overhead Line	4.4	730.0000		3788.2	3603.4	4178.4	241.4	229.7	266.4	33.1	31.5	36.5	98.47	98.44	98.41	3406.7
LTM02	GR2120567	4043357	27.6KV_3P_Y556_AL	Overhead Line	25.5	730.0000		3788.2	3603.4	4178.3	241.4	229.7	266.4	33.1	31.5	36.5	98.46	98.43	98.40	3432.2
LTM02	GR2120568	4043173	27.6KV_3P_Y556_AL	Overhead Line	25.4	730.0000		252.3	302.0	190.6	16.1	19.3	12.2	2.2	2.6	1.7	98.46	98.43	98.40	3457.6
LTM02	GR2120569	4043581	27.6KV_3P_Y556_AL	Overhead Line	26.7	730.0000		252.3	302.0	190.6	16.1	19.3	12.2	2.2	2.6	1.7	98.46	98.43	98.40	3484.3
LTM02	GR2120570	4043583	27.6KV_3P_Y1/0_AL	Overhead Line	33.2	530.0000		252.3	302.0	190.6	16.1	19.3	12.2	3.0	3.6	2.3	98.46	98.43	98.40	3517.5
LTM02	GR2120571	4046262	27.6KV_3P_Y1/0_AL	Overhead Line	33.6	530.0000		252.3	302.0	190.6	16.1	19.3	12.2	3.0	3.6	2.3	98.46	98.43	98.40	3551.0
LTM02	GR2120572	4043584	27.6KV_3P_Y1/0_AL	Overhead Line	30.6	530.0000		252.3	302.0	190.6	16.1	19.3	12.2	3.0	3.6	2.3	98.45	98.43	98.40	3581.6
LTM02	GR2120573	4043585	27.6KV_3P_Y1/0_AL	Overhead Line	30.2	530.0000		252.3	248.4	190.6	16.1	15.8	12.2	3.0	3.0	2.3	98.45	98.43	98.40	3611.8
LTM02	GR2120574	4047231	27.6KV_3P_Y1/0_AL	Overhead Line	36.2	530.0000		212.5	208.1	157.0	13.5	13.3	10.0	2.6	2.5	1.9	98.45	98.43	98.40	3647.9
LTM02	GR2120575	4043586	27.6KV_3P_Y1/0_AL	Overhead Line	35.3	530.0000		212.5	208.1	157.0	13.5	13.3	10.0	2.6	2.5	1.9	98.45	98.43	98.40	3683.2
LTM02	GR2120576	4043587	27.6KV_3P_Y1/0_AL	Overhead Line	23.5	530.0000		212.5	208.1	157.0	13.5	13.3	10.0	2.6	2.5	1.9	98.45	98.43	98.40	3706.7
LTM02	GR2120577	4043588	27.6KV_3P_Y1/0_AL	Overhead Line	33.1	530.0000		212.5	208.1	157.0	13.5	13.3	10.0	2.6	2.5	1.9	98.45	98.43	98.40	3739.7
LTM02	GR2120578	4043589	27.6KV_3P_Y1/0_AL	Overhead Line	38.2	530.0000		186.0	208.2	157.0	11.9	13.3	10.0	2.2	2.5	1.9	98.45	98.43	98.40	3777.9
LTM02	GR2120579	4043590	27.6KV_3P_Y1/0_AL	Overhead Line	37.0	530.0000		186.0	208.2	157.0	11.9	13.3	10.0	2.2	2.5	1.9	98.45	98.42	98.40	3814.9
LTM02	GR2120580	4043336	27.6KV_3P_Y1/0_AL	Overhead Line	32.2	530.0000		186.0	208.2	157.0	11.9	13.3	10.0	2.2	2.5	1.9	98.45	98.42	98.40	3847.1
LTM02	GR2120581	4043337	27.6KV_3P_Y1/0_AL	Overhead Line	43.3	530.0000		146.2	167.9	123.4	9.3	10.7	7.9	1.8	2.0	1.5	98.45	98.42	98.40	3890.4
LTM02	GR2120582	15607922	27.6KV_3P_Y1/0_CU	Overhead Line	4.9	530.0000		53.2	53.8	44.9	3.4	3.4	2.9	0.6	0.6	0.5	98.45	98.42	98.40	3895.2
LTM02	GR2120587	4043338	27.6KV_3P_Y1/0_AL	Overhead Line	41.7	530.0000		93.0	114.1	78.5	5.9	7.3	5.0	1.1	1.4	0.9	98.45	98.42	98.40	3932.0
LTM02	GR2120588	4043339	27.6KV_3P_Y1/0_AL	Overhead Line	50.8	530.0000		39.8	60.4	33.6	2.5	3.8	2.1	0.5	0.7	0.4	98.44	98.42	98.40	3982.8
LTM02	GR2120589	156652748	27.6KV_3P_Y1/0_AL	Overhead Line	26.0	530.0000		0.1	20.1	0.1	0.0	1.3	0.0	0.0	0.2	0.0	98.44	98.42	98.40	4008.8
LTM02	GR2120590	4043170	27.6KV_3P_Y1/0_AL	Overhead Line	36.6	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.44	98.42	98.40	4045.4

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2120595	4046134	27.6KV_3P_Y1/0_AL	Overhead Line	2.5	530.0000		53.2	53.8	44.9	3.4	3.4	2.9	0.6	0.6	0.5	98.45	98.42	98.40	3934.5
LTM02	GR2120608	4043355	27.6KV_3P_Y556_AL	Overhead Line	44.3	730.0000		3535.7	3301.1	3987.3	225.4	210.5	254.3	30.9	28.8	34.8	98.45	98.42	98.39	3476.5
LTM02	GR2120609	4043354	27.6KV_3P_Y556_AL	Overhead Line	72.2	730.0000		3535.3	3300.7	3986.6	225.4	210.5	254.3	30.9	28.8	34.8	98.43	98.40	98.36	3548.6
LTM02	GR2120610	4043353	27.6KV_3P_Y556_AL	Overhead Line	53.6	730.0000		3521.5	3299.9	3985.5	224.5	210.5	254.3	30.8	28.8	34.8	98.42	98.38	98.34	3602.2
LTM02	GR2120611	4043352	27.6KV_3P_Y556_AL	Overhead Line	56.3	730.0000		3521.1	3299.4	3984.7	224.5	210.5	254.3	30.8	28.8	34.8	98.41	98.36	98.31	3658.5
LTM02	GR2120612	4043351	27.6KV_3P_Y556_AL	Overhead Line	22.0	730.0000		3520.7	3298.8	3983.8	224.5	210.5	254.3	30.8	28.8	34.8	98.40	98.36	98.31	3680.5
LTM02	GR2120613	4042964	27.6KV_3P_Y556_AL	Overhead Line	28.5	730.0000		141.5	184.7	160.1	9.0	11.8	10.2	1.2	1.6	1.4	98.40	98.36	98.31	3709.0
LTM02	GR2120614	4042965	27.6KV_3P_Y1/0_AL	Overhead Line	36.6	530.0000		141.5	184.7	160.1	9.0	11.8	10.2	1.7	2.2	1.9	98.40	98.36	98.31	3745.6
LTM02	GR2120615	4042967	27.6KV_3P_Y1/0_AL	Overhead Line	42.4	530.0000		141.5	171.4	160.1	9.0	10.9	10.2	1.7	2.1	1.9	98.40	98.36	98.30	3788.0
LTM02	GR2120616	4042968	27.6KV_3P_Y1/0_AL	Overhead Line	25.9	530.0000		115.0	144.6	137.7	7.3	9.2	8.8	1.4	1.7	1.7	98.40	98.35	98.30	3813.9
LTM02	GR2120617	4042969	27.6KV_3P_Y1/0_AL	Overhead Line	37.1	530.0000		115.0	144.6	137.7	7.3	9.2	8.8	1.4	1.7	1.7	98.40	98.35	98.30	3851.0
LTM02	GR2120618	4042970	27.6KV_3P_Y1/0_AL	Overhead Line	35.0	530.0000		115.0	144.6	137.7	7.3	9.2	8.8	1.4	1.7	1.7	98.40	98.35	98.30	3886.1
LTM02	GR2120619	4042971	27.6KV_3P_Y1/0_AL	Overhead Line	36.5	530.0000		115.0	144.6	137.7	7.3	9.2	8.8	1.4	1.7	1.7	98.40	98.35	98.30	3922.5
LTM02	GR2120620	4042972	27.6KV_3P_Y1/0_AL	Overhead Line	36.6	530.0000		115.0	144.6	115.4	7.3	9.2	7.4	1.4	1.7	1.4	98.40	98.35	98.30	3959.1
LTM02	GR2120621	4042973	27.6KV_3P_Y1/0_AL	Overhead Line	56.4	530.0000		115.0	144.6	115.4	7.3	9.2	7.4	1.4	1.7	1.4	98.40	98.35	98.30	4015.5
LTM02	GR2120622	4042974	27.6KV_3P_Y1/0_AL	Overhead Line	55.3	530.0000		115.0	144.6	115.4	7.3	9.2	7.4	1.4	1.7	1.4	98.40	98.35	98.30	4070.8
LTM02	GR2120623	4042975	27.6KV_3P_Y1/0_AL	Overhead Line	16.2	530.0000		115.0	144.6	115.4	7.3	9.2	7.4	1.4	1.7	1.4	98.40	98.35	98.30	4086.9
LTM02	GR2120624	4042976	27.6KV_3P_Y1/0_AL	Overhead Line	19.7	530.0000		115.1	136.6	115.5	7.3	8.7	7.4	1.4	1.6	1.4	98.40	98.35	98.30	4106.6
LTM02	GR2120625	4043133	27.6KV_3P_Y1/0_AL	Overhead Line	6.8	530.0000		115.1	136.6	115.5	7.3	8.7	7.4	1.4	1.6	1.4	98.40	98.35	98.30	4113.4
LTM02	GR2120626	4031238	JUMPER	Overhead Line	0.0	600.0000		79.7	87.5	85.6	5.1	5.6	5.5	0.8	0.9	0.9	98.40	98.35	98.30	4113.4
LTM02	GR2120627	4042379	27.6KV_3P_Y1/0_AL	Overhead Line	6.4	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.40	98.35	98.30	4119.8
LTM02	GR2120628	4046269	27.6KV_3P_Y1/0_AL	Overhead Line	45.7	530.0000		79.7	87.5	85.6	5.1	5.6	5.5	1.0	1.1	1.0	98.40	98.35	98.30	4159.1
LTM02	GR2120629	13490538	27.6KV_3P_Y1/0_AL	Overhead Line	3.2	530.0000		79.7	87.6	85.6	5.1	5.6	5.5	1.0	1.1	1.0	98.40	98.35	98.30	4162.2
LTM02	GR2120630	4042380	27.6KV_3P_Y1/0_AL	Overhead Line	39.7	530.0000		79.7	87.6	85.6	5.1	5.6	5.5	1.0	1.1	1.0	98.40	98.35	98.30	4202.0
LTM02	GR2120635	4042977	27.6KV_3P_Y1/0_AL	Overhead Line	30.6	530.0000		35.4	49.1	29.9	2.3	3.1	1.9	0.4	0.6	0.4	98.40	98.35	98.30	4144.0
LTM02	GR2120636	4042978	27.6KV_3P_Y1/0_AL	Overhead Line	71.2	530.0000		35.4	49.1	29.9	2.3	3.1	1.9	0.4	0.6	0.4	98.40	98.35	98.30	4215.1
LTM02	GR2120637	4042979	27.6KV_3P_Y1/0_AL	Overhead Line	41.7	530.0000		35.4	35.8	29.9	2.3	2.3	1.9	0.4	0.4	0.4	98.40	98.35	98.30	4256.8
LTM02	GR2120638	4043132	27.6KV_3P_Y1/0_AL	Overhead Line	35.3	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.40	98.35	98.30	4292.1
LTM02	GR2120651	4043350	27.6KV_3P_Y556_AL	Overhead Line	46.6	730.0000		3379.0	3114.0	3823.4	215.5	198.7	244.1	29.5	27.2	33.4	98.39	98.34	98.29	3727.0
LTM02	GR2120652	4043349	27.6KV_3P_Y556_AL	Overhead Line	69.2	730.0000		3378.7	3113.6	3822.7	215.5	198.7	244.1	29.5	27.2	33.4	98.38	98.32	98.26	3796.3
LTM02	GR2120653	4043136	27.6KV_3P_Y556_AL	Overhead Line	51.8	730.0000		132.5	134.0	111.9	8.5	8.6	7.1	1.2	1.2	1.0	98.38	98.32	98.26	3848.0
LTM02	GR2120655	18079419	DEFAULT	Overhead Line	64.8	1000.0000		132.6	134.0	111.9	8.5	8.6	7.1	0.8	0.9	0.7	98.37	98.32	98.26	3912.8
LTM02	GR2120656	18079418	DEFAULT	Overhead Line	119.0	1000.0000		132.6	134.0	111.9	8.5	8.6	7.1	0.8	0.9	0.7	98.37	98.31	98.25	4031.8
LTM02	GR2120657	18079417	27.6KV_3P_N556_ASC	Overhead Line	58.6	730.0000		132.6	134.1	112.0	8.5	8.6	7.2	1.2	1.2	1.0	98.37	98.31	98.25	4090.4
LTM02	GR2120658	18001964	DEFAULT	Overhead Line	50.4	1000.0000		132.6	134.1	112.0	8.5	8.6	7.2	0.8	0.9	0.7	98.36	98.31	98.25	4140.8
LTM02	GR2120663	4043348	27.6KV_3P_Y556_AL	Overhead Line	54.8	730.0000		3245.7	2979.0	3709.8	207.0	190.1	236.9	28.4	26.0	32.5	98.37	98.31	98.24	3851.0
LTM02	GR2120664	4043347	27.6KV_3P_Y556_AL	Overhead Line	54.0	730.0000		3245.3	2978.5	3709.0	207.0	190.1	236.9	28.4	26.0	32.5	98.36	98.29	98.22	3905.0
LTM02	GR2120665	4043579	27.6KV_3P_Y1/0_AL	Overhead Line	5.1	530.0000		26.5	26.8	22.4	1.7	1.7	1.4	0.3	0.3	0.3	98.36	98.29	98.22	3910.1
LTM02	GR2120666	13968795	27.6KV_3P_Y1/0_AL	Overhead Line	20.5	530.0000		26.5	26.8	22.4	1.7	1.7	1.4	0.3	0.3	0.3	98.36	98.29	98.22	3930.7
LTM02	GR2120667	4043580	27.6KV_3P_Y1/0_AL	Overhead Line	48.5	530.0000		26.5	26.8	22.4	1.7	1.7	1.4	0.3	0.3	0.3	98.36	98.29	98.22	3979.2
LTM02	GR2120668	13968745	27.6KV_3P_Y1/0_AL	Overhead Line	36.9	530.0000		26.5	26.8	22.4	1.7	1.7	1.4	0.3	0.3	0.3	98.36	98.29	98.22	4016.1
LTM02	GR2120672	4045493	27.6KV_3P_Y556_AL	Overhead Line	64.8	730.0000		3218.5	2951.3	3685.9	205.4	188.4	235.5	28.1	25.8	32.3	98.34	98.28	98.20	3969.8
LTM02	GR2120673	14627169	27.6KV_3P_Y556_AL	Overhead Line	17.1	730.0000		3218.1	2950.8	3685.0	205.4	188.4	235.5	28.1	25.8	32.3	98.34	98.27	98.19	3986.9
LTM02	GR2120674	4043346	27.6KV_3P_Y556_AL	Overhead Line	53.6	730.0000		3218.0	2950.7	3684.8	205.4	188.4	235.5	28.1	25.8	32.3	98.33	98.26	98.17	4040.5
LTM02	GR2120675	4043345	27.6KV_3P_Y556_AL	Overhead Line	50.7	730.0000		3177.8	2909.9	3650.4	202.8	185.9	233.4	27.8	25.5	32.0	98.32	98.24	98.15	4091.2
LTM02	GR2120676	4043343	27.6KV_3P_Y556_AL	Overhead Line	77.0	730.0000		3164.3	2896.1	3638.5	202.0	185.0	232.6	27.7	25.3	31.9	98.31	98.22	98.12	4168.2
LTM02	GR2120677	4043344	27.6KV_3P_Y556_AL	Overhead Line	75.6	730.0000		3163.8	2895.5	3615.1	202.0	185.0	231.2	27.7	25.3	31.7	98.29	98.20	98.10	4243.8
LTM02	GR2120678	4032387	27.6KV_3P_Y556_AL	Overhead Line	79.0	730.0000		3163.4	2894.9	3614.1	202.0	185.0	231.2	27.7	25.3	31.7	98.28	98.18	98.07	4322.8
LTM02	GR2120679	4033869	27.6KV_3P_Y556_AL	Overhead Line	2.8	730.0000		3162.9	2894.3	3613.1	202.0	185.0	231.2	27.7	25.3	31.7	98.27	98.18	98.07	4325.6
LTM02	GR2120680	4027964	JUMPER	Overhead Line	0.0	600.0000		26.5	26.8	22.4	1.7	1.7	1.4	0.3	0.3	0.2	98.27	98.18	98.07	4325.6
LTM02	GR2120681	4033870	27.6KV_3P_Y556_AL	Overhead Line	1.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.27	98.18	98.07	4327.1
LTM02	GR2120682	4033871	27.6KV_3P_Y556_AL	Overhead Line	12.2	730.0000		26.5	26.8	22.4	1.7	1.7	1.4	0.2	0.2	0.2	98.27	98.18	98.07	4337.8
LTM02	GR2120683	4033872	27.6KV_3P_Y556_AL	Overhead Line	34.2	730.0000		26.5	26.8	22.4	1.7	1.7	1.4	0.2	0.2	0.2	98.27	98.18	98.07	4372.0
LTM02	GR2120686	4045465	27.6KV_3P_Y556_AL	Overhead Line	72.5	730.0000		3136.4	2867.5	3590.7	200.3	183.3	229.8	27.4	25.1	31.5	98.26	98.16	98.04	4398.1
LTM02	GR2120687	4032386	27.6KV_3P_Y556_AL	Overhead Line	76.4	730.0000		3135.9	2866.9	3589.7	200.3	183.3	229.8	27.4	25.1	31.5	98.25	98.14	98.01	4474.4
LTM02	GR2120688	4032385	27.6KV_3P_Y556_AL	Overhead Line	75.4	730.0000		3135.5	2866.4	3588.7	200.3	183.3	229.8	27.4	25.1	31.5	98.23	98.12	97.98	4549.8
LTM02	GR2120689	4032379	27.6KV_3P_Y556_AL	Overhead Line	77.7	730.0000		3135.1	2865.8	3587.8	200.3	183.3	229.8	27.4	25.1	31.5	98.22	98.10	97.96	4627.5
LTM02	GR2120690	4032378	27.6KV_3P_Y556_AL	Overhead Line	43.2	730.0000		3134.6	2865.2	3575.6	200.3	183.3	229.1	27.4	25.1	31.4	98.21	98.08	97.94	4670.7
LTM02	GR2120691	4032377	27.6KV_3P_Y556_AL	Overhead Line	32.6	730.0000		3134.4	2864.9	3575.0	200.3	183.3	229.1	27.4	25.1	31.4	98.20	98.08	97.93	4703.3
LTM02	GR2120692	4032376	27.6KV_3P_Y556_AL	Overhead Line	27.6	730.0000		3134.2	2864.6	3574.6	200.3	183.3	229.1	27.4	25.1	31.4	98.20	98.07	97.92	4730.9
LTM02	GR2120693	4032375	27.6KV_3P_Y556_AL	Overhead Line	49.4	730.0000		2957.0	2685.4	3424.8	189.0	171.8	219.5	25.9	23.5	30.1	98.19	98.06	97.90	4780.3
LTM02	GR2120694	4032374	27.6KV_3P_Y556_AL	Overhead Line	76.0	730.0000		2951.4	2685.1	3424.2	188.6	171.8	219.5	25.8	23.5	30.1	98.18	98.04	97.87	4856.3
LTM02	GR2120695	4032373	27.6KV_3P_Y556_AL	Overhead Line	54.7	730.0000		2951.1	2684.6	3400.9	188.6	171.8	218.1	25.8	23.5	29.9	98.17	98.02	97.86	4910.9
LTM02	GR2120696	11640555	27.6KV_3P_N3/0_ACSR	Overhead Line	11.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.17	98.02	97.86	4922.9
LTM02	GR2120697	12981536	27.6KV_3P_Y556_AL	Overhead Line	5.8	730.0000		2950.8	2684.2	3400.3	188.6	171.8	218.1	25.8	23.5	29.9	98.17	98.02	97.85	4916.8
LTM02	GR2120698	12981537	27.6KV_3P_Y556_AL	Overhead Line	5.9	730.0000		2950.8	2684.2	3400.2	188.6	171.8	218.1	25.8	23.5	29.9	98.16	98.02	97.85	4922.7
LTM02	GR2120699	11640566	27.6KV_3P_N3/0_ACSR	Overhead Line	12.2	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.16	98.02	97.85	4934.8
LTM02	GR2120700	4032371	27.6KV_3P_Y556_AL	Overhead Line	44.5	730.0000		2950.8	2684.1	3400.1	188.6	171.8	218.1	25.8	23.5	29.9	98.16	98.01	97.84	4967.1
LTM02	GR2120701	4032370	27.6KV_3P_Y556_AL	Overhead Line	38.5	730.0000		2950.5	2683.8	3399.6	188.6	171.8	218.1	25.8	23.5	29.9	98.15	98.00	97.82	5005.6
LTM02	GR2120702	4032369	27.6KV_3P_Y556_AL	Overhead Line	30.2	730.0000		2950.4	2683.6	3399.2	188.6	171.9	218.1	25.8	23.5	29.9	98.14	97.99	97.81	5035.7
LTM02	GR2120703	4032368	27.6KV_3P_Y556_AL	Overhead Line	34.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.14	97.99	97.81	5070.2
LTM02	GR2120704	4032388	27.6KV_3P_Y556_AL	Overhead Line	59.1	730.0000		65.9	66.6	55.6	4.2	4.3	3.6	0.6	0.6	0.5	98.14	97.99	97.81	5094.8
LTM02	GR2120705	4032389	27.6KV_3P_Y556_AL	Overhead Line	54.4	730.0000		52.6	53.2	44.4	3.4	3.4	2.8	0.5	0.5	0.4	98.14	97.99	97.81	5149.2
LTM02	GR2120706	4032390	27.6KV_3P_Y556_AL	Overhead Line	63.1	730.0000		52.7	53.2	44.4	3.4	3.4	2.8	0.5	0.5	0.4	98.14	97.99	97.81	5212.3
LTM02	GR2120707	4032391	27.6KV_3P_Y556_AL	Overhead Line	62.4	730.0000		52.7	53.3	44.4	3.4	3.4	2.8	0.5	0.5	0.4	98.14	97.99	97.81	5274.7
LTM02	GR2120708	4045112	27.6KV_3P_Y556_AL	Overhead Line	62.0	730.0000		52.7	53.3	44.4	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	5336.6

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2120709	4047967	27.6KV_3P_Y556_AL	Overhead Line	59.9	730.0000		52.7	53.3	44.4	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	5396.5
LTM02	GR2120710	4047964	27.6KV_3P_Y556_AL	Overhead Line	59.8	730.0000		52.7	53.3	44.5	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	5456.3
LTM02	GR2120711	4047566	27.6KV_3P_Y556_AL	Overhead Line	67.1	730.0000		52.7	53.3	44.5	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	5523.4
LTM02	GR2120712	4047565	27.6KV_3P_Y556_AL	Overhead Line	38.1	730.0000		52.8	53.3	44.5	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	5561.5
LTM02	GR2120713	4047564	27.6KV_3P_Y556_AL	Overhead Line	39.4	730.0000		52.8	53.4	44.5	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	5600.9
LTM02	GR2120714	4045067	27.6KV_3P_Y556_AL	Overhead Line	61.6	730.0000		52.8	53.4	44.5	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	5662.5
LTM02	GR2120715	4047563	27.6KV_3P_Y556_AL	Overhead Line	59.6	730.0000		52.8	53.4	44.5	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	5722.1
LTM02	GR2120716	4047562	27.6KV_3P_Y556_AL	Overhead Line	62.8	730.0000		52.8	53.4	44.5	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	5784.9
LTM02	GR2120717	4047559	27.6KV_3P_Y556_AL	Overhead Line	56.2	730.0000		52.8	53.4	44.6	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	5841.1
LTM02	GR2120718	4047561	27.6KV_3P_Y556_AL	Overhead Line	69.2	730.0000		52.8	53.4	44.6	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	5910.3
LTM02	GR2120719	4047558	27.6KV_3P_Y556_AL	Overhead Line	64.5	730.0000		52.9	53.5	44.6	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	5974.8
LTM02	GR2120720	4047557	27.6KV_3P_Y556_AL	Overhead Line	47.6	730.0000		52.9	53.5	44.6	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	6022.4
LTM02	GR2120721	4047556	27.6KV_3P_Y556_AL	Overhead Line	49.0	730.0000		52.9	53.5	44.6	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	6071.5
LTM02	GR2120722	4047555	27.6KV_3P_Y556_AL	Overhead Line	60.1	730.0000		52.9	53.5	44.6	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	6131.6
LTM02	GR2120723	4047554	27.6KV_3P_Y556_AL	Overhead Line	62.9	730.0000		52.9	53.5	44.7	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	6194.4
LTM02	GR2120724	4047553	27.6KV_3P_Y556_AL	Overhead Line	58.2	730.0000		52.9	53.5	44.7	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	6252.6
LTM02	GR2120725	4047552	27.6KV_3P_Y556_AL	Overhead Line	60.9	730.0000		53.0	53.6	44.7	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	6313.5
LTM02	GR2120726	4047551	27.6KV_3P_Y556_AL	Overhead Line	59.0	730.0000		53.0	53.6	44.7	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.99	97.81	6372.5
LTM02	GR2120727	4047550	27.6KV_3P_Y556_AL	Overhead Line	61.7	730.0000		53.0	53.6	44.7	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.98	97.81	6434.3
LTM02	GR2120728	4047549	27.6KV_3P_Y556_AL	Overhead Line	61.4	730.0000		53.0	53.6	44.7	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.98	97.81	6495.6
LTM02	GR2120729	4047547	27.6KV_3P_Y556_AL	Overhead Line	59.8	730.0000		53.0	53.6	44.8	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.98	97.81	6555.4
LTM02	GR2120730	4047546	27.6KV_3P_Y556_AL	Overhead Line	61.4	730.0000		53.1	53.6	44.8	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.98	97.81	6616.7
LTM02	GR2120731	19011172	27.6KV_3P_Y556_AL	Overhead Line	59.2	730.0000		53.1	53.7	44.8	3.4	3.4	2.9	0.5	0.5	0.4	98.14	97.98	97.81	6675.9
LTM02	GR2120732	18988944	27.6KV_3P_N1/0_AL	Overhead Line	2.7	530.0000		53.2	53.8	44.9	3.4	3.4	2.9	0.6	0.6	0.5	98.14	97.98	97.81	6678.7
LTM02	GR2120737	4047544	27.6KV_3P_Y556_AL	Overhead Line	58.3	730.0000		0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	98.14	97.98	97.81	6734.3
LTM02	GR2120738	4045066	27.6KV_3P_Y556_AL	Overhead Line	53.6	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	98.14	97.98	97.81	6787.9
LTM02	GR2120739	11347342	27.6KV_3P_Y556_AL	Overhead Line	32.4	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	98.14	97.98	97.81	6820.3
LTM02	GR2120740	4047543	27.6KV_3P_Y556_AL	Overhead Line	15.9	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.14	97.98	97.81	6836.2
LTM02	GR2120741	4047542	27.6KV_3P_Y556_AL	Overhead Line	54.0	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.14	97.98	97.81	6890.2
LTM02	GR2120742	4047541	27.6KV_3P_Y556_AL	Overhead Line	56.7	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.14	97.98	97.81	6947.0
LTM02	GR2120743	18167232	27.6KV_3P_N556_AL	Overhead Line	10.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.14	97.98	97.81	6957.4
LTM02	GR2120744	18984643	27.6KV_3P_N556_AL	Overhead Line	5.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.14	97.98	97.81	6952.2
LTM02	GR2120747	4046727	27.6KV_3P_Y556_AL	Overhead Line	32.3	730.0000		2884.4	2616.8	3343.3	184.4	167.6	214.5	25.3	23.0	29.4	98.14	97.98	97.80	5068.0
LTM02	GR2120748	4032366	27.6KV_3P_Y1/0_AL	Overhead Line	38.2	530.0000		2884.2	2616.6	3343.0	184.4	167.6	214.5	34.8	31.6	40.5	98.13	97.97	97.79	5106.2
LTM02	GR2120749	4032365	27.6KV_3P_Y1/0_AL	Overhead Line	49.6	530.0000		2884.0	2616.3	3342.4	184.4	167.6	214.5	34.8	31.6	40.5	98.12	97.95	97.76	5155.8
LTM02	GR2120750	4032364	27.6KV_3P_Y1/0_AL	Overhead Line	32.3	530.0000		2883.6	2615.9	3308.1	184.4	167.6	212.4	34.8	31.6	40.1	98.11	97.94	97.75	5188.1
LTM02	GR2120751	4032363	27.6KV_3P_Y1/0_AL	Overhead Line	34.0	530.0000		2883.4	2615.6	3307.7	184.4	167.6	212.4	34.8	31.6	40.1	98.10	97.93	97.74	5222.1
LTM02	GR2120752	4032362	27.6KV_3P_Y1/0_AL	Overhead Line	60.4	530.0000		2883.2	2615.4	3307.2	184.4	167.6	212.4	34.8	31.6	40.1	98.09	97.91	97.71	5282.5
LTM02	GR2120753	4045312	27.6KV_3P_Y1/0_AL	Overhead Line	63.1	530.0000		2882.7	2594.8	3306.3	184.4	166.3	212.4	34.8	31.4	40.1	98.07	97.90	97.68	5345.6
LTM02	GR2120754	4032345	27.6KV_3P_Y1/0_AL	Overhead Line	63.9	530.0000		2882.3	2594.3	3305.4	184.4	166.3	212.4	34.8	31.4	40.1	98.06	97.88	97.65	5409.4
LTM02	GR2120755	11647218	27.6KV_3P_Y1/0_AL	Overhead Line	51.9	530.0000		2881.9	2588.4	3304.5	184.4	166.0	212.4	34.8	31.3	40.1	98.04	97.86	97.63	5461.3
LTM02	GR2120756	11647216	DEFAULT	Overhead Line	33.1	1000.0000		235.7	238.3	199.0	15.1	15.3	12.8	1.5	1.5	1.3	98.04	97.86	97.63	5494.4
LTM02	GR2120757	11647224	DEFAULT	Overhead Line	6.2	1000.0000		235.7	238.3	199.0	15.1	15.3	12.8	1.5	1.5	1.3	98.04	97.86	97.63	5500.6
LTM02	GR2120758	12938973	DEFAULT	Overhead Line	9.9	1000.0000		235.7	238.3	199.0	15.1	15.3	12.8	1.5	1.5	1.3	98.04	97.85	97.63	5510.4
LTM02	GR2120759	12981946	DEFAULT	Overhead Line	4.6	1000.0000		235.7	238.3	199.0	15.1	15.3	12.8	1.5	1.5	1.3	98.04	97.85	97.63	5515.0
LTM02	GR2120760	12976929	DEFAULT	Overhead Line	3.8	1000.0000		235.7	238.3	199.0	15.1	15.3	12.8	1.5	1.5	1.3	98.04	97.85	97.63	5518.8
LTM02	GR2120761	12981948	DEFAULT	Overhead Line	15.8	1000.0000		235.7	238.3	199.0	15.1	15.3	12.8	1.5	1.5	1.3	98.04	97.85	97.63	5534.6
LTM02	GR2120762	11647231	DEFAULT	Overhead Line	21.0	1000.0000		235.7	238.3	199.0	15.1	15.3	12.8	1.5	1.5	1.3	98.03	97.85	97.63	5555.6
LTM02	GR2120763	12939004	DEFAULT	Overhead Line	30.6	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.03	97.85	97.63	5586.2
LTM02	GR2120766	12981951	DEFAULT	Overhead Line	7.1	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.04	97.85	97.63	5525.9
LTM02	GR2120767	12981949	DEFAULT	Overhead Line	7.3	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.04	97.85	97.63	5517.7
LTM02	GR2120768	4032343	27.6KV_3P_Y1/0_AL	Overhead Line	70.6	530.0000		2645.8	2349.7	3104.7	169.4	150.7	199.6	32.0	28.4	37.7	98.03	97.84	97.60	5531.9
LTM02	GR2120769	4032342	27.6KV_3P_Y1/0_AL	Overhead Line	62.8	530.0000		2645.4	2349.2	3103.8	169.4	150.7	199.6	32.0	28.4	37.7	98.01	97.82	97.58	5594.7
LTM02	GR2120770	4032179	27.6KV_3P_Y1/0_AL	Overhead Line	69.5	530.0000		2645.1	2340.8	3103.0	169.4	150.2	199.6	32.0	28.3	37.7	98.00	97.80	97.55	5664.2
LTM02	GR2120771	4032178	27.6KV_3P_Y1/0_AL	Overhead Line	53.4	530.0000		2644.7	2340.3	3097.7	169.4	150.2	199.3	32.0	28.3	37.6	97.99	97.79	97.53	5717.7
LTM02	GR2120772	4045856	27.6KV_3P_Y1/0_AL	Overhead Line	45.2	530.0000		2644.4	2340.0	3097.0	169.4	150.2	199.3	32.0	28.3	37.6	97.98	97.77	97.51	5762.9
LTM02	GR2120773	4032177	27.6KV_3P_Y1/0_AL	Overhead Line	43.6	530.0000		2644.2	2312.9	3096.4	169.4	148.5	199.3	32.0	28.0	37.6	97.97	97.76	97.49	5806.4
LTM02	GR2120774	4032176	27.6KV_3P_Y1/0_AL	Overhead Line	54.1	530.0000		2630.7	2299.2	3084.7	168.5	147.6	198.6	31.8	27.8	37.5	97.96	97.75	97.47	5860.5
LTM02	GR2120775	4032173	27.6KV_3P_Y1/0_AL	Overhead Line	3.1	530.0000		2630.4	2298.9	3084.0	168.5	147.6	198.6	31.8	27.8	37.5	97.96	97.75	97.47	5863.6
LTM02	GR2120776	4028163	JUMPER	Overhead Line	0.0	600.0000			5.3			0.3			0.1			97.75		5863.6
LTM02	GR2120777	4043482	27.6KV_1P_Y1/0_AL	Overhead Line	37.3	230.0000			5.3			0.3			0.1			97.75		5900.9
LTM02	GR2120778	4044261	27.6KV_1P_Y1/0_AL	Overhead Line	53.0	230.0000			5.3			0.3			0.1			97.75		5953.9
LTM02	GR2120779	4043650	27.6KV_1P_Y1/0_AL	Overhead Line	57.4	230.0000			5.3			0.3			0.1			97.75		6011.3
LTM02	GR2120782	4043483	27.6KV_1P_Y1/0_AL	Overhead Line	2.0	230.0000			0.0			0.0			0.0			97.75		5865.6
LTM02	GR2120783	4032172	27.6KV_3P_Y1/0_AL	Overhead Line	41.0	530.0000		2630.4	2293.6	3083.9	168.5	147.3	198.6	31.8	27.8	37.5	97.95	97.73	97.45	5904.7
LTM02	GR2120784	4032170	27.6KV_3P_Y1/0_AL	Overhead Line	60.3	530.0000		2630.2	2293.3	3083.4	168.5	147.3	198.6	31.8	27.8	37.5	97.94	97.72	97.42	5964.9
LTM02	GR2120785	4032169	27.6KV_3P_Y1/0_AL	Overhead Line	59.8	530.0000		2629.8	2292.9	3078.1	168.5	147.3	198.3	31.8	27.8	37.4	97.92	97.70	97.40	6024.7
LTM02	GR2120786	4032168	27.6KV_3P_Y1/0_AL	Overhead Line	48.7	530.0000		2629.5	2292.6	3077.4	168.5	147.3	198.3	31.8	27.8	37.4	97.91	97.69	97.38	6073.4
LTM02	GR2120787	4046725	27.6KV_3P_Y1/0_AL	Overhead Line	53.2	530.0000		2602.7	2265.4	3054.4	166.8	145.5	196.8	31.5	27.5	37.1	97.90	97.67	97.36	6126.6
LTM02	GR2120788	4032167	27.6KV_3P_Y1/0_AL	Overhead Line	23.6	530.0000		2576.1	2265.1	3053.7	165.1	145.5	196.8	31.2	27.5	37.1	97.90	97.67	97.35	6150.2
LTM02	GR2120789	4032166	27.6KV_3P_Y1/0_AL	Overhead Line	51.5	530.0000		2576.0	2238.2	3053.4	165.1	143.8	196.8	31.2	27.1	37.1	97.89	97.65	97.33	6201.7
LTM02	GR2120790	4031472	27.6KV_3P_Y1/0_AL	Overhead Line	41.6	530.0000		2575.7	2237.9	3052.7	165.1	143.8	196.8	31.2	27.1	37.1	97.88	97.64	97.31	6243.2
LTM02	GR2120791	11432608	27.6KV_3P_N1/0_AL	Overhead Line	3.0	530.0000		53.2	53.8	44.9	3.4	3.5	2.9	0.6	0.7	0.5	97.88	97.64	97.31	6246.2
LTM02	GR2120796	4032165	27.6KV_3P_Y1/0_AL	Overhead Line	58.1	530.0000		2522.3	2183.9	3007.3	161.7	140.4	193.9	30.5	26.5	36.6	97.87	97.63	97.29	6301.3
LTM02	GR2120797	4032164	27.6KV_3P_Y1/0_AL	Overhead Line	56.5	530.0000		2495.6	2183.5	3006.6	160.0	140.4	193.9	30.2	26.5	36.6	97.86	97.61	97.26	6357.8
LTM02	GR2120798	4032163	27.6KV_3P_Y1/0_AL	Overhead Line	25.1	530.0000		2495.3	2183.2	3005.9	160.0	140.4	193.9	30.2	26.5	36.6	97.85	97.60	97.25	6382.9

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2120799	4032592	27.6KV_3P_Y1/0_AL	Overhead Line	33.0	530.0000		2495.2	2183.1	3005.6	160.0	140.4	193.9	30.2	26.5	36.6	97.85	97.60	97.24	6415.9
LTM02	GR2120800	18996945	27.6KV_3P_Y1/0_AL	Overhead Line	56.8	530.0000		2495.1	2169.5	3005.2	160.0	139.5	193.9	30.2	26.3	36.6	97.84	97.58	97.22	6472.7
LTM02	GR2120801	18185463	27.6KV_3P_Y1/0_AL	Overhead Line	34.7	530.0000		2362.2	2035.1	2892.5	151.5	130.9	186.7	28.6	24.7	35.2	97.83	97.57	97.20	6507.4
LTM02	GR2120802	18203537	27.6KV_3P_N1/0_AL	Overhead Line	4.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.83	97.57	97.20	6511.4
LTM02	GR2120808	4043316	27.6KV_3P_Y1/0_AL	Overhead Line	36.8	530.0000		2362.0	2034.9	2892.1	151.5	130.9	186.7	28.6	24.7	35.2	97.82	97.56	97.19	6544.2
LTM02	GR2120809	18190640	27.6KV_3P_Y1/0_AL	Overhead Line	50.5	530.0000		2335.7	2008.3	2869.5	149.8	129.2	185.3	28.3	24.4	35.0	97.82	97.55	97.17	6594.7
LTM02	GR2120810	18190639	27.6KV_3P_N1/0_AL	Overhead Line	4.7	530.0000		477.3	572.8	374.1	30.6	36.8	24.2	5.8	7.0	4.6	97.82	97.55	97.17	6599.5
LTM02	GR2120940	4043317	27.6KV_3P_Y1/0_AL	Overhead Line	9.5	530.0000		1858.2	1435.3	2494.9	119.2	92.3	161.1	22.5	17.4	30.4	97.82	97.55	97.17	6604.3
LTM02	GR2120941	4043318	27.6KV_3P_Y1/0_AL	Overhead Line	31.6	530.0000		1858.2	1435.3	2494.8	119.2	92.3	161.1	22.5	17.4	30.4	97.81	97.54	97.15	6635.9
LTM02	GR2120942	4032572	27.6KV_3P_Y1/0_AL	Overhead Line	61.6	530.0000		1858.2	1435.2	2494.5	119.2	92.3	161.1	22.5	17.4	30.4	97.81	97.53	97.13	6697.5
LTM02	GR2120943	4032571	27.6KV_3P_Y1/0_AL	Overhead Line	76.4	530.0000		1858.1	1435.0	2460.4	119.2	92.3	159.0	22.5	17.4	30.0	97.80	97.52	97.10	6773.9
LTM02	GR2120944	4032570	27.6KV_3P_Y1/0_AL	Overhead Line	72.7	530.0000		1818.2	1434.8	2459.7	116.7	92.3	159.0	22.0	17.4	30.0	97.79	97.50	97.08	6846.5
LTM02	GR2120945	4033347	27.6KV_3P_Y1/0_AL	Overhead Line	60.9	530.0000		1818.1	1421.3	2459.0	116.7	91.5	159.0	22.0	17.3	30.0	97.79	97.49	97.06	6907.4
LTM02	GR2120946	4046737	27.6KV_3P_Y1/0_AL	Overhead Line	61.1	530.0000		1818.0	1415.8	2458.5	116.7	91.1	159.0	22.0	17.2	30.0	97.78	97.48	97.03	6968.6
LTM02	GR2120947	18988691	27.6KV_3P_Y1/0_AL	Overhead Line	10.5	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.78	97.48	97.03	6979.0
LTM02	GR2120948	18988693	27.6KV_3P_Y1/0_AL	Overhead Line	4.9	530.0000		1818.0	1415.7	2458.0	116.7	91.1	159.0	22.0	17.2	30.0	97.78	97.48	97.03	6973.5
LTM02	GR2120949	18988684	27.6KV_3P_Y1/0_AL	Overhead Line	5.8	530.0000		1818.0	1415.6	2457.9	116.7	91.1	159.0	22.0	17.2	30.0	97.78	97.48	97.03	6979.2
LTM02	GR2120950	18988690	27.6KV_3P_Y1/0_AL	Overhead Line	10.5	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.78	97.48	97.03	6989.7
LTM02	GR2120951	4031958	27.6KV_3P_Y1/0_AL	Overhead Line	40.7	530.0000		1817.9	1415.6	2457.9	116.7	91.1	159.0	22.0	17.2	30.0	97.78	97.47	97.01	7020.0
LTM02	GR2120952	4031957	27.6KV_3P_Y1/0_AL	Overhead Line	22.7	530.0000		1817.9	1402.2	2457.5	116.7	90.3	159.0	22.0	17.0	30.0	97.78	97.47	97.01	7042.6
LTM02	GR2120953	18166309	27.6KV_3P_Y1/0_AL	Overhead Line	13.8	530.0000		1817.9	1402.1	2457.3	116.7	90.3	159.0	22.0	17.0	30.0	97.77	97.46	97.00	7056.4
LTM02	GR2120954	18166954	27.6KV_3P_Y556_ASC	Overhead Line	42.9	730.0000		59.5	60.1	83.7	3.8	3.9	5.4	0.5	0.5	0.7	97.77	97.46	97.00	7099.3
LTM02	GR2120955	18982668	27.6KV_3P_Y556_ASC	Overhead Line	73.8	730.0000		59.5	60.2	83.7	3.8	3.9	5.4	0.5	0.5	0.7	97.77	97.46	97.00	7173.1
LTM02	GR2120956	18982384	27.6KV_3P_Y556_ASC	Overhead Line	75.6	730.0000		59.5	60.2	83.7	3.8	3.9	5.4	0.5	0.5	0.7	97.77	97.46	97.00	7248.6
LTM02	GR2120957	18982386	27.6KV_3P_Y556_ASC	Overhead Line	39.2	730.0000		59.5	60.2	61.4	3.8	3.9	4.0	0.5	0.5	0.5	97.77	97.46	97.00	7287.9
LTM02	GR2120958	13544442	27.6KV_1P_N3/0_ACSR	Overhead Line	4.1	530.0000				11.1			0.7			0.1			97.00	7292.0
LTM02	GR2120959	13544420	27.6KV_1P_N3/0_ACSR	Overhead Line	7.7	530.0000				11.1			0.7			0.1			97.00	7299.7
LTM02	GR2120960	4041976	27.6KV_1P_Y1/0_AL	Overhead Line	57.8	230.0000				11.1			0.7			0.3			97.00	7357.5
LTM02	GR2120961	4043603	27.6KV_1P_Y1/0_AL	Overhead Line	57.6	230.0000				11.1			0.7			0.3			97.00	7415.1
LTM02	GR2120964	18981969	27.6KV_3P_Y556_ASC	Overhead Line	48.0	730.0000		59.5	60.2	50.2	3.8	3.9	3.3	0.5	0.5	0.4	97.77	97.46	97.00	7335.9
LTM02	GR2120965	18981974	27.6KV_3P_Y556_ASC	Overhead Line	50.8	730.0000		59.6	60.2	50.3	3.8	3.9	3.3	0.5	0.5	0.4	97.77	97.46	97.00	7386.7
LTM02	GR2120966	18981973	27.6KV_3P_Y556_ASC	Overhead Line	48.1	730.0000		19.7	19.9	16.6	1.3	1.3	1.1	0.2	0.2	0.1	97.77	97.46	97.00	7434.8
LTM02	GR2120967	18981971	27.6KV_3P_Y556_ASC	Overhead Line	48.3	730.0000		0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	7483.1
LTM02	GR2120968	18982392	27.6KV_3P_Y556_ASC	Overhead Line	44.9	730.0000		0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	7528.0
LTM02	GR2120969	18982406	27.6KV_3P_Y556_ASC	Overhead Line	44.8	730.0000		0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	7572.7
LTM02	GR2120970	18982426	27.6KV_3P_Y556_ASC	Overhead Line	51.8	730.0000		0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	7624.6
LTM02	GR2120971	18982444	27.6KV_3P_Y556_ASC	Overhead Line	45.3	730.0000		0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	7669.9
LTM02	GR2120972	18982468	27.6KV_3P_Y556_ASC	Overhead Line	43.9	730.0000		0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	7713.8
LTM02	GR2120973	18982475	27.6KV_3P_Y556_ASC	Overhead Line	50.2	730.0000		0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	7764.0
LTM02	GR2120974	18982490	27.6KV_3P_Y556_ASC	Overhead Line	48.0	730.0000		0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	7811.9
LTM02	GR2120975	18982492	27.6KV_3P_Y556_ASC	Overhead Line	50.1	730.0000		0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	7862.0
LTM02	GR2120976	18982505	27.6KV_3P_Y556_ASC	Overhead Line	44.0	730.0000		0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	7906.0
LTM02	GR2120977	18982518	27.6KV_3P_Y556_ASC	Overhead Line	52.0	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	7958.0
LTM02	GR2120978	18982527	27.6KV_3P_Y556_ASC	Overhead Line	48.2	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	8006.2
LTM02	GR2120979	18982554	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	8060.0
LTM02	GR2120980	18982555	27.6KV_3P_Y556_ASC	Overhead Line	43.9	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	8103.9
LTM02	GR2120981	18982556	27.6KV_3P_Y556_ASC	Overhead Line	4.1	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	8108.0
LTM02	GR2120982	18167246	27.6KV_3P_N556_ASC	Overhead Line	10.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	8118.5
LTM02	GR2120983	18167249	27.6KV_3P_Y556_ASC	Overhead Line	5.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.46	97.00	8113.5
LTM02	GR2120990	4031956	27.6KV_3P_Y1/0_AL	Overhead Line	30.9	530.0000		1758.4	1342.0	2373.5	112.9	86.4	153.6	21.3	16.3	29.0	97.77	97.46	96.99	7087.3
LTM02	GR2120991	17240951	27.6KV_3P_Y1/0_AL	Overhead Line	4.6	530.0000		619.5	536.4	766.2	39.8	34.5	49.6	7.5	6.5	9.4	97.77	97.46	96.99	7091.9
LTM02	GR2121226	18135189	27.6KV_3P_Y1/0_AL	Overhead Line	30.6	530.0000		1138.8	805.5	1607.0	73.1	51.9	104.0	13.8	9.8	19.6	97.77	97.45	96.98	7118.0
LTM02	GR2121227	18110704	27.6KV_3P_Y1/0_AL	Overhead Line	27.7	530.0000		1138.8	805.5	1453.6	73.1	51.9	94.1	13.8	9.8	17.7	97.77	97.45	96.98	7145.6
LTM02	GR2121228	18135186	27.6KV_3P_Y1/0_AL	Overhead Line	11.7	530.0000		1138.8	805.5	1453.5	73.1	51.9	94.1	13.8	9.8	17.7	97.77	97.45	96.97	7157.3
LTM02	GR2121229	18110709	27.6KV_3P_Y1/0_AL	Overhead Line	49.0	530.0000		691.3	631.3	1180.7	44.4	40.7	76.4	8.4	7.7	14.4	97.77	97.45	96.97	7206.4
LTM02	GR2121230	4031955	27.6KV_3P_Y1/0_AL	Overhead Line	84.2	530.0000		671.7	631.2	1180.6	43.1	40.7	76.4	8.1	7.7	14.4	97.77	97.44	96.95	7290.5
LTM02	GR2121231	4031954	27.6KV_3P_Y1/0_AL	Overhead Line	54.1	530.0000		671.7	631.2	1180.5	43.1	40.7	76.4	8.1	7.7	14.4	97.77	97.43	96.94	7344.6
LTM02	GR2121232	13551815	27.6KV_3P_Y1/0_AL	Overhead Line	57.3	530.0000		671.7	625.9	1180.4	43.1	40.3	76.4	8.1	7.6	14.4	97.77	97.42	96.93	7401.9
LTM02	GR2121233	4031953	27.6KV_3P_Y1/0_AL	Overhead Line	15.6	530.0000		671.7	625.9	1180.3	43.1	40.3	76.4	8.1	7.6	14.4	97.77	97.42	96.93	7417.5
LTM02	GR2121234	4031952	27.6KV_3P_Y1/0_AL	Overhead Line	38.5	530.0000		671.8	625.9	1180.2	43.1	40.3	76.4	8.1	7.6	14.4	97.77	97.42	96.92	7456.0
LTM02	GR2121235	18100499	27.6KV_3P_N1/0_AL	Overhead Line	1.9	530.0000		88.5	89.5	74.7	5.7	5.8	4.8	1.1	1.1	0.9	97.77	97.42	96.92	7457.9
LTM02	GR2121241	4031951	27.6KV_3P_Y1/0_AL	Overhead Line	44.8	530.0000		583.3	536.3	1105.4	37.4	34.6	71.6	7.1	6.5	13.5	97.77	97.41	96.92	7500.8
LTM02	GR2121242	18063430	27.6KV_3P_Y1/0_AL	Overhead Line	17.1	530.0000		583.3	536.3	1105.4	37.4	34.6	71.6	7.1	6.5	13.5	97.77	97.41	96.91	7517.9
LTM02	GR2121243	17242240	27.6KV_3P_N1/0_AL	Overhead Line	4.1	530.0000		583.3	536.4	1094.2	37.4	34.6	70.9	7.1	6.5	13.4	97.77	97.41	96.91	7522.0
LTM02	GR2121486	4031950	27.6KV_3P_Y1/0_AL	Overhead Line	63.3	530.0000		0.1	0.1	11.1	0.0	0.0	0.7	0.0	0.0	0.1	97.77	97.41	96.91	7581.2
LTM02	GR2121487	4031949	27.6KV_3P_Y556_ACSR	Overhead Line	34.0	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.41	96.91	7615.2
LTM02	GR2121488	18167217	27.6KV_3P_N556_ACSR	Overhead Line	10.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.41	96.91	7625.5
LTM02	GR2121489	18167221	27.6KV_3P_N556_ACSR	Overhead Line	5.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.77	97.41	96.91	7620.7
LTM02	GR2121492	4047428	27.6KV_1P_Y1/0_AL	Overhead Line	26.0	230.0000				5.3			0.3			0.1			97.43	7370.6
LTM02	GR2121493	4033485	27.6KV_1P_Y1/0_AL	Overhead Line	73.0	230.0000				5.3			0.3			0.1			97.43	7443.6
LTM02	GR2121494	4043889	27.6KV_1P_Y1/0_AL	Overhead Line	53.9	230.0000				5.3			0.3			0.1			97.43	7497.5
LTM02	GR2121495	4044063	27.6KV_1P_Y1/0_AL	Overhead Line	79.6	230.0000				5.3			0.3			0.1			97.43	7577.1
LTM02	GR2121496	4044274	27.6KV_1P_Y1/0_AL	Overhead Line	65.0	230.0000				5.3			0.3			0.1			97.43	7642.1
LTM02	GR2121501	18191660	27.6KV_3P_N1/0_AL	Overhead Line	3.5	530.0000		447.5	174.2	272.8	28.7	11.2	17.7	5.4	2.1	3.3	97.77	97.45	96.97	7160.8
LTM02	GR2121589	18190593	27.6KV_1P_N1/0_AL	Overhead Line	2.9	530.0000				153.3			9.9			1.9			96.98	7120.9
LTM02	GR2121621	4047420	27.6KV_3P_Y1/0_AL	Overhead Line	34.7	530.0000		26.2	26.4	22.1	1.7	1.7	1.4	0.3	0.3	0.3	97.82	97.56	97.19	6579.0

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2121622	4047421	27.6KV_3P_Y1/0_AL	Overhead Line	30.8	530.0000		26.2	26.5	22.1	1.7	1.7	1.4	0.3	0.3	0.3	97.82	97.56	97.19	6609.7
LTM02	GR2121623	4047422	27.6KV_3P_Y1/0_AL	Overhead Line	41.7	530.0000		26.2	26.5	22.2	1.7	1.7	1.4	0.3	0.3	0.3	97.82	97.56	97.19	6651.4
LTM02	GR2121626	18203542	27.6KV_3P_N1/0_AL	Overhead Line	3.6	530.0000		132.6	134.1	112.0	8.5	8.6	7.2	1.6	1.6	1.4	97.84	97.58	97.22	6476.3
LTM02	GR2121636	4045231	27.6KV_1P_Y1/0_AL	Overhead Line	33.0	230.0000		26.4			1.7			0.7			97.90			6159.6
LTM02	GR2121637	4045232	27.6KV_1P_Y1/0_AL	Overhead Line	57.3	230.0000		26.4			1.7			0.7			97.90			6216.9
LTM02	GR2121638	4045229	27.6KV_1P_Y1/0_AL	Overhead Line	57.2	230.0000		26.4			1.7			0.7			97.90			6274.1
LTM02	GR2121639	4047860	27.6KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000		13.2			0.8			0.4			97.90			6340.1
LTM02	GR2121666	4042986	27.6KV_3P_Y556_AL	Overhead Line	2.9	730.0000		177.0	179.0	149.5	11.3	11.5	9.6	1.5	1.6	1.3	98.20	98.07	97.92	4733.9
LTM02	GR2121667	11329377	27.6KV_3P_Y1/0_AL	Overhead Line	21.8	530.0000		177.0	179.0	149.5	11.3	11.5	9.6	2.1	2.2	1.8	98.20	98.07	97.92	4755.6
LTM02	GR2121668	11219026	27.6KV_3P_N1/0_AL	Overhead Line	3.6	530.0000		177.0	179.0	149.5	11.3	11.5	9.6	2.1	2.2	1.8	98.20	98.07	97.92	4759.3
LTM02	GR2121669	4046422	27.6KV_3P_Y1/0_AL	Overhead Line	5.6	530.0000		177.0	179.0	149.5	11.3	11.5	9.6	2.1	2.2	1.8	98.20	98.07	97.92	4764.8
LTM02	GR2121680	11219027	27.6KV_3P_Y1/0_AL	Overhead Line	2.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.20	98.07	97.92	4757.8
LTM02	GR2121693	4043365	27.6KV_3P_Y556_AL	Overhead Line	4.7	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.56	98.56	98.56	3068.0
LTM02	GR2121694	4044763	27.6KV_3P_Y556_AL	Overhead Line	6.6	730.0000		1066.3	1265.1	757.5	67.9	80.6	48.2	9.3	11.0	6.6	98.56	98.56	98.56	3069.8
LTM02	GR2121695	4044764	27.6KV_3P_Y556_AL	Overhead Line	60.5	730.0000		1066.2	1265.1	757.5	67.9	80.6	48.2	9.3	11.0	6.6	98.56	98.56	98.56	3130.3
LTM02	GR2121696	4044765	27.6KV_3P_Y556_AL	Overhead Line	65.6	730.0000		1066.2	1265.1	757.5	67.9	80.6	48.2	9.3	11.0	6.6	98.55	98.55	98.55	3195.9
LTM02	GR2121697	4044766	27.6KV_3P_Y556_AL	Overhead Line	65.1	730.0000		1066.1	1265.0	757.5	67.9	80.6	48.2	9.3	11.0	6.6	98.54	98.54	98.55	3261.1
LTM02	GR2121698	4044767	27.6KV_3P_Y556_AL	Overhead Line	59.3	730.0000		1066.0	1265.0	757.5	67.9	80.6	48.2	9.3	11.0	6.6	98.53	98.54	98.55	3320.4
LTM02	GR2121699	4045503	27.6KV_3P_Y556_AL	Overhead Line	61.7	730.0000		1065.9	1264.9	757.5	67.9	80.6	48.2	9.3	11.0	6.6	98.52	98.53	98.55	3382.1
LTM02	GR2121700	4044768	27.6KV_3P_Y556_AL	Overhead Line	62.9	730.0000		1065.9	1264.8	757.5	67.9	80.6	48.2	9.3	11.0	6.6	98.51	98.53	98.55	3445.0
LTM02	GR2121701	4044770	27.6KV_3P_Y556_AL	Overhead Line	66.6	730.0000		1065.8	1264.8	757.5	67.9	80.6	48.2	9.3	11.0	6.6	98.50	98.52	98.55	3511.6
LTM02	GR2121702	11353820	27.6KV_3P_Y556_AL	Overhead Line	57.2	730.0000		311.6	301.7	260.8	19.9	19.2	16.6	2.7	2.6	2.3	98.50	98.52	98.55	3568.8
LTM02	GR2121703	11353822	27.6KV_3P_Y556_AL	Overhead Line	56.3	730.0000		311.7	301.7	260.8	19.9	19.2	16.6	2.7	2.6	2.3	98.50	98.52	98.55	3625.1
LTM02	GR2121704	11353823	27.6KV_3P_Y556_AL	Overhead Line	63.6	730.0000		46.0	33.1	36.6	2.9	2.1	2.3	0.4	0.3	0.3	98.50	98.52	98.55	3688.6
LTM02	GR2121705	11359812	27.6KV_3P_Y556_AL	Overhead Line	23.3	730.0000		46.0	19.8	36.6	2.9	1.3	2.3	0.4	0.2	0.3	98.50	98.52	98.55	3712.0
LTM02	GR2121706	11359813	27.6KV_3P_Y556_AL	Overhead Line	23.1	730.0000		46.0	19.8	36.6	2.9	1.3	2.3	0.4	0.2	0.3	98.50	98.52	98.55	3735.1
LTM02	GR2121707	11360130	27.6KV_3P_Y556_AL	Overhead Line	35.9	730.0000		26.3	0.6	11.0	1.7	0.0	0.7	0.2	0.0	0.1	98.50	98.52	98.55	3771.0
LTM02	GR2121708	11371703	27.6KV_3P_Y556_AL	Overhead Line	3.7	730.0000		26.3	0.6	11.0	1.7	0.0	0.7	0.2	0.0	0.1	98.50	98.52	98.55	3774.8
LTM02	GR2121709	11360127	27.6KV_3P_Y556_AL	Overhead Line	26.4	730.0000		26.3	0.6	11.0	1.7	0.0	0.7	0.2	0.0	0.1	98.50	98.52	98.55	3801.1
LTM02	GR2121710	11360124	27.6KV_3P_Y556_AL	Overhead Line	30.0	730.0000		26.3	0.6	11.0	1.7	0.0	0.7	0.2	0.0	0.1	98.50	98.52	98.55	3831.2
LTM02	GR2121711	11360123	27.6KV_3P_Y556_AL	Overhead Line	34.4	730.0000		26.3	0.5	11.0	1.7	0.0	0.7	0.2	0.0	0.1	98.50	98.52	98.55	3865.6
LTM02	GR2121712	11360119	27.6KV_3P_Y556_AL	Overhead Line	55.7	730.0000		26.4	0.5	11.0	1.7	0.0	0.7	0.2	0.0	0.1	98.50	98.52	98.55	3921.2
LTM02	GR2121713	11360117	27.6KV_3P_Y556_AL	Overhead Line	51.3	730.0000		0.4	0.4	11.0	0.0	0.0	0.7	0.0	0.0	0.1	98.50	98.52	98.55	3972.6
LTM02	GR2121714	11360113	27.6KV_3P_Y556_AL	Overhead Line	50.2	730.0000		0.4	0.4	11.1	0.0	0.0	0.7	0.0	0.0	0.1	98.50	98.52	98.55	4022.7
LTM02	GR2121715	11360111	27.6KV_3P_Y556_AL	Overhead Line	55.3	730.0000		0.3	0.3	11.1	0.0	0.0	0.7	0.0	0.0	0.1	98.50	98.52	98.54	4078.0
LTM02	GR2121716	11360105	27.6KV_3P_Y556_AL	Overhead Line	50.8	730.0000		0.3	0.3	11.1	0.0	0.0	0.7	0.0	0.0	0.1	98.50	98.52	98.54	4128.8
LTM02	GR2121717	11360100	27.6KV_3P_Y556_AL	Overhead Line	50.7	730.0000		0.2	0.2	11.1	0.0	0.0	0.7	0.0	0.0	0.1	98.50	98.52	98.54	4179.5
LTM02	GR2121718	11359990	27.6KV_3P_Y556_AL	Overhead Line	32.5	730.0000		0.2	0.2	11.1	0.0	0.0	0.7	0.0	0.0	0.1	98.50	98.52	98.54	4211.9
LTM02	GR2121719	11360095	27.6KV_3P_Y556_AL	Overhead Line	30.8	730.0000		0.1	0.1	11.1	0.0	0.0	0.7	0.0	0.0	0.1	98.50	98.52	98.54	4242.8
LTM02	GR2121720	11360097	27.6KV_3P_Y556_AL	Overhead Line	26.8	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.50	98.52	98.54	4269.6
LTM02	GR2121721	11360004	27.6KV_3P_Y556_AL	Overhead Line	58.9	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.50	98.52	98.54	4328.5
LTM02	GR2121726	18113516	27.6KV_3P_Y556_ASC	Overhead Line	51.2	730.0000		19.7	19.9	25.6	1.3	1.3	1.6	0.2	0.2	0.2	98.50	98.52	98.55	3786.3
LTM02	GR2121727	19047121	27.6KV_3P_Y556_ASC	Overhead Line	47.9	730.0000		19.7	20.0	25.6	1.3	1.3	1.6	0.2	0.2	0.2	98.50	98.52	98.55	3834.2
LTM02	GR2121728	19047122	27.6KV_3P_Y556_ASC	Overhead Line	39.2	730.0000		19.8	20.0	25.6	1.3	1.3	1.6	0.2	0.2	0.2	98.50	98.52	98.55	3873.4
LTM02	GR2121729	19047123	27.6KV_3P_Y556_ASC	Overhead Line	37.7	730.0000		19.8	20.0	25.6	1.3	1.3	1.6	0.2	0.2	0.2	98.50	98.52	98.55	3911.1
LTM02	GR2121730	19047124	27.6KV_3P_Y556_ASC	Overhead Line	50.0	730.0000		19.8	20.0	21.2	1.3	1.3	1.3	0.2	0.2	0.2	98.50	98.52	98.55	3961.1
LTM02	GR2121731	19047125	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		19.8	20.0	21.2	1.3	1.3	1.3	0.2	0.2	0.2	98.50	98.52	98.55	4015.3
LTM02	GR2121732	19047126	27.6KV_3P_Y556_ASC	Overhead Line	48.0	730.0000		19.8	20.0	21.2	1.3	1.3	1.3	0.2	0.2	0.2	98.50	98.52	98.55	4063.3
LTM02	GR2121733	19047147	27.6KV_3P_Y556_ASC	Overhead Line	44.9	730.0000		19.8	20.0	21.2	1.3	1.3	1.4	0.2	0.2	0.2	98.50	98.52	98.55	4108.2
LTM02	GR2121734	19047150	27.6KV_3P_Y556_ASC	Overhead Line	54.7	730.0000		19.8	20.0	21.2	1.3	1.3	1.4	0.2	0.2	0.2	98.50	98.52	98.55	4162.9
LTM02	GR2121735	19047151	27.6KV_3P_Y556_ASC	Overhead Line	44.7	730.0000		19.8	20.1	21.2	1.3	1.3	1.4	0.2	0.2	0.2	98.50	98.52	98.54	4207.6
LTM02	GR2121736	19047152	27.6KV_3P_Y556_ASC	Overhead Line	55.2	730.0000		19.9	20.1	21.2	1.3	1.3	1.4	0.2	0.2	0.2	98.50	98.52	98.54	4262.8
LTM02	GR2121737	19047153	27.6KV_3P_Y556_ASC	Overhead Line	60.8	730.0000		0.1	0.1	4.5	0.0	0.0	0.3	0.0	0.0	0.0	98.50	98.52	98.54	4323.5
LTM02	GR2121746	11359413	27.6KV_3P_N556_AL	Overhead Line	4.2	730.0000		265.7	268.7	224.3	16.9	17.1	14.3	2.3	2.3	2.0	98.50	98.52	98.55	3629.3
LTM02	GR2121751	11561241	27.6KV_3P_Y556_AL	Overhead Line	60.5	730.0000		754.1	963.1	496.9	48.0	61.3	31.6	6.6	8.4	4.3	98.49	98.51	98.55	3572.2
LTM02	GR2121752	4044772	27.6KV_3P_Y556_AL	Overhead Line	61.5	730.0000		754.1	963.1	496.9	48.0	61.3	31.6	6.6	8.4	4.3	98.49	98.51	98.55	3633.7
LTM02	GR2121753	4044773	27.6KV_3P_Y556_AL	Overhead Line	59.5	730.0000		754.0	963.0	496.9	48.0	61.3	31.6	6.6	8.4	4.3	98.48	98.51	98.55	3693.2
LTM02	GR2121754	4044774	27.6KV_3P_Y556_AL	Overhead Line	63.7	730.0000		754.0	963.0	496.9	48.0	61.4	31.6	6.6	8.4	4.3	98.47	98.50	98.55	3756.9
LTM02	GR2121755	4044779	27.6KV_3P_Y556_AL	Overhead Line	63.3	730.0000		754.0	963.0	496.9	48.0	61.4	31.6	6.6	8.4	4.3	98.47	98.50	98.55	3820.2
LTM02	GR2121756	4044781	27.6KV_3P_Y556_AL	Overhead Line	65.1	730.0000		753.9	963.0	496.9	48.1	61.4	31.6	6.6	8.4	4.3	98.46	98.49	98.55	3885.2
LTM02	GR2121757	11321343	27.6KV_3P_Y1/0_AL	Overhead Line	57.2	530.0000		753.9	962.9	497.0	48.1	61.4	31.6	9.1	11.6	6.0	98.45	98.49	98.55	3942.4
LTM02	GR2121758	15481717	27.6KV_3P_Y556_AL	Overhead Line	4.8	730.0000		365.4	356.1	297.6	23.3	22.7	19.0	3.2	3.1	2.6	98.45	98.49	98.55	3947.2
LTM02	GR2121759	15481837	27.6KV_3P_Y556_AL	Overhead Line	10.0	730.0000		365.4	356.1	297.6	23.3	22.7	19.0	3.2	3.1	2.6	98.45	98.49	98.55	3957.2
LTM02	GR2121760	15481763	27.6KV_3P_Y556_AL	Overhead Line	3.9	730.0000		365.4	356.1	297.6	23.3	22.7	19.0	3.2	3.1	2.6	98.45	98.49	98.55	3961.1
LTM02	GR2121761	15481838	27.6KV_3P_Y556_AL	Overhead Line	4.8	730.0000		365.4	356.1	297.6	23.3	22.7	19.0	3.2	3.1	2.6	98.45	98.49	98.55	3966.0
LTM02	GR2121762	15481841	27.6KV_3P_Y556_AL	Overhead Line	7.4	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.45	98.49	98.55	3973.3
LTM02	GR2121763	15482606	27.6KV_3P_Y556_AL	Overhead Line	12.6	730.0000		365.5	356.1	297.6	23.3	22.7	19.0	3.2	3.1	2.6	98.45	98.48	98.55	3978.5
LTM02	GR2121764	15482927	27.6KV_3P_Y556_AL	Overhead Line	6.6	730.0000		365.5	356.1	297.6	23.3	22.7	19.0	3.2	3.1	2.6	98.45	98.48	98.55	3985.1
LTM02	GR2121765	16487594	27.6KV_3P_Y556_AL	Overhead Line	3.1	730.0000		365.5	356.1	297.6	23.3	22.7	19.0	3.2	3.1	2.6	98.45	98.48	98.55	3988.2
LTM02	GR2121766	15484880	27.6KV_3P_Y556_AL	Overhead Line	12.0	730.0000		352.3	356.1	297.6	22.5	22.7	19.0	3.1	3.1	2.6	98.45	98.48	98.55	4000.2
LTM02	GR2121771	15481836	27.6KV_3P_Y556_AL	Overhead Line	7.5	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.45	98.49	98.55	3964.8
LTM02	GR2121772	4044784	27.6KV_3P_Y1/0_AL	Overhead Line	65.8	530.0000		388.5	606.8	199.6	24.8	38.7	12.7	4.7	7.3	2.4	98.45	98.48	98.55	4008.2
LTM02	GR2121773	4044786	27.6KV_3P_Y1/0_AL	Overhead Line	60.9	530.0000		388.5	606.8	199.6	24.8	38.7	12.7	4.7	7.3	2.4	98.44	98.48	98.55	4069.1
LTM02	GR2121774	4046864	27.6KV_3P_Y1/0_AL	Overhead Line	66.6	530.0000		383.2	606.8	199.7	24.4	38.7	12.7	4.6	7.3	2.4	98.44	98.47	98.55	4135.6
LTM02	GR2121775	4042528	27.6KV_3P_Y1/0_AL	Overhead Line	63.9	530.0000		383.2	606.8	199.7	24.4	38.7	12.7	4.6	7.3	2.4	98.43	98.47	98.55	4199.5
LTM02	GR2121776	4032590	27.6KV_3P_Y1/0_AL	Overhead Line	62.0	530.0000		383.2	606.8	199.7	24.4	38.7	12.7	4.6	7.3	2.4	98.43	98.46	98.55	4261.5

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2121777	4032588	27.6KV_3P_Y1/0_AL	Overhead Line	64.2	530.0000		383.2	606.8	199.7	24.4	38.7	12.7	4.6	7.3	2.4	98.42	98.46	98.56	4325.7
LTM02	GR2121778	4032579	27.6KV_3P_Y1/0_AL	Overhead Line	64.2	530.0000		383.2	606.8	199.7	24.4	38.7	12.7	4.6	7.3	2.4	98.42	98.46	98.56	4389.9
LTM02	GR2121779	4045268	27.6KV_3P_Y1/0_AL	Overhead Line	65.3	530.0000		383.2	606.8	199.7	24.4	38.7	12.7	4.6	7.3	2.4	98.41	98.45	98.56	4455.1
LTM02	GR2121780	4045658	27.6KV_3P_Y1/0_AL	Overhead Line	62.1	530.0000		383.2	606.7	199.8	24.4	38.7	12.7	4.6	7.3	2.4	98.41	98.45	98.56	4517.2
LTM02	GR2121781	4041974	27.6KV_3P_Y1/0_AL	Overhead Line	61.7	530.0000		383.2	606.7	199.8	24.4	38.7	12.7	4.6	7.3	2.4	98.40	98.44	98.56	4578.9
LTM02	GR2121782	4041995	27.6KV_3P_Y1/0_AL	Overhead Line	63.1	530.0000		383.2	606.7	199.8	24.4	38.7	12.7	4.6	7.3	2.4	98.40	98.44	98.56	4642.0
LTM02	GR2121783	4041998	27.6KV_3P_Y1/0_AL	Overhead Line	58.2	530.0000		383.2	606.7	199.8	24.4	38.7	12.7	4.6	7.3	2.4	98.39	98.44	98.56	4700.3
LTM02	GR2121784	4042001	27.6KV_3P_Y1/0_AL	Overhead Line	55.6	530.0000		383.2	606.7	199.8	24.4	38.7	12.7	4.6	7.3	2.4	98.39	98.43	98.56	4755.8
LTM02	GR2121785	4042008	27.6KV_3P_Y1/0_AL	Overhead Line	61.1	530.0000		383.2	606.7	199.8	24.4	38.7	12.7	4.6	7.3	2.4	98.38	98.43	98.57	4816.9
LTM02	GR2121786	4046839	27.6KV_3P_Y1/0_AL	Overhead Line	55.7	530.0000		383.2	593.4	199.8	24.4	37.8	12.7	4.6	7.1	2.4	98.38	98.42	98.57	4872.6
LTM02	GR2121787	4043404	27.6KV_3P_Y1/0_AL	Overhead Line	58.8	530.0000		383.2	593.4	199.9	24.4	37.8	12.7	4.6	7.1	2.4	98.37	98.42	98.57	4931.4
LTM02	GR2121788	4042873	27.6KV_1P_Y1/0_AL	Overhead Line	6.1	230.0000			80.3			5.1			2.2			98.42		4937.4
LTM02	GR2121789	4042444	27.6KV_1P_Y1/0_AL	Overhead Line	26.6	230.0000			80.3			5.1			2.2			98.42		4964.0
LTM02	GR2121790	4042446	27.6KV_1P_Y1/0_AL	Overhead Line	43.4	230.0000			80.3			5.1			2.2			98.42		5007.4
LTM02	GR2121791	10259684	27.6KV_1P_N1/0_AL	Overhead Line	35.5	530.0000			53.6			3.4			0.6			98.42		5042.9
LTM02	GR2121794	4042450	27.6KV_1P_Y1/0_AL	Overhead Line	28.7	230.0000			26.8			1.7			0.7			98.42		5036.1
LTM02	GR2121795	4047638	27.6KV_1P_Y1/0_AL	Overhead Line	31.1	230.0000			26.8			1.7			0.7			98.42		5067.3
LTM02	GR2121798	4043405	27.6KV_3P_Y1/0_AL	Overhead Line	64.4	530.0000		383.2	513.0	199.9	24.4	32.7	12.7	4.6	6.2	2.4	98.37	98.42	98.57	4995.8
LTM02	GR2121799	4043410	27.6KV_3P_Y1/0_AL	Overhead Line	47.7	530.0000		383.2	505.0	199.9	24.4	32.2	12.7	4.6	6.1	2.4	98.36	98.42	98.57	5043.4
LTM02	GR2121800	4043412	27.6KV_3P_Y1/0_AL	Overhead Line	42.1	530.0000		383.2	505.0	199.9	24.4	32.2	12.7	4.6	6.1	2.4	98.36	98.41	98.57	5085.6
LTM02	GR2121801	4031239	JUMPER	Overhead Line	0.0	600.0000			53.5			3.4			0.6			98.41		5085.6
LTM02	GR2121802	4042660	27.6KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000			0.0			0.0			0.0			98.41		5088.3
LTM02	GR2121803	4044067	27.6KV_1P_Y1/0_AL	Overhead Line	61.3	230.0000			53.5			3.4			1.5			98.41		5146.9
LTM02	GR2121804	4042441	27.6KV_1P_Y1/0_AL	Overhead Line	72.4	230.0000			26.7			1.7			0.7			98.41		5219.3
LTM02	GR2121805	4042442	27.6KV_1P_Y1/0_AL	Overhead Line	66.7	230.0000			0.1			0.0			0.0			98.41		5285.9
LTM02	GR2121806	4042443	27.6KV_1P_Y1/0_AL	Overhead Line	75.7	230.0000			0.1			0.0			0.0			98.41		5361.6
LTM02	GR2121809	4042872	27.6KV_1P_Y1/0_AL	Overhead Line	3.4	230.0000			26.8			1.7			0.7			98.41		5150.3
LTM02	GR2121810	4044068	27.6KV_1P_Y1/0_AL	Overhead Line	23.5	230.0000			26.8			1.7			0.7			98.41		5173.7
LTM02	GR2121813	4042659	27.6KV_3P_Y1/0_AL	Overhead Line	4.0	530.0000		383.2	451.5	199.9	24.4	28.8	12.7	4.6	5.4	2.4	98.36	98.41	98.57	5089.5
LTM02	GR2121814	4043413	27.6KV_3P_Y1/0_AL	Overhead Line	52.2	530.0000		383.2	451.5	199.9	24.4	28.8	12.7	4.6	5.4	2.4	98.36	98.41	98.57	5141.7
LTM02	GR2121815	4047149	27.6KV_3P_Y1/0_AL	Overhead Line	58.3	530.0000		383.2	451.5	199.9	24.4	28.8	12.7	4.6	5.4	2.4	98.35	98.41	98.57	5200.1
LTM02	GR2121816	4042464	27.6KV_3P_Y1/0_AL	Overhead Line	56.7	530.0000		383.2	451.5	199.9	24.4	28.8	12.7	4.6	5.4	2.4	98.35	98.41	98.57	5256.7
LTM02	GR2121817	4042465	27.6KV_3P_Y1/0_AL	Overhead Line	54.6	530.0000		383.2	451.5	199.9	24.4	28.8	12.7	4.6	5.4	2.4	98.35	98.40	98.57	5311.4
LTM02	GR2121818	4042467	27.6KV_3P_Y1/0_AL	Overhead Line	56.2	530.0000		383.2	451.5	200.0	24.4	28.8	12.7	4.6	5.4	2.4	98.34	98.40	98.57	5367.6
LTM02	GR2121819	15587313	27.6KV_1P_N1/0_AL	Overhead Line	19.1	530.0000		13.1			0.8			0.2			98.34			5386.7
LTM02	GR2121820	15587314	27.6KV_1P_N1/0_AL	Overhead Line	49.5	530.0000		13.1			0.8			0.2			98.34			5436.2
LTM02	GR2121821	15587315	27.6KV_1P_N1/0_AL	Overhead Line	39.7	530.0000		13.1			0.8			0.2			98.34			5475.9
LTM02	GR2121822	15587316	27.6KV_1P_N1/0_AL	Overhead Line	43.5	530.0000		13.1			0.8			0.2			98.34			5519.4
LTM02	GR2121823	15587317	27.6KV_1P_N1/0_AL	Overhead Line	46.6	530.0000		13.1			0.8			0.2			98.34			5566.0
LTM02	GR2121824	15587318	27.6KV_1P_N1/0_AL	Overhead Line	46.9	530.0000		13.1			0.8			0.2			98.34			5613.0
LTM02	GR2121825	15587319	27.6KV_1P_N1/0_AL	Overhead Line	42.7	530.0000		13.1			0.8			0.2			98.34			5655.6
LTM02	GR2121826	15587320	27.6KV_1P_N1/0_AL	Overhead Line	47.4	530.0000		13.1			0.8			0.2			98.34			5703.0
LTM02	GR2121827	15587321	27.6KV_1P_N1/0_AL	Overhead Line	41.3	530.0000		13.2			0.8			0.2			98.34			5744.3
LTM02	GR2121828	15587322	27.6KV_1P_N1/0_AL	Overhead Line	32.4	530.0000		13.2			0.8			0.2			98.34			5776.6
LTM02	GR2121829	15587323	27.6KV_1P_N1/0_AL	Overhead Line	39.5	530.0000		13.2			0.8			0.2			98.34			5816.1
LTM02	GR2121830	15587324	27.6KV_1P_N1/0_AL	Overhead Line	60.4	530.0000		13.2			0.8			0.2			98.34			5876.5
LTM02	GR2121831	15587325	27.6KV_1P_N1/0_AL	Overhead Line	58.1	530.0000		13.2			0.8			0.2			98.34			5934.6
LTM02	GR2121834	4042468	27.6KV_3P_Y1/0_AL	Overhead Line	61.2	530.0000		370.1	451.5	200.0	23.6	28.8	12.7	4.5	5.4	2.4	98.34	98.40	98.57	5428.7
LTM02	GR2121835	15588030	27.6KV_1P_N1/0_AL	Overhead Line	29.0	530.0000				11.1			0.7			0.1			98.57	5457.8
LTM02	GR2121836	15588031	27.6KV_1P_N1/0_AL	Overhead Line	39.2	530.0000				11.1			0.7			0.1			98.57	5496.9
LTM02	GR2121837	15588032	27.6KV_1P_N1/0_AL	Overhead Line	42.0	530.0000				11.1			0.7			0.1			98.57	5538.9
LTM02	GR2121838	15588033	27.6KV_1P_N1/0_AL	Overhead Line	44.1	530.0000				11.1			0.7			0.1			98.57	5583.0
LTM02	GR2121844	4042469	27.6KV_3P_Y1/0_AL	Overhead Line	66.2	530.0000		370.1	451.6	177.7	23.6	28.8	11.3	4.5	5.4	2.1	98.33	98.40	98.57	5494.9
LTM02	GR2121845	4042470	27.6KV_3P_Y1/0_AL	Overhead Line	63.7	530.0000		370.1	451.6	177.8	23.6	28.8	11.3	4.5	5.4	2.1	98.33	98.39	98.57	5558.6
LTM02	GR2121846	4044488	27.6KV_3P_Y1/0_AL	Overhead Line	63.8	530.0000		370.1	451.6	177.8	23.6	28.8	11.3	4.5	5.4	2.1	98.32	98.39	98.57	5622.4
LTM02	GR2121847	4044489	27.6KV_3P_Y1/0_AL	Overhead Line	64.5	530.0000		370.1	451.6	177.8	23.6	28.8	11.3	4.5	5.4	2.1	98.32	98.39	98.57	5686.9
LTM02	GR2121848	4047167	27.6KV_3P_Y1/0_AL	Overhead Line	64.2	530.0000		370.1	451.6	177.8	23.6	28.8	11.3	4.5	5.4	2.1	98.32	98.39	98.57	5751.0
LTM02	GR2121849	4047168	27.6KV_3P_Y1/0_AL	Overhead Line	58.8	530.0000		370.1	451.6	177.8	23.6	28.8	11.3	4.5	5.4	2.1	98.31	98.38	98.57	5809.8
LTM02	GR2121850	4048149	27.6KV_3P_Y1/0_AL	Overhead Line	60.9	530.0000		370.1	451.6	177.8	23.6	28.8	11.3	4.5	5.4	2.1	98.31	98.38	98.57	5870.8
LTM02	GR2121851	4048150	27.6KV_3P_Y1/0_AL	Overhead Line	58.1	530.0000		370.1	451.6	177.8	23.6	28.8	11.3	4.5	5.4	2.1	98.30	98.38	98.57	5928.8
LTM02	GR2121852	4048151	27.6KV_3P_Y1/0_AL	Overhead Line	59.2	530.0000		370.1	451.6	177.9	23.6	28.8	11.3	4.5	5.4	2.1	98.30	98.38	98.57	5988.0
LTM02	GR2121853	4045073	27.6KV_3P_Y1/0_AL	Overhead Line	59.7	530.0000		370.1	451.6	177.9	23.6	28.8	11.3	4.5	5.4	2.1	98.29	98.37	98.57	6047.7
LTM02	GR2121854	4048152	27.6KV_3P_Y1/0_AL	Overhead Line	58.7	530.0000		370.1	451.6	177.9	23.6	28.8	11.3	4.5	5.4	2.1	98.29	98.37	98.57	6106.4
LTM02	GR2121855	4042641	27.6KV_3P_Y1/0_AL	Overhead Line	47.6	530.0000		370.1	451.6	177.9	23.6	28.8	11.3	4.5	5.4	2.1	98.29	98.37	98.57	6154.0
LTM02	GR2121856	4042642	27.6KV_3P_Y1/0_AL	Overhead Line	51.6	530.0000		370.1	451.6	177.9	23.6	28.8	11.3	4.5	5.4	2.1	98.28	98.37	98.57	6205.6
LTM02	GR2121857	4042643	27.6KV_3P_Y1/0_AL	Overhead Line	52.9	530.0000		370.1	451.6	177.9	23.6	28.8	11.3	4.5	5.4	2.1	98.28	98.37	98.57	6258.5
LTM02	GR2121858	4042644	27.6KV_3P_Y1/0_AL	Overhead Line	55.2	530.0000		370.1	451.6	177.9	23.6	28.8	11.3	4.5	5.4	2.1	98.28	98.36	98.57	6313.7
LTM02	GR2121859	4042645	27.6KV_3P_Y1/0_AL	Overhead Line	54.1	530.0000		370.1	451.6	177.9	23.6	28.8	11.3	4.5	5.4	2.1	98.27	98.36	98.57	6367.8
LTM02	GR2121860	4042646	27.6KV_3P_Y1/0_AL	Overhead Line	53.2	530.0000		370.1	451.6	178.0	23.6	28.8	11.3	4.5	5.4	2.1	98.27	98.36	98.57	6421.0
LTM02	GR2121861	4042647	27.6KV_3P_Y1/0_AL	Overhead Line	55.2	530.0000		370.1	451.6	178.0	23.6	28.8	11.3	4.5	5.4	2.1	98.26	98.36	98.57	6476.2
LTM02	GR2121862	4042648	27.6KV_3P_Y556_ASC	Overhead Line	44.6	730.0000		370.1	451.6	178.0	23.6	28.8	11.3	3.2	3.9	1.6	98.26	98.36	98.57	6520.8
LTM02	GR2121863	4042649	27.6KV_3P_Y556_ASC	Overhead Line	50.1	730.0000		370.1	451.6	178.0	23.6	28.8	11.3	3.2	3.9	1.6	98.26	98.35	98.57	6570.8
LTM02	GR2121864	4042650	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		370.1	451.7	178.0	23.6	28.8	11.3	3.2	3.9	1.6	98.26	98.35	98.57	6624.9
LTM02	GR2121865	18207483	27.6KV_3P_Y556_ASC	Overhead Line	45.1	730.0000		370.1	451.7	178.0	23.6	28.8	11.3	3.2	3.9	1.6	98.25	98.35	98.57	6670.0
LTM02	GR2121866	4042651	27.6KV_3P_Y556_ASC	Overhead Line	53.8	730.0000		370.1	451.7	178.0	23.6	28.8	11.3	3.2	3.9	1.6	98.25	98.35	98.57	6723.8
LTM02	GR2121867	4042652	27.6KV_3P_Y556_ASC	Overhead Line	50.0	730.0000		370.1	451.7	178.0	23.6	28.8	11.3	3.2	3.9	1.6	98.25	98.35	98.57	6773.8

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2121868	4042656	27.6KV_3P_Y556_ASC	Overhead Line	53.5	730.0000		370.1	451.7	178.0	23.6	28.8	11.3	3.2	3.9	1.6	98.24	98.35	98.57	6827.4
LTM02	GR2121869	4042840	27.6KV_3P_Y556_ASC	Overhead Line	48.0	730.0000		370.1	451.7	178.1	23.6	28.8	11.3	3.2	3.9	1.6	98.24	98.35	98.58	6875.4
LTM02	GR2121870	4042841	27.6KV_3P_Y556_ASC	Overhead Line	49.9	730.0000		370.1	451.7	133.4	23.6	28.8	8.5	3.2	3.9	1.2	98.24	98.34	98.58	6925.3
LTM02	GR2121871	18207484	27.6KV_3P_Y556_ASC	Overhead Line	59.1	730.0000		370.1	451.7	133.4	23.6	28.8	8.5	3.2	3.9	1.2	98.23	98.34	98.58	6984.4
LTM02	GR2121872	18189323	27.6KV_3P_Y556_ASC	Overhead Line	58.0	730.0000		370.1	451.7	133.5	23.6	28.8	8.5	3.2	3.9	1.2	98.23	98.34	98.58	7042.4
LTM02	GR2121873	18207410	27.6KV_3P_Y556_ASC	Overhead Line	44.8	730.0000		370.1	451.7	133.5	23.6	28.8	8.5	3.2	3.9	1.2	98.23	98.34	98.58	7087.3
LTM02	GR2121874	17992426	27.6KV_3P_Y556_ASC	Overhead Line	7.3	730.0000		370.1	451.7	133.5	23.6	28.8	8.5	3.2	3.9	1.2	98.23	98.34	98.58	7094.6
LTM02	GR2121875	18189324	27.6KV_3P_Y556_ASC	Overhead Line	54.3	730.0000		370.1	451.7	133.5	23.6	28.8	8.5	3.2	3.9	1.2	98.22	98.34	98.58	7148.9
LTM02	GR2121876	18190224	27.6KV_3P_Y556_ASC	Overhead Line	35.4	730.0000		370.1	438.4	133.5	23.6	28.0	8.5	3.2	3.8	1.2	98.22	98.34	98.58	7184.3
LTM02	GR2121877	18190218	27.6KV_3P_Y556_ASC	Overhead Line	34.3	730.0000		370.1	438.4	133.5	23.6	28.0	8.5	3.2	3.8	1.2	98.22	98.34	98.58	7218.7
LTM02	GR2121878	10256933	27.6KV_3P_N1/0_AL	Overhead Line	4.1	530.0000		53.2	53.7	44.9	3.4	3.4	2.9	0.6	0.6	0.5	98.22	98.34	98.58	7222.7
LTM02	GR2121879	10256919	27.6KV_3P_N1/0_AL	Overhead Line	66.2	530.0000		53.2	53.7	44.9	3.4	3.4	2.9	0.6	0.6	0.5	98.22	98.34	98.58	7289.0
LTM02	GR2121882	18190221	27.6KV_3P_Y556_ASC	Overhead Line	53.7	730.0000		317.0	384.7	88.9	20.3	24.6	5.7	2.8	3.4	0.8	98.21	98.34	98.58	7272.4
LTM02	GR2121883	18190213	27.6KV_3P_Y556_ASC	Overhead Line	58.2	730.0000		317.0	384.7	88.9	20.3	24.6	5.7	2.8	3.4	0.8	98.21	98.34	98.58	7330.6
LTM02	GR2121884	18190264	27.6KV_3P_Y556_ASC	Overhead Line	49.2	730.0000		317.0	384.7	88.9	20.3	24.6	5.7	2.8	3.4	0.8	98.21	98.34	98.58	7379.7
LTM02	GR2121885	18190263	27.6KV_3P_Y556_ASC	Overhead Line	52.1	730.0000		317.0	358.0	88.9	20.3	22.8	5.7	2.8	3.1	0.8	98.21	98.33	98.58	7431.8
LTM02	GR2121886	18190262	27.6KV_3P_Y556_ASC	Overhead Line	50.3	730.0000		317.0	358.0	88.9	20.3	22.8	5.7	2.8	3.1	0.8	98.20	98.33	98.58	7482.1
LTM02	GR2121887	18190261	27.6KV_3P_Y556_ASC	Overhead Line	52.8	730.0000		317.0	358.0	88.9	20.3	22.8	5.7	2.8	3.1	0.8	98.20	98.33	98.58	7534.9
LTM02	GR2121888	18190260	27.6KV_3P_Y556_ASC	Overhead Line	47.9	730.0000		317.0	358.0	88.9	20.3	22.8	5.7	2.8	3.1	0.8	98.20	98.33	98.58	7582.8
LTM02	GR2121889	18190257	27.6KV_3P_Y556_ASC	Overhead Line	50.6	730.0000		317.0	358.0	88.9	20.3	22.8	5.7	2.8	3.1	0.8	98.19	98.33	98.58	7633.4
LTM02	GR2121890	18190256	27.6KV_3P_Y556_ASC	Overhead Line	44.0	730.0000		317.0	358.0	89.0	20.3	22.8	5.7	2.8	3.1	0.8	98.19	98.33	98.59	7677.4
LTM02	GR2121891	18190254	27.6KV_3P_Y556_ASC	Overhead Line	48.6	730.0000		317.0	358.0	89.0	20.3	22.9	5.7	2.8	3.1	0.8	98.19	98.33	98.59	7726.0
LTM02	GR2121892	18190253	27.6KV_3P_Y556_ASC	Overhead Line	49.0	730.0000		317.0	358.0	89.0	20.3	22.9	5.7	2.8	3.1	0.8	98.19	98.33	98.59	7774.9
LTM02	GR2121893	18190236	27.6KV_3P_Y556_ASC	Overhead Line	53.7	730.0000		317.0	358.1	89.0	20.3	22.9	5.7	2.8	3.1	0.8	98.18	98.33	98.59	7828.7
LTM02	GR2121894	18190285	27.6KV_3P_Y556_ASC	Overhead Line	43.6	730.0000		310.5	351.5	83.5	19.8	22.4	5.3	2.7	3.1	0.7	98.18	98.33	98.59	7872.2
LTM02	GR2121895	13066254	27.6KV_1P_N1/0_AL	Overhead Line	23.3	530.0000			5.3			0.3			0.1			98.33		7895.5
LTM02	GR2121896	13066231	27.6KV_1P_N1/0_AL	Overhead Line	41.9	530.0000			5.3			0.3			0.1			98.33		7937.5
LTM02	GR2121897	14734602	27.6KV_1P_N1/0_AL	Overhead Line	48.4	530.0000			5.3			0.3			0.1			98.33		7985.9
LTM02	GR2121900	18190288	27.6KV_3P_Y556_ASC	Overhead Line	43.2	730.0000		310.5	319.4	83.5	19.8	20.4	5.3	2.7	2.8	0.7	98.18	98.33	98.59	7915.4
LTM02	GR2121901	18190289	27.6KV_3P_Y556_ASC	Overhead Line	38.4	730.0000		310.5	319.4	83.5	19.8	20.4	5.3	2.7	2.8	0.7	98.18	98.33	98.59	7953.8
LTM02	GR2121902	18190303	27.6KV_3P_Y556_ASC	Overhead Line	42.5	730.0000		310.5	319.4	83.5	19.8	20.4	5.3	2.7	2.8	0.7	98.17	98.33	98.59	7996.2
LTM02	GR2121903	18190345	27.6KV_3P_Y556_ASC	Overhead Line	44.5	730.0000		297.3	319.4	83.5	19.0	20.4	5.3	2.6	2.8	0.7	98.17	98.33	98.59	8040.7
LTM02	GR2121904	18190344	27.6KV_3P_Y556_ASC	Overhead Line	44.4	730.0000		297.3	319.4	83.5	19.0	20.4	5.3	2.6	2.8	0.7	98.17	98.33	98.59	8085.2
LTM02	GR2121905	18190343	27.6KV_3P_Y556_ASC	Overhead Line	44.6	730.0000		297.3	319.4	83.5	19.0	20.4	5.3	2.6	2.8	0.7	98.17	98.33	98.59	8129.8
LTM02	GR2121906	18190304	27.6KV_3P_Y556_ASC	Overhead Line	56.5	730.0000		297.3	319.5	83.6	19.0	20.4	5.3	2.6	2.8	0.7	98.16	98.32	98.59	8186.3
LTM02	GR2121907	18190305	27.6KV_3P_Y556_ASC	Overhead Line	53.5	730.0000		284.1	319.5	83.6	18.2	20.4	5.3	2.5	2.8	0.7	98.16	98.32	98.59	8239.8
LTM02	GR2121908	18190306	27.6KV_3P_Y556_ASC	Overhead Line	46.6	730.0000		284.2	319.5	83.6	18.2	20.4	5.3	2.5	2.8	0.7	98.16	98.32	98.59	8286.3
LTM02	GR2121909	18190307	27.6KV_3P_Y556_ASC	Overhead Line	52.4	730.0000		284.2	319.5	83.6	18.2	20.4	5.3	2.5	2.8	0.7	98.16	98.32	98.59	8338.8
LTM02	GR2121910	18190308	27.6KV_3P_Y556_ASC	Overhead Line	52.5	730.0000		284.2	319.5	83.6	18.2	20.4	5.3	2.5	2.8	0.7	98.15	98.32	98.59	8391.3
LTM02	GR2121911	18190309	27.6KV_3P_Y556_ASC	Overhead Line	52.7	730.0000		284.2	319.5	83.6	18.2	20.4	5.3	2.5	2.8	0.7	98.15	98.32	98.59	8443.9
LTM02	GR2121912	18190310	27.6KV_3P_Y556_ASC	Overhead Line	52.3	730.0000		284.2	319.5	83.6	18.2	20.4	5.3	2.5	2.8	0.7	98.15	98.32	98.59	8496.2
LTM02	GR2121913	18190311	27.6KV_3P_Y556_ASC	Overhead Line	51.0	730.0000		284.2	319.5	83.6	18.2	20.4	5.3	2.5	2.8	0.7	98.15	98.32	98.59	8547.3
LTM02	GR2121914	18190318	27.6KV_3P_Y556_ASC	Overhead Line	52.5	730.0000		271.0	319.6	83.6	17.3	20.4	5.3	2.4	2.8	0.7	98.14	98.32	98.59	8599.7
LTM02	GR2121915	18190319	27.6KV_3P_Y556_ASC	Overhead Line	51.1	730.0000		271.0	319.6	83.6	17.3	20.4	5.3	2.4	2.8	0.7	98.14	98.32	98.59	8650.8
LTM02	GR2121916	18190320	27.6KV_3P_Y556_ASC	Overhead Line	51.0	730.0000		271.0	319.6	83.6	17.3	20.4	5.3	2.4	2.8	0.7	98.14	98.32	98.59	8701.7
LTM02	GR2121917	18190322	27.6KV_3P_Y556_ASC	Overhead Line	51.1	730.0000		271.0	319.6	83.7	17.3	20.4	5.3	2.4	2.8	0.7	98.13	98.32	98.60	8752.9
LTM02	GR2121918	18190324	27.6KV_3P_Y556_ASC	Overhead Line	51.0	730.0000		271.0	319.6	83.7	17.3	20.4	5.3	2.4	2.8	0.7	98.13	98.32	98.60	8803.9
LTM02	GR2121919	18190325	27.6KV_3P_Y556_ASC	Overhead Line	50.8	730.0000		271.0	319.6	83.7	17.3	20.4	5.3	2.4	2.8	0.7	98.13	98.32	98.60	8854.7
LTM02	GR2121920	18190326	27.6KV_3P_Y556_ASC	Overhead Line	54.0	730.0000		271.0	319.6	83.7	17.3	20.4	5.3	2.4	2.8	0.7	98.13	98.31	98.60	8908.7
LTM02	GR2121921	18190327	27.6KV_3P_Y556_ASC	Overhead Line	54.2	730.0000		271.0	319.6	83.7	17.3	20.4	5.3	2.4	2.8	0.7	98.12	98.31	98.60	8962.9
LTM02	GR2121922	18190328	27.6KV_3P_Y556_ASC	Overhead Line	52.8	730.0000		271.1	319.7	83.7	17.3	20.4	5.3	2.4	2.8	0.7	98.12	98.31	98.60	9015.7
LTM02	GR2121923	18190312	27.6KV_3P_Y556_ASC	Overhead Line	53.5	730.0000		271.1	319.7	83.7	17.3	20.4	5.3	2.4	2.8	0.7	98.12	98.31	98.60	9069.2
LTM02	GR2121924	18190283	27.6KV_3P_Y556_ASC	Overhead Line	58.6	730.0000		271.1	319.7	83.7	17.3	20.4	5.3	2.4	2.8	0.7	98.12	98.31	98.60	9127.7
LTM02	GR2121925	18190316	27.6KV_3P_Y556_ASC	Overhead Line	55.8	730.0000		271.1	319.7	83.7	17.3	20.4	5.3	2.4	2.8	0.7	98.11	98.31	98.60	9183.6
LTM02	GR2121926	18190314	27.6KV_3P_Y556_ASC	Overhead Line	52.4	730.0000		231.4	319.7	83.8	14.8	20.4	5.3	2.0	2.8	0.7	98.11	98.31	98.60	9236.0
LTM02	GR2121927	18190436	27.6KV_3P_Y556_ASC	Overhead Line	54.2	730.0000		231.4	319.7	83.8	14.8	20.4	5.3	2.0	2.8	0.7	98.11	98.31	98.60	9290.1
LTM02	GR2121928	18190437	27.6KV_3P_Y556_ASC	Overhead Line	57.7	730.0000		231.4	319.7	83.8	14.8	20.4	5.3	2.0	2.8	0.7	98.11	98.31	98.60	9347.8
LTM02	GR2121929	18190438	27.6KV_3P_Y556_ASC	Overhead Line	54.9	730.0000		231.5	319.7	83.8	14.8	20.4	5.3	2.0	2.8	0.7	98.10	98.31	98.60	9402.7
LTM02	GR2121930	18190439	27.6KV_3P_Y556_ASC	Overhead Line	55.1	730.0000		231.5	319.8	83.8	14.8	20.4	5.3	2.0	2.8	0.7	98.10	98.30	98.60	9457.8
LTM02	GR2121931	18190441	27.6KV_3P_Y556_ASC	Overhead Line	53.4	730.0000		231.5	319.8	83.8	14.8	20.4	5.3	2.0	2.8	0.7	98.10	98.30	98.60	9511.2
LTM02	GR2121932	18190442	27.6KV_3P_Y556_ASC	Overhead Line	55.5	730.0000		218.3	319.8	83.8	14.0	20.4	5.3	1.9	2.8	0.7	98.10	98.30	98.60	9566.7
LTM02	GR2121933	18190444	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		218.3	319.8	83.8	14.0	20.4	5.3	1.9	2.8	0.7	98.09	98.30	98.61	9620.8
LTM02	GR2121934	18190445	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		218.3	319.8	83.8	14.0	20.4	5.3	1.9	2.8	0.7	98.09	98.30	98.61	9674.7
LTM02	GR2121935	18190409	27.6KV_3P_Y556_ASC	Overhead Line	46.0	730.0000		218.3	319.8	83.9	14.0	20.4	5.3	1.9	2.8	0.7	98.09	98.30	98.61	9720.7
LTM02	GR2121936	13013593	27.6KV_1P_N1/0_AL	Overhead Line	27.5	530.0000			13.3			0.8			0.2			98.30		9748.2
LTM02	GR2121937	13013613	27.6KV_1P_N1/0_AL	Overhead Line	77.8	530.0000			13.3			0.8			0.2			98.30		9826.0
LTM02	GR2121938	15587972	27.6KV_1P_N1/0_AL	Overhead Line	68.0	530.0000			13.3			0.8			0.2			98.30		9893.9
LTM02	GR2121939	15587973	27.6KV_1P_N1/0_AL	Overhead Line	71.2	530.0000			13.3			0.9			0.2			98.30		9965.1
LTM02	GR2121940	15587974	27.6KV_1P_N1/0_AL	Overhead Line	70.4	530.0000			13.3			0.9			0.2			98.30		10035.5
LTM02	GR2121943	18190449	27.6KV_3P_Y556_ASC	Overhead Line	46.1	730.0000		205.1	306.6	83.9	13.1	19.6	5.3	1.8	2.7	0.7	98.09	98.30	98.61	9766.8
LTM02	GR2121944	18190451	27.6KV_3P_Y556_ASC	Overhead Line	48.5	730.0000		205.1	306.6	83.9	13.1	19.6	5.3	1.8	2.7	0.7	98.09	98.30	98.61	9815.3
LTM02	GR2121945	18190452	27.6KV_3P_Y556_ASC	Overhead Line	43.4	730.0000		192.0	306.6	83.9	12.3	19.6	5.3	1.7	2.7	0.7	98.09	98.30	98.61	9858.7
LTM02	GR2121946	18190453	27.6KV_3P_Y556_ASC	Overhead Line	59.1	730.0000		192.0	306.6	83.9	12.3	19.6	5.3	1.7	2.7	0.7	98.08	98.29	98.61	9917.7
LTM02	GR2121947	18190454	27.6KV_3P_Y556_ASC	Overhead Line	42.2	730.0000		192.0	306.6	83.9	12.3	19.6	5.3	1.7	2.7	0.7	98.08	98.29	98.61	9959.9
LTM02	GR2121948	18190455	27.6KV_3P_Y556_ASC	Overhead Line	41.8	730.0000		178.8	306.6	83.9	11.4	19.6	5.3	1.6	2.7	0.7	98.08	98.29	98.61	10001.8
LTM02	GR2121949	18190457	27.6KV_3P_Y556_ASC	Overhead Line	56.9	730.0000		178.8	306.6	83.9	11.4	19.6	5.3	1.6	2.7	0.7	98.08	98.29	98.61	10058.7

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2121950	18190458	27.6KV_3P_Y556_ASC	Overhead Line	56.1	730.0000		178.8	306.6	83.9	11.4	19.6	5.3	1.6	2.7	0.7	98.08	98.29	98.61	10114.7
LTM02	GR2121951	18190459	27.6KV_3P_Y556_ASC	Overhead Line	57.5	730.0000		178.8	306.6	83.9	11.4	19.6	5.3	1.6	2.7	0.7	98.07	98.29	98.61	10172.2
LTM02	GR2121952	18190460	27.6KV_3P_Y556_ASC	Overhead Line	38.6	730.0000		165.6	306.6	84.0	10.6	19.6	5.3	1.5	2.7	0.7	98.07	98.29	98.61	10210.8
LTM02	GR2121953	18190404	27.6KV_3P_Y556_ASC	Overhead Line	39.6	730.0000		165.6	306.7	84.0	10.6	19.6	5.3	1.5	2.7	0.7	98.07	98.29	98.61	10250.4
LTM02	GR2121954	13013482	27.6KV_1P_Y1/0_AL	Overhead Line	4.5	230.0000		13.2			0.8			0.4			98.07			10254.9
LTM02	GR2121955	11617035	27.6KV_1P_Y1/0_AL	Overhead Line	72.3	230.0000		13.2			0.8			0.4			98.07			10327.1
LTM02	GR2121956	11617032	27.6KV_1P_Y1/0_AL	Overhead Line	49.0	230.0000		13.2			0.8			0.4			98.07			10376.1
LTM02	GR2121959	18190463	27.6KV_3P_Y556_ASC	Overhead Line	44.4	730.0000		152.5	306.7	84.0	9.8	19.6	5.3	1.3	2.7	0.7	98.07	98.29	98.62	10294.8
LTM02	GR2121960	18190464	27.6KV_3P_Y556_ASC	Overhead Line	42.5	730.0000		152.5	306.7	84.0	9.8	19.6	5.3	1.3	2.7	0.7	98.07	98.28	98.62	10337.3
LTM02	GR2121961	18190467	27.6KV_3P_Y556_ASC	Overhead Line	42.7	730.0000		139.3	306.7	84.0	8.9	19.6	5.3	1.2	2.7	0.7	98.07	98.28	98.62	10379.9
LTM02	GR2121962	18190468	27.6KV_3P_Y556_ASC	Overhead Line	48.2	730.0000		139.3	306.7	84.0	8.9	19.6	5.3	1.2	2.7	0.7	98.07	98.28	98.62	10428.1
LTM02	GR2121963	18190469	27.6KV_3P_Y556_ASC	Overhead Line	47.9	730.0000		139.3	306.7	84.0	8.9	19.6	5.3	1.2	2.7	0.7	98.06	98.28	98.62	10476.0
LTM02	GR2121964	18190470	27.6KV_3P_Y556_ASC	Overhead Line	54.5	730.0000		139.3	306.7	84.0	8.9	19.6	5.3	1.2	2.7	0.7	98.06	98.28	98.62	10530.4
LTM02	GR2121965	18190471	27.6KV_3P_Y556_ASC	Overhead Line	39.4	730.0000		139.4	306.7	84.0	8.9	19.6	5.3	1.2	2.7	0.7	98.06	98.28	98.62	10569.9
LTM02	GR2121966	18190473	27.6KV_3P_Y556_ASC	Overhead Line	43.3	730.0000		139.4	306.7	84.0	8.9	19.6	5.3	1.2	2.7	0.7	98.06	98.28	98.62	10613.2
LTM02	GR2121967	18190474	27.6KV_3P_Y556_ASC	Overhead Line	52.7	730.0000		126.2	306.7	84.1	8.1	19.6	5.3	1.1	2.7	0.7	98.06	98.27	98.62	10665.9
LTM02	GR2121968	17992395	27.6KV_3P_Y556_ASC	Overhead Line	52.5	730.0000		126.2	306.7	84.1	8.1	19.6	5.3	1.1	2.7	0.7	98.06	98.27	98.62	10718.3
LTM02	GR2121969	18190475	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		126.2	306.8	84.1	8.1	19.6	5.3	1.1	2.7	0.7	98.06	98.27	98.62	10772.5
LTM02	GR2121970	18190476	27.6KV_3P_Y556_ASC	Overhead Line	54.3	730.0000		126.2	306.8	84.1	8.1	19.6	5.4	1.1	2.7	0.7	98.05	98.27	98.63	10826.8
LTM02	GR2121971	18190478	27.6KV_3P_Y556_ASC	Overhead Line	57.0	730.0000		126.2	306.8	84.1	8.1	19.6	5.4	1.1	2.7	0.7	98.05	98.27	98.63	10883.8
LTM02	GR2121972	18190479	27.6KV_3P_Y556_ASC	Overhead Line	56.7	730.0000		126.2	306.8	84.1	8.1	19.6	5.4	1.1	2.7	0.7	98.05	98.27	98.63	10940.4
LTM02	GR2121973	18190481	27.6KV_3P_Y556_ASC	Overhead Line	38.9	730.0000		126.3	306.8	84.1	8.1	19.6	5.4	1.1	2.7	0.7	98.05	98.26	98.63	10979.3
LTM02	GR2121974	17992397	27.6KV_3P_Y556_ASC	Overhead Line	38.0	730.0000		113.1	306.8	84.1	7.2	19.6	5.4	1.0	2.7	0.7	98.05	98.26	98.63	11017.3
LTM02	GR2121975	13014472	27.6KV_3P_Y556_AL	Overhead Line	36.0	730.0000		113.1	306.8	84.2	7.2	19.6	5.4	1.0	2.7	0.7	98.05	98.26	98.63	11053.3
LTM02	GR2121976	13013374	27.6KV_3P_N556_AL	Overhead Line	3.3	730.0000		2.4	2.4	2.4	0.2	0.2	0.2	0.0	0.0	0.0	98.05	98.26	98.63	11056.6
LTM02	GR2121977	13013377	27.6KV_3P_N556_AL	Overhead Line	24.7	730.0000		2.4	2.4	2.4	0.2	0.2	0.2	0.0	0.0	0.0	98.05	98.26	98.63	11081.3
LTM02	GR2121978	19081984	27.6KV_3P_N556_AL	Overhead Line	8.0	730.0000		2.3	2.4	2.4	0.2	0.2	0.2	0.0	0.0	0.0	98.05	98.26	98.63	11089.3
LTM02	GR2121979	13013380	27.6KV_3P_N556_AL	Overhead Line	16.7	730.0000		2.3	2.3	2.4	0.1	0.1	0.2	0.0	0.0	0.0	98.05	98.26	98.63	11106.0
LTM02	GR2121980	19081673	27.6KV_3P_N556_AL	Overhead Line	7.0	730.0000		0.8	0.8	0.9	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11113.0
LTM02	GR2121981	19081674	27.6KV_3P_N556_AL	Overhead Line	7.0	730.0000		0.8	0.8	0.8	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11120.0
LTM02	GR2121982	19081680	27.6KV_3P_N556_AL	Overhead Line	44.6	730.0000		2.3	2.3	2.3	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11164.6
LTM02	GR2121983	13084825	27.6KV_3P_N556_AL	Overhead Line	67.1	730.0000		2.3	2.3	2.3	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11231.7
LTM02	GR2121984	13085168	27.6KV_3P_N556_AL	Overhead Line	65.2	730.0000		2.2	2.2	2.2	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11296.9
LTM02	GR2121985	13084826	27.6KV_3P_N556_AL	Overhead Line	63.0	730.0000		2.1	2.1	2.1	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11359.8
LTM02	GR2121986	13084827	27.6KV_3P_N556_AL	Overhead Line	60.3	730.0000		2.0	2.1	2.1	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11420.1
LTM02	GR2121987	13084828	27.6KV_3P_N556_AL	Overhead Line	62.8	730.0000		2.0	2.0	2.0	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11482.9
LTM02	GR2121988	13084829	27.6KV_3P_N556_AL	Overhead Line	56.3	730.0000		1.9	1.9	1.9	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11539.2
LTM02	GR2121989	13084830	27.6KV_3P_N556_AL	Overhead Line	58.8	730.0000		1.9	1.9	1.9	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11597.9
LTM02	GR2121990	13084831	27.6KV_3P_N556_AL	Overhead Line	53.6	730.0000		1.8	1.8	1.8	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11651.5
LTM02	GR2121991	13084832	27.6KV_3P_N556_AL	Overhead Line	52.4	730.0000		1.7	1.7	1.8	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11703.9
LTM02	GR2121992	13084833	27.6KV_3P_N556_AL	Overhead Line	41.0	730.0000		1.7	1.7	1.7	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11744.9
LTM02	GR2121993	13084834	27.6KV_3P_N556_AL	Overhead Line	39.0	730.0000		1.6	1.6	1.7	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11783.9
LTM02	GR2121994	13084835	27.6KV_3P_N556_AL	Overhead Line	81.9	730.0000		1.6	1.6	1.6	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11865.8
LTM02	GR2121995	13084837	27.6KV_3P_N556_AL	Overhead Line	64.7	730.0000		1.5	1.5	1.5	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11930.5
LTM02	GR2121996	13084841	27.6KV_3P_N556_AL	Overhead Line	63.1	730.0000		1.5	1.5	1.5	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11993.6
LTM02	GR2121997	13084842	27.6KV_3P_N556_AL	Overhead Line	57.1	730.0000		1.4	1.4	1.4	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	12050.6
LTM02	GR2121998	13084844	27.6KV_3P_N556_AL	Overhead Line	55.9	730.0000		1.3	1.3	1.3	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	12106.5
LTM02	GR2121999	13084845	27.6KV_3P_N556_AL	Overhead Line	55.2	730.0000		1.3	1.3	1.3	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	12161.7
LTM02	GR2122000	13084847	27.6KV_3P_N556_AL	Overhead Line	59.9	730.0000		1.2	1.2	1.2	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	12221.6
LTM02	GR2122001	13084849	27.6KV_3P_N556_AL	Overhead Line	62.7	730.0000		1.1	1.1	1.2	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	12284.3
LTM02	GR2122002	13084850	27.6KV_3P_N556_AL	Overhead Line	74.7	730.0000		1.1	1.1	1.1	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	12359.0
LTM02	GR2122003	13084851	27.6KV_3P_N556_AL	Overhead Line	76.7	730.0000		1.0	1.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	12435.7
LTM02	GR2122004	13084852	27.6KV_3P_N556_AL	Overhead Line	73.9	730.0000		0.9	0.9	0.9	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	12509.6
LTM02	GR2122005	13084853	27.6KV_3P_N556_AL	Overhead Line	76.2	730.0000		0.8	0.8	0.9	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	12585.8
LTM02	GR2122006	13084854	27.6KV_3P_N556_AL	Overhead Line	73.9	730.0000		0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	12659.6
LTM02	GR2122007	13084855	27.6KV_3P_N556_AL	Overhead Line	70.0	730.0000		0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	12729.6
LTM02	GR2122008	13084856	27.6KV_3P_N556_AL	Overhead Line	76.0	730.0000		0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	12805.6
LTM02	GR2122009	13084892	27.6KV_3P_N556_AL	Overhead Line	37.7	730.0000		0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	12843.3
LTM02	GR2122010	13084857	27.6KV_3P_N556_AL	Overhead Line	42.1	730.0000		0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	12885.4
LTM02	GR2122011	13084858	27.6KV_3P_N556_AL	Overhead Line	47.2	730.0000		0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	12932.6
LTM02	GR2122012	13084859	27.6KV_3P_N556_AL	Overhead Line	69.8	730.0000		0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	13002.4
LTM02	GR2122013	13084860	27.6KV_3P_N556_AL	Overhead Line	55.9	730.0000		0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	13058.2
LTM02	GR2122014	13084861	27.6KV_3P_N556_AL	Overhead Line	60.7	730.0000		0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	13118.9
LTM02	GR2122015	13084862	27.6KV_3P_N556_AL	Overhead Line	61.4	730.0000		0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	13180.3
LTM02	GR2122016	13084863	27.6KV_3P_N556_AL	Overhead Line	60.6	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	13240.9
LTM02	GR2122017	13084864	27.6KV_3P_N556_AL	Overhead Line	73.9	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	98.05	98.26	98.63	13314.8
LTM02	GR2122024	13082465	BUS27.6KV_3P_0A__AIR	Overhead Line	0.1	0.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	98.05	98.26	98.63	13315.3
LTM02	GR2122025	19081679	27.6KV_3P_N556_AL	Overhead Line	4.0	730.0000		1.5	1.5	1.5	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11110.0
LTM02	GR2122026	13084823	27.6KV_3P_N556_AL	Overhead Line	4.0	730.0000		1.5	1.5	1.5	0.1	0.1	0.1	0.0	0.0	0.0	98.05	98.26	98.63	11114.0
LTM02	GR2122027	18126590	27.6KV_3P_Y556_ASC	Overhead Line	24.1	730.0000		113.7	307.5	84.7	7.3	19.6	5.4	1.0	2.7	0.7	98.05	98.26	98.63	11077.4
LTM02	GR2122028	18126589	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		113.7	307.5	84.7	7.3	19.6	5.4	1.0	2.7	0.7	98.05	98.26	98.63	11131.5
LTM02	GR2122029	18126588	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		113.7	307.5	84.7	7.3	19.6	5.4	1.0	2.7	0.7	98.04	98.26	98.63	11185.6
LTM02	GR2122030	18126587	27.6KV_3P_Y556_ASC	Overhead Line	52.2	730.0000		113.7	307.5	84.7	7.3	19.6	5.4	1.0	2.7	0.7	98.04	98.26	98.63	11237.7
LTM02	GR2122031	18126586	27.6KV_3P_Y556_ASC	Overhead Line	47.9	730.0000		113.7	307.5	84.7	7.3	19.6	5.4	1.0	2.7	0.7	98.04	98.25	98.63	11285.6
LTM02	GR2122032	18126585	27.6KV_3P_Y556_ASC	Overhead Line	39.0	730.0000		113.7	307.5	84.7	7.3	19.6	5.4	1.0	2.7	0.7	98.04	98.25	98.64	11324.6
LTM02	GR2122033	18126443	27.6KV_3P_Y556_ASC	Overhead Line	45.3	730.0000		113.7	307.5	84.7	7.3	19.6	5.4	1.0	2.7	0.7	98.04	98.25	98.64	11370.0

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2122034	18126584	27.6KV_3P_Y556_ASC	Overhead Line	44.6	730.0000		113.7	294.2	84.8	7.3	18.8	5.4	1.0	2.6	0.7	98.04	98.25	98.64	11414.5
LTM02	GR2122035	18126583	27.6KV_3P_Y556_ASC	Overhead Line	49.9	730.0000		113.8	294.2	84.8	7.3	18.8	5.4	1.0	2.6	0.7	98.04	98.25	98.64	11464.4
LTM02	GR2122036	18126582	27.6KV_3P_Y556_ASC	Overhead Line	46.1	730.0000		113.8	294.2	84.8	7.3	18.8	5.4	1.0	2.6	0.7	98.04	98.25	98.64	11510.5
LTM02	GR2122037	18126446	27.6KV_3P_Y556_ASC	Overhead Line	40.1	730.0000		113.8	294.2	84.8	7.3	18.8	5.4	1.0	2.6	0.7	98.03	98.24	98.64	11550.5
LTM02	GR2122038	18126581	27.6KV_3P_Y556_ASC	Overhead Line	49.6	730.0000		113.8	280.9	84.8	7.3	17.9	5.4	1.0	2.5	0.7	98.03	98.24	98.64	11600.2
LTM02	GR2122039	18126580	27.6KV_3P_Y556_ASC	Overhead Line	45.9	730.0000		113.8	280.9	84.8	7.3	17.9	5.4	1.0	2.5	0.7	98.03	98.24	98.64	11646.0
LTM02	GR2122040	18126579	27.6KV_3P_Y556_ASC	Overhead Line	40.8	730.0000		113.8	280.9	84.8	7.3	17.9	5.4	1.0	2.5	0.7	98.03	98.24	98.64	11686.8
LTM02	GR2122041	18126578	27.6KV_3P_Y556_ASC	Overhead Line	42.0	730.0000		113.8	280.9	84.8	7.3	17.9	5.4	1.0	2.5	0.7	98.03	98.24	98.64	11728.9
LTM02	GR2122042	18126191	27.6KV_3P_Y556_ASC	Overhead Line	48.7	730.0000		113.8	280.9	84.8	7.3	17.9	5.4	1.0	2.5	0.7	98.03	98.24	98.64	11777.5
LTM02	GR2122043	18126577	27.6KV_3P_Y556_ASC	Overhead Line	38.5	730.0000		113.8	267.6	84.9	7.3	17.1	5.4	1.0	2.3	0.7	98.03	98.24	98.64	11816.0
LTM02	GR2122044	18126576	27.6KV_3P_Y556_ASC	Overhead Line	47.1	730.0000		113.8	267.6	84.9	7.3	17.1	5.4	1.0	2.3	0.7	98.03	98.24	98.64	11863.1
LTM02	GR2122045	18126449	27.6KV_3P_Y556_ASC	Overhead Line	50.5	730.0000		113.9	267.6	84.9	7.3	17.1	5.4	1.0	2.3	0.7	98.03	98.23	98.65	11913.6
LTM02	GR2122046	18126575	27.6KV_3P_Y556_ASC	Overhead Line	34.4	730.0000		113.9	240.9	84.9	7.3	15.4	5.4	1.0	2.1	0.7	98.02	98.23	98.65	11947.9
LTM02	GR2122047	18126574	27.6KV_3P_Y556_ASC	Overhead Line	35.6	730.0000		113.9	240.9	84.9	7.3	15.4	5.4	1.0	2.1	0.7	98.02	98.23	98.65	11983.5
LTM02	GR2122048	18126573	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		113.9	240.9	84.9	7.3	15.4	5.4	1.0	2.1	0.7	98.02	98.23	98.65	12037.4
LTM02	GR2122049	18126572	27.6KV_3P_Y556_ASC	Overhead Line	46.7	730.0000		113.9	240.9	84.9	7.3	15.4	5.4	1.0	2.1	0.7	98.02	98.23	98.65	12084.1
LTM02	GR2122050	18126450	27.6KV_3P_Y556_ASC	Overhead Line	48.7	730.0000		113.9	240.9	84.9	7.3	15.4	5.4	1.0	2.1	0.7	98.02	98.23	98.65	12132.8
LTM02	GR2122051	18126571	27.6KV_3P_Y556_ASC	Overhead Line	47.2	730.0000		113.9	214.1	85.0	7.3	13.7	5.4	1.0	1.9	0.7	98.02	98.23	98.65	12180.0
LTM02	GR2122052	18126286	27.6KV_3P_Y556_ASC	Overhead Line	41.3	730.0000		113.9	214.1	85.0	7.3	13.7	5.4	1.0	1.9	0.7	98.02	98.23	98.65	12221.3
LTM02	GR2122053	18126570	27.6KV_3P_Y556_ASC	Overhead Line	47.6	730.0000		113.9	200.8	85.0	7.3	12.8	5.4	1.0	1.8	0.7	98.02	98.23	98.65	12268.9
LTM02	GR2122054	18126569	27.6KV_3P_Y556_ASC	Overhead Line	51.7	730.0000		114.0	200.8	85.0	7.3	12.8	5.4	1.0	1.8	0.7	98.02	98.22	98.65	12320.6
LTM02	GR2122055	18000158	27.6KV_3P_Y556_ASC	Overhead Line	32.4	730.0000		114.0	200.9	85.0	7.3	12.8	5.4	1.0	1.8	0.7	98.02	98.22	98.65	12353.0
LTM02	GR2122056	18126456	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		114.0	200.9	85.0	7.3	12.8	5.4	1.0	1.8	0.7	98.02	98.22	98.65	12407.0
LTM02	GR2122057	18126289	27.6KV_3P_Y556_ASC	Overhead Line	43.2	730.0000		114.0	174.1	85.0	7.3	11.1	5.4	1.0	1.5	0.7	98.01	98.22	98.65	12450.2
LTM02	GR2122058	18126568	27.6KV_3P_Y556_ASC	Overhead Line	50.8	730.0000		114.0	160.8	85.0	7.3	10.3	5.4	1.0	1.4	0.7	98.01	98.22	98.65	12501.0
LTM02	GR2122059	18126567	27.6KV_3P_Y556_ASC	Overhead Line	57.0	730.0000		114.0	160.8	85.1	7.3	10.3	5.4	1.0	1.4	0.7	98.01	98.22	98.65	12558.0
LTM02	GR2122060	18126566	27.6KV_3P_Y556_ASC	Overhead Line	52.0	730.0000		114.0	160.8	85.1	7.3	10.3	5.4	1.0	1.4	0.7	98.01	98.22	98.65	12610.0
LTM02	GR2122061	18126465	27.6KV_3P_Y556_ASC	Overhead Line	52.6	730.0000		114.0	160.8	85.1	7.3	10.3	5.4	1.0	1.4	0.7	98.01	98.22	98.65	12662.6
LTM02	GR2122062	18126565	27.6KV_3P_Y556_ASC	Overhead Line	59.5	730.0000		114.1	134.1	85.1	7.3	8.6	5.4	1.0	1.2	0.7	98.01	98.22	98.65	12722.1
LTM02	GR2122063	18126564	27.6KV_3P_Y556_ASC	Overhead Line	47.9	730.0000		114.1	134.1	85.1	7.3	8.6	5.4	1.0	1.2	0.7	98.01	98.22	98.65	12770.1
LTM02	GR2122064	18126563	27.6KV_3P_Y556_ASC	Overhead Line	54.0	730.0000		114.1	134.1	85.1	7.3	8.6	5.4	1.0	1.2	0.7	98.01	98.22	98.65	12824.1
LTM02	GR2122065	18126562	27.6KV_3P_Y556_ASC	Overhead Line	41.3	730.0000		114.1	134.1	85.1	7.3	8.6	5.4	1.0	1.2	0.7	98.01	98.22	98.65	12865.4
LTM02	GR2122066	18126561	27.6KV_3P_Y556_ASC	Overhead Line	43.5	730.0000		114.1	134.1	85.1	7.3	8.6	5.4	1.0	1.2	0.7	98.01	98.22	98.65	12908.9
LTM02	GR2122067	18126560	27.6KV_3P_Y556_ASC	Overhead Line	41.6	730.0000		114.1	134.1	85.2	7.3	8.6	5.4	1.0	1.2	0.7	98.01	98.22	98.65	12950.5
LTM02	GR2122068	18126559	27.6KV_3P_Y556_ASC	Overhead Line	45.0	730.0000		114.1	134.1	85.2	7.3	8.6	5.4	1.0	1.2	0.7	98.01	98.22	98.65	12995.5
LTM02	GR2122069	18126558	27.6KV_3P_Y556_ASC	Overhead Line	50.0	730.0000		114.1	134.1	85.2	7.3	8.6	5.4	1.0	1.2	0.7	98.01	98.22	98.65	13045.5
LTM02	GR2122070	18000160	27.6KV_3P_Y556_ASC	Overhead Line	43.9	730.0000		114.2	134.2	85.2	7.3	8.6	5.4	1.0	1.2	0.7	98.00	98.22	98.65	13089.4
LTM02	GR2122071	18000159	27.6KV_3P_Y556_ASC	Overhead Line	55.7	730.0000		114.2	134.2	85.2	7.3	8.6	5.4	1.0	1.2	0.7	98.00	98.21	98.65	13145.1
LTM02	GR2122072	18126323	27.6KV_3P_Y556_ASC	Overhead Line	49.8	730.0000		114.2	134.2	74.1	7.3	8.6	4.7	1.0	1.2	0.6	98.00	98.21	98.65	13194.9
LTM02	GR2122073	18126557	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		114.2	134.2	74.1	7.3	8.6	4.7	1.0	1.2	0.6	98.00	98.21	98.65	13248.8
LTM02	GR2122074	18126556	27.6KV_3P_Y556_ASC	Overhead Line	50.9	730.0000		114.2	134.2	74.1	7.3	8.6	4.7	1.0	1.2	0.6	98.00	98.21	98.65	13299.7
LTM02	GR2122075	17992790	27.6KV_1P_Y2_ACSR	Overhead Line	21.7	530.0000			13.3			0.9			0.2			98.21		13321.5
LTM02	GR2122076	15587343	27.6KV_1P_Y1/0_AL	Overhead Line	69.0	230.0000			13.3			0.9			0.4			98.21		13390.4
LTM02	GR2122077	15587344	27.6KV_1P_Y1/0_AL	Overhead Line	71.8	230.0000			13.3			0.9			0.4			98.21		13462.2
LTM02	GR2122078	15587345	27.6KV_1P_Y1/0_AL	Overhead Line	50.8	230.0000			13.3			0.9			0.4			98.21		13513.0
LTM02	GR2122081	17992791	27.6KV_3P_Y556_ASC	Overhead Line	53.0	730.0000		114.2	120.9	74.1	7.3	7.7	4.7	1.0	1.1	0.6	98.00	98.21	98.65	13352.7
LTM02	GR2122082	18126555	27.6KV_3P_Y556_ASC	Overhead Line	54.3	730.0000		114.2	120.9	74.2	7.3	7.7	4.7	1.0	1.1	0.6	98.00	98.21	98.65	13407.0
LTM02	GR2122083	18126554	27.6KV_3P_Y556_ASC	Overhead Line	41.3	730.0000		114.2	121.0	74.2	7.3	7.7	4.7	1.0	1.1	0.6	98.00	98.21	98.65	13448.3
LTM02	GR2122084	18126553	27.6KV_3P_Y556_ASC	Overhead Line	50.0	730.0000		114.3	121.0	74.2	7.3	7.7	4.7	1.0	1.1	0.6	98.00	98.21	98.65	13498.3
LTM02	GR2122085	18126552	27.6KV_3P_Y556_ASC	Overhead Line	49.7	730.0000		114.3	121.0	74.2	7.3	7.7	4.7	1.0	1.1	0.6	98.00	98.21	98.65	13548.0
LTM02	GR2122086	18126551	27.6KV_3P_Y556_ASC	Overhead Line	52.4	730.0000		114.3	121.0	74.2	7.3	7.7	4.7	1.0	1.1	0.6	98.00	98.21	98.65	13600.4
LTM02	GR2122087	18126550	27.6KV_3P_Y556_ASC	Overhead Line	54.3	730.0000		114.3	121.0	74.2	7.3	7.7	4.7	1.0	1.1	0.6	98.00	98.21	98.65	13654.6
LTM02	GR2122088	18126549	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		114.3	121.0	74.2	7.3	7.7	4.7	1.0	1.1	0.6	98.00	98.21	98.65	13708.5
LTM02	GR2122089	18126548	27.6KV_3P_Y556_ASC	Overhead Line	54.3	730.0000		114.3	121.0	74.3	7.3	7.7	4.7	1.0	1.1	0.6	97.99	98.21	98.65	13762.8
LTM02	GR2122090	18126547	27.6KV_3P_Y556_ASC	Overhead Line	53.8	730.0000		114.3	121.1	74.3	7.3	7.7	4.7	1.0	1.1	0.6	97.99	98.21	98.65	13816.5
LTM02	GR2122091	18126546	27.6KV_3P_Y556_ASC	Overhead Line	50.0	730.0000		114.4	121.1	74.3	7.3	7.7	4.7	1.0	1.1	0.6	97.99	98.21	98.65	13866.6
LTM02	GR2122092	18126545	27.6KV_3P_Y556_ASC	Overhead Line	54.0	730.0000		114.4	121.1	74.3	7.3	7.7	4.7	1.0	1.1	0.6	97.99	98.21	98.65	13920.5
LTM02	GR2122093	18126544	27.6KV_3P_Y556_ASC	Overhead Line	50.0	730.0000		114.4	121.1	74.3	7.3	7.7	4.7	1.0	1.1	0.6	97.99	98.21	98.65	13970.5
LTM02	GR2122094	18126543	27.6KV_3P_Y556_ASC	Overhead Line	54.0	730.0000		114.4	121.1	74.3	7.3	7.7	4.7	1.0	1.1	0.6	97.99	98.21	98.65	14024.5
LTM02	GR2122095	18126542	27.6KV_3P_Y556_ASC	Overhead Line	51.9	730.0000		114.4	121.1	74.3	7.3	7.7	4.7	1.0	1.1	0.6	97.99	98.21	98.65	14076.4
LTM02	GR2122096	18126541	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		114.4	121.2	74.4	7.3	7.7	4.7	1.0	1.1	0.6	97.99	98.21	98.65	14130.3
LTM02	GR2122097	18126540	27.6KV_3P_Y556_ASC	Overhead Line	50.8	730.0000		114.4	121.2	74.4	7.3	7.7	4.7	1.0	1.1	0.6	97.99	98.21	98.65	14181.0
LTM02	GR2122098	18126539	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		114.5	121.2	74.4	7.3	7.7	4.7	1.0	1.1	0.6	97.99	98.21	98.65	14235.1
LTM02	GR2122099	18126538	27.6KV_3P_Y556_ASC	Overhead Line	50.1	730.0000		114.5	121.2	74.4	7.3	7.7	4.7	1.0	1.1	0.6	97.99	98.21	98.65	14285.2
LTM02	GR2122100	18126537	27.6KV_3P_Y556_ASC	Overhead Line	49.5	730.0000		114.5	121.2	74.4	7.3	7.7	4.7	1.0	1.1	0.6	97.99	98.21	98.65	14334.8
LTM02	GR2122101	18126536	27.6KV_3P_Y556_ASC	Overhead Line	45.0	730.0000		114.5	121.2	74.4	7.3	7.7	4.7	1.0	1.1	0.6	97.99	98.20	98.65	14379.8
LTM02	GR2122102	18126535	27.6KV_3P_Y556_ASC	Overhead Line	40.1	730.0000		114.5	121.2	74.4	7.3	7.7	4.7	1.0	1.1	0.6	97.98	98.20	98.64	14419.9
LTM02	GR2122103	18126314	27.6KV_3P_Y556_ASC	Overhead Line	52.5	730.0000		114.5	107.9	74.4	7.3	6.9	4.7	1.0	0.9	0.6	97.98	98.20	98.64	14472.4
LTM02	GR2122104	18126534	27.6KV_3P_Y556_ASC	Overhead Line	53.9	730.0000		114.5	107.9	74.5	7.3	6.9	4.7	1.0	0.9	0.6	97.98	98.20	98.64	14526.3
LTM02	GR2122105	18126533	27.6KV_3P_Y556_ASC	Overhead Line	54.5	730.0000		114.5	107.9	74.5	7.3	6.9	4.7	1.0	0.9	0.6	97.98	98.20	98.64	14580.7
LTM02	GR2122106	18126532	27.6KV_3P_Y556_ASC	Overhead Line	54.9	730.0000		114.6	108.0	74.5	7.3	6.9	4.7	1.0	0.9	0.6	97.98	98.20	98.64	14635.7
LTM02	GR2122107	18126531	27.6KV_3P_Y556_ASC	Overhead Line	55.3	730.0000		114.6	108.0	74.5	7.3	6.9	4.7	1.0	0.9	0.6	97.98	98.20	98.64	14690.9
LTM02	GR2122108	18126302	27.6KV_3P_Y556_ASC	Overhead Line	48.6	730.0000		114.6	102.6	74.5	7.3	6.6	4.7	1.0	0.9	0.6	97.98	98.20	98.64	14739.5
LTM02	GR2122109	18126530	27.6KV_3P_Y556_ASC	Overhead Line	54.9	730.0000		114.6	102.6	74.5	7.3	6.6	4.7	1.0	0.9	0.6	97.98	98.20	98.64	14794.4
LTM02	GR2122110	18126529	27.6KV_3P_Y556_ASC	Overhead Line	49.9	730.0000		114.6	102.7	74.6	7.3	6.6	4.7	1.0	0.9	0.6	97.98	98.20	98.64	14844.3
LTM02	GR2122111	18126528	27.6KV_3P_Y556_ASC	Overhead Line	54.1	730.0000		114.6	102.7	74.6	7.3	6.6	4.7	1.0	0.9	0.6	97.98	98.20	98.64	14898.4

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2122112	18126527	27.6KV_3P_Y556_ASC	Overhead Line	49.9	730.0000		114.7	102.7	74.6	7.3	6.6	4.7	1.0	0.9	0.6	97.98	98.20	98.64	14948.3
LTM02	GR2122113	18126526	27.6KV_3P_Y556_ASC	Overhead Line	51.9	730.0000		114.7	102.7	74.6	7.3	6.6	4.7	1.0	0.9	0.7	97.98	98.20	98.64	15000.3
LTM02	GR2122114	18097317	27.6KV_3P_Y556_ASC	Overhead Line	3.3	730.0000		88.5	89.5	74.7	5.7	5.7	4.8	0.8	0.8	0.7	97.98	98.20	98.64	15003.6
LTM02	GR2122119	18105046	27.6KV_3P_Y556_ASC	Overhead Line	56.1	730.0000		26.2	13.2	0.4	1.7	0.8	0.0	0.2	0.1	0.0	97.98	98.20	98.64	15056.3
LTM02	GR2122120	18097319	27.6KV_3P_Y556_ASC	Overhead Line	54.2	730.0000		26.2	13.3	0.3	1.7	0.8	0.0	0.2	0.1	0.0	97.98	98.20	98.64	15110.5
LTM02	GR2122121	18126523	27.6KV_3P_Y556_ASC	Overhead Line	40.2	730.0000		26.2	13.3	0.3	1.7	0.8	0.0	0.2	0.1	0.0	97.98	98.20	98.64	15150.7
LTM02	GR2122122	15446140	27.6KV_3P_Y556_ASC	Overhead Line	53.0	730.0000		0.2	13.3	0.2	0.0	0.9	0.0	0.0	0.1	0.0	97.98	98.20	98.64	15203.6
LTM02	GR2122123	17990532	27.6KV_3P_Y556_ASC	Overhead Line	47.7	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.98	98.20	98.64	15251.3
LTM02	GR2122124	17990530	27.6KV_3P_Y556_ASC	Overhead Line	36.5	730.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	97.98	98.20	98.64	15287.8
LTM02	GR2122125	18000071	27.6KV_3P_Y556_ASC	Overhead Line	5.3	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.98	98.20	98.64	15293.0
LTM02	GR2122126	18000090	27.6KV_3P_Y556_ASC	Overhead Line	11.2	730.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.98	98.20	98.64	15298.9
LTM02	GR2122129	18039238	27.6KV_3P_Y556_ASC	Overhead Line	46.5	730.0000		26.3	0.0	0.0	1.7	0.0	0.0	0.2	0.0	0.0	97.98	98.20	98.64	15197.2
LTM02	GR2122130	17993068	DEFAULT	Overhead Line	4.2	1000.0000		26.3			1.7			0.2			97.98			15201.4
LTM02	GR2122131	15446126	DEFAULT	Overhead Line	3.6	1000.0000		26.3			1.7			0.2			97.98			15205.1
LTM02	GR2122132	15588138	27.6KV_1P_N1/0_AL	Overhead Line	71.1	530.0000		26.3			1.7			0.3			97.98			15276.2
LTM02	GR2122133	15588139	27.6KV_1P_N1/0_AL	Overhead Line	63.0	530.0000		26.3			1.7			0.3			97.97			15339.2
LTM02	GR2122134	15588179	27.6KV_1P_N1/0_AL	Overhead Line	64.8	530.0000		13.1			0.8			0.2			97.97			15403.9
LTM02	GR2122135	15588181	27.6KV_1P_N1/0_AL	Overhead Line	72.8	530.0000		13.1			0.8			0.2			97.97			15476.7
LTM02	GR2122136	15588182	27.6KV_1P_N1/0_AL	Overhead Line	73.9	530.0000		13.1			0.8			0.2			97.97			15550.6
LTM02	GR2122137	15588183	27.6KV_1P_N1/0_AL	Overhead Line	73.8	530.0000		13.2			0.8			0.2			97.97			15624.4
LTM02	GR2122138	15588184	27.6KV_1P_N1/0_AL	Overhead Line	75.0	530.0000		13.2			0.8			0.2			97.97			15699.4
LTM02	GR2122139	15588185	27.6KV_1P_N1/0_AL	Overhead Line	71.7	530.0000		13.2			0.8			0.2			97.97			15771.1
LTM02	GR2122150	4032763	27.6KV_1P_Y1/0_AL	Overhead Line	21.3	230.0000				0.1			0.0			0.0			98.65	13110.7
LTM02	GR2122151	4032602	27.6KV_1P_Y1/0_AL	Overhead Line	49.1	230.0000				0.1			0.0			0.0			98.65	13159.7
LTM02	GR2122152	4033013	27.6KV_1P_Y1/0_AL	Overhead Line	55.9	230.0000				0.0			0.0			0.0			98.65	13215.6
LTM02	GR2122155	4034243	27.6KV_1P_Y1/0_AL	Overhead Line	80.2	230.0000				0.1			0.0			0.0			98.65	13169.6
LTM02	GR2122158	4033144	27.6KV_1P_Y1/0_AL	Overhead Line	4.6	230.0000			13.3			0.9			0.4			98.22			12454.8
LTM02	GR2122159	17992738	27.6KV_1P_Y1/0_AL	Overhead Line	60.6	230.0000			13.3			0.9			0.4			98.22			12515.4
LTM02	GR2122164	4044601	27.6KV_1P_Y1/0_AL	Overhead Line	4.3	230.0000			13.3			0.9			0.4			98.23			12225.5
LTM02	GR2122165	17992698	27.6KV_1P_Y1/0_AL	Overhead Line	17.0	230.0000			13.3			0.9			0.4			98.23			12242.6
LTM02	GR2122166	4044598	27.6KV_1P_Y1/0_AL	Overhead Line	31.3	230.0000			13.3			0.9			0.4			98.23			12273.9
LTM02	GR2122167	4044599	27.6KV_1P_Y1/0_AL	Overhead Line	42.7	230.0000			13.3			0.9			0.4			98.23			12316.5
LTM02	GR2122168	4044600	27.6KV_1P_Y1/0_AL	Overhead Line	41.6	230.0000			13.3			0.9			0.4			98.23			12358.1
LTM02	GR2122175	4033019	27.6KV_1P_Y1/0_AL	Overhead Line	4.0	230.0000			13.3			0.9			0.4			98.24			11781.5
LTM02	GR2122176	18126202	27.6KV_1P_Y1/0_AL	Overhead Line	64.1	230.0000			13.3			0.9			0.4			98.24			11845.6
LTM02	GR2122177	4033141	27.6KV_1P_Y1/0_AL	Overhead Line	77.6	230.0000			13.3			0.9			0.4			98.24			11923.2
LTM02	GR2122184	4045471	27.6KV_1P_Y1/0_AL	Overhead Line	54.1	230.0000				0.0			0.0			0.0			98.63	11071.4
LTM02	GR2122201	4043049	27.6KV_1P_Y1/0_AL	Overhead Line	84.6	230.0000		26.5			1.7			0.7			98.11				9268.1
LTM02	GR2122202	4046869	27.6KV_1P_Y1/0_AL	Overhead Line	33.0	230.0000		26.5			1.7			0.7			98.11				9301.1
LTM02	GR2122215	4042710	27.6KV_3P_Y1/0_AL	Overhead Line	15.8	530.0000		6.5	6.6	5.5	0.4	0.4	0.4	0.1	0.1	0.1	98.18	98.33	98.59	7844.5
LTM02	GR2122216	4042711	27.6KV_3P_Y1/0_AL	Overhead Line	38.3	530.0000		6.5	6.6	5.5	0.4	0.4	0.4	0.1	0.1	0.1	98.18	98.33	98.59	7882.8
LTM02	GR2122217	4047042	27.6KV_3P_Y1/0_AL	Overhead Line	41.5	530.0000		6.5	6.6	5.5	0.4	0.4	0.4	0.1	0.1	0.1	98.18	98.33	98.59	7924.2
LTM02	GR2122218	4042712	27.6KV_3P_Y1/0_AL	Overhead Line	39.2	530.0000		6.5	6.6	5.5	0.4	0.4	0.4	0.1	0.1	0.1	98.18	98.33	98.59	7963.4
LTM02	GR2122223	4044366	27.6KV_1P_Y1/0_AL	Overhead Line	18.5	230.0000			13.3			0.9			0.4			98.34			7167.4
LTM02	GR2122224	4045842	27.6KV_1P_Y1/0_AL	Overhead Line	29.7	230.0000			13.3			0.9			0.4			98.34			7197.1
LTM02	GR2122227	18189326	27.6KV_1P_Y1/0_AL	Overhead Line	17.0	230.0000				0.0			0.0			0.0			98.58	7104.3
LTM02	GR2122228	18207409	27.6KV_1P_Y1/0_AL	Overhead Line	12.7	230.0000				0.0			0.0			0.0			98.58	7100.0
LTM02	GR2122229	18207463	27.6KV_1P_Y1/0_AL	Overhead Line	36.6	230.0000				0.0			0.0			0.0			98.58	7136.6
LTM02	GR2120521	GLTE0683-4063111	27.6KV_600V_1500_3P	Two-Winding Transformer	0.0		1500.00	238.3	260.7	260.2	15.2	16.6	16.6	47.0	51.5	51.2	97.24	96.90	97.18	3323.2
LTM02	GR2120525	X24418-1655093	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	26.5			1.7			52.3			97.34			3175.7
LTM02	GR2120552	CP9-13126623	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	53.2	53.8	44.9	3.4	3.4	2.9	52.3	52.9	44.3	96.93	96.87	97.14	3889.5
LTM02	GR2120556	UNKNOWN-1654079	27.6KV_347V_750_3P	Two-Winding Transformer	0.0		750.00	132.6	134.1	112.0	8.5	8.5	7.1	52.3	52.9	44.3	97.15	97.10	97.33	3491.4
LTM02	GR2120559	X16488-1653658	27.6KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	26.5	26.8	22.4	1.7	1.7	1.4	52.3	52.9	44.3	97.14	97.09	97.32	3371.0
LTM02	GR2120585	TP11555-15607918	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	53.2	53.8	44.9	3.4	3.4	2.9	52.3	52.9	44.3	96.89	96.83	97.10	3904.0
LTM02	GR2120591	X16481-1653610	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		20.1			1.3			52.9			97.19			4008.8
LTM02	GR2120593	X16480-1653557	27.6KV_347V/600V_225_3P	Two-Winding Transformer	0.0		225.00	39.9	40.3	33.7	2.5	2.6	2.1	52.3	52.9	44.3	96.89	96.83	97.10	3982.8
LTM02	GR2120598	GLTE3150-1658281	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	53.2	53.8	44.9	3.4	3.4	2.9	52.3	52.9	44.3	96.89	96.83	97.10	3971.0
LTM02	GR2120600	X16477-1653560	27.6KV_600V_225_3P	Two-Winding Transformer	0.0		225.00	39.9	40.3	33.7	2.5	2.6	2.1	52.3	52.9	44.3	96.89	96.83	97.10	3847.1
LTM02	GR2120602	X16474-1653585	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	26.5			1.7			52.3			97.24			3739.7
LTM02	GR2120604	X16470-1653741	27.6KV_347V_225_3P	Two-Winding Transformer	0.0		225.00	39.9	40.3	33.7	2.5	2.6	2.1	52.3	52.9	44.3	96.90	96.84	97.10	3611.8
LTM02	GR2120606	X16469-1655237	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.4			52.9			97.20			3581.6
LTM02	GR2120633	TP9945-13193241	27.6KV_347V/600V_500_3P	Two-Winding Transformer	0.0		500.00	79.7	87.6	85.7	5.1	5.6	5.5	47.2	51.9	50.6	97.11	96.82	97.05	4225.8
LTM02	GR2120639	X16461-1653594	27.6KV_347V/600V_200_3P	Two-Winding Transformer	0.0		200.00	35.4	35.8	29.9	2.3	2.3	1.9	52.3	52.9	44.3	96.84	96.76	97.00	4256.8
LTM02	GR2120641	X16460-1653565	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.42			4215.1
LTM02	GR2120643	X16457-1655234	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		8.0			0.5			52.9			97.12			4086.9
LTM02	GR2120645	X16453-1655176	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.4			1.4			44.3			97.29	3922.5
LTM02	GR2120647	X16449-1655137	27.6KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	26.5	26.8	22.4	1.7	1.7	1.4	52.3	52.9	44.3	97.06	96.98	97.18	3788.0
LTM02	GR2120649	X16448-1655112	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.43			3745.6
LTM02	GR2120661	TP12850-18001956	27.6KV_347V/600V_750_3P	Two-Winding Transformer	0.0		750.00	132.6	134.1	112.0	8.5	8.6	7.2	52.3	52.9	44.3	97.03	96.94	97.14	4151.9
LTM02	GR2120669	X47417-13968729	27.6KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	26.5	26.8	22.4	1.7	1.7	1.4	52.3	52.9	44.3	97.01	96.91	97.10	4016.1
LTM02	GR2120684	X24423-1654864	27.6KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	26.5	26.8	22.4	1.7	1.7	1.4	52.3	52.9	44.3	96.93	96.80	96.94	4372.0
LTM02	GR2120735	TP14429-18988939	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	53.2	53.8	44.9	3.4	3.4	2.9	52.3	52.9	44.3	96.58	96.38	96.50	6706.1
LTM02	GR2120745	X16115-1654237	27.6KV_347V/600V_75_3P	Two-Winding Transformer	0.0		75.00	13.2	13.4	11.2	0.8	0.9	0.7	52.3	52.9	44.3	96.94	96.75	96.80	5094.8
LTM02	GR2120764	TN8943-11647381	27.6KV_347V/600V_1500_3P	Two-Winding Transformer	0.0		1500.00	235.7	238.3	199.1	15.1	15.3	12.8	46.5	47.0	39.4	96.71	96.48	96.52	5555.6
LTM02	GR2120780	GL002034-1654431	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.4			0.3			52.9			96.50			6011.3
LTM02	GR2120794	TP6339-11309927	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	53.2	53.8	44.9	3.4	3.5	2.9	52.3	52.9	44.3	96.32	96.04	96.00	6254.0

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2120806	TP14229-18203519	27.6KV_347V/600V_750_3P	Two-Winding Transformer	0.0		750.00	132.6	134.1	112.0	8.5	8.6	7.2	52.3	52.9	44.3	96.49	96.19	96.09	6624.1
LTM02	GR2120815	TP13310-18117008	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.8			44.3			96.07	7077.3
LTM02	GR2120820	TP13312-18117104	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.8			44.3			96.07	7102.2
LTM02	GR2120825	TP13313-18117115	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.8			44.3			96.06	7179.8
LTM02	GR2120830	TP13314-18117114	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.8			44.3			96.06	7263.1
LTM02	GR2120835	TP13315-18117111	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.8			44.3			96.06	7293.9
LTM02	GR2120840	TP12320-16478353	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.56			6870.2
LTM02	GR2120845	TP12319-16478352	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.56			6898.7
LTM02	GR2120851	TP12318-16478390	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.53			7112.3
LTM02	GR2120856	TP12317-16478389	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.52			7189.8
LTM02	GR2120861	TP12316-16478387	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.50			7289.1
LTM02	GR2120866	TP12315-16478378	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.50			7348.9
LTM02	GR2120871	TP12312-16478374	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.48			7613.4
LTM02	GR2120876	TP12311-16478371	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.48			7720.2
LTM02	GR2120881	TP12310-16478392	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.47			7853.1
LTM02	GR2120887	TP12321-16478351	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.4			52.9			96.23		6946.4
LTM02	GR2120893	TP12322-16478348	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.4			52.9			96.21		7061.1
LTM02	GR2120898	TP12323-16478255	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.16		7286.8
LTM02	GR2120903	TP12333-16478437	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.14		7448.5
LTM02	GR2120908	TP13779-18191952	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		26.8			1.7			52.9			96.11		7629.0
LTM02	GR2120913	TP13778-18191203	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00		89.5			5.8			52.9			96.07		7719.9
LTM02	GR2120918	TP13777-18191201	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		40.2			2.6			52.9			96.09		7803.0
LTM02	GR2120923	TP13776-18192239	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		40.2			2.6			52.9			96.07		7965.1
LTM02	GR2120928	TP13775-18192240	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.07		8048.5
LTM02	GR2120933	TP13774-18192241	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.06		8165.2
LTM02	GR2120938	TP13773-18192242	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.06		8267.6
LTM02	GR2120962	GL000265-1653742	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.2			0.7			44.3			96.25	7415.1
LTM02	GR2120984	X25836-16416423	27.6KV_347V/600V_112.5_3P	Two-Winding Transformer	0.0		112.50	19.9	20.1	16.8	1.3	1.3	1.1	52.3	52.9	44.3	96.42	96.07	95.86	7434.8
LTM02	GR2120986	X47706-14644003	27.6KV_347V/600V_225_3P	Two-Winding Transformer	0.0		225.00	39.9	40.3	33.7	2.6	2.6	2.2	52.3	52.9	44.3	96.21	95.85	95.68	7386.7
LTM02	GR2120988	X47703-14644010	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.4			1.4			44.3			95.98	7248.6
LTM02	GR2121008	TP12299-16478370	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.48			7854.3
LTM02	GR2121013	TP12300-16478366	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.47			7909.1
LTM02	GR2121021	TP12301-16478364	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.39			8248.9
LTM02	GR2121026	TP12302-16478365	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.39			8265.9
LTM02	GR2121031	TP12303-16478360	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.37			8364.4
LTM02	GR2121036	TP12304-16478354	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.37			8418.2
LTM02	GR2121041	TP12305-16478355	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.36			8446.0
LTM02	GR2121046	TP12306-16478356	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.36			8500.5
LTM02	GR2121051	TP12307-16478395	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	88.5			5.7			52.3			96.32			8622.8
LTM02	GR2121056	TP12308-16478394	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.34			8676.8
LTM02	GR2121061	TP12309-16478393	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.34			8816.0
LTM02	GR2121068	TP12313-16478376	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.89	8032.2
LTM02	GR2121073	TP12314-16478345	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.88	8128.4
LTM02	GR2121078	TP13319-18117117	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.86	8318.6
LTM02	GR2121083	TP13318-18117119	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.86	8337.2
LTM02	GR2121088	TP13317-18117109	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			33.6			2.2			44.3			95.86	8470.3
LTM02	GR2121093	TP13316-18117108	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.8			44.3			95.83	8527.0
LTM02	GR2121102	TP12324-16478396	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.16		7830.7
LTM02	GR2121107	TP12325-16478398	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.15		7871.1
LTM02	GR2121112	TP12329-16478441	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.12		8073.8
LTM02	GR2121117	TP12330-16478438	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.10		8172.3
LTM02	GR2121122	TP12327-16478443	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.08		8354.3
LTM02	GR2121127	TP12326-16478400	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.07		8498.6
LTM02	GR2121132	TP12328-16478407	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.06		8593.9
LTM02	GR2121137	TP12331-16478435	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.06		8681.2
LTM02	GR2121142	TP12332-16478436	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.06		8693.8
LTM02	GR2121164	TP13757-18190960	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.91	8033.0
LTM02	GR2121169	TP13758-18190948	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.8			44.3			95.87	8185.7
LTM02	GR2121174	TP13759-18190947	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.8			44.3			95.87	8205.8
LTM02	GR2121179	TP13760-18190949	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.88	8294.1
LTM02	GR2121184	TP13761-18191014	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.8			44.3			95.85	8447.7
LTM02	GR2121189	TP13762-18191043	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.8			44.3			95.85	8536.6
LTM02	GR2121199	TP13828-18133729	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.17		8672.4
LTM02	GR2121212	TP13827-18133728	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.89	8671.2
LTM02	GR2121217	TP13826-18133726	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.89	8790.6
LTM02	GR2121222	TP13825-18133724	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.8			44.3			95.84	8700.9
LTM02	GR2121238	TP13377-18100471	27.6KV_347V/600V_500_3P	Two-Winding Transformer	0.0		500.00	88.5	89.5	74.7	5.7	5.8	4.8	52.3	52.9	44.3	96.33	95.94	95.72	7538.4
LTM02	GR2121247	TP12454-17242248	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.80	7751.1
LTM02	GR2121252	TP12460-17242320	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.77	7804.5
LTM02	GR2121257	TP12556-17242323	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.73	7912.4
LTM02	GR2121262	TP12464-17242326	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.9			44.3			95.65	8051.4
LTM02	GR2121267	TP12480-17242348	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.62	8181.4
LTM02	GR2121272	TP12498-17242344	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.60	8234.0
LTM02	GR2121277	TP12559-17242346	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.60	8246.5
LTM02	GR2121282	TP12476-17242347	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.58	8298.8
LTM02	GR2121287	TP12501-17242369	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.52	8511.5

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2121292	TP12502-17242370	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.51	8542.9
LTM02	GR2121298	TP12483-17242439	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.46	8740.9
LTM02	GR2121303	TP12486-17242429	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.44	8815.1
LTM02	GR2121308	TP12487-17242437	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.42	8891.7
LTM02	GR2121313	TP12488-17242435	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.40	8997.8
LTM02	GR2121318	TP12493-17242436	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.39	9069.9
LTM02	GR2121323	TP12494-17242363	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.37	9200.1
LTM02	GR2121328	TP12489-17242433	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.35	9304.8
LTM02	GR2121333	TP12513-17242432	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.35	9328.0
LTM02	GR2121338	TP12490-17242404	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.9			44.3			95.30	9605.5
LTM02	GR2121343	TP12491-17242405	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.31	9706.8
LTM02	GR2121348	TP12492-17242406	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.31	9726.9
LTM02	GR2121353	TP12504-17242373	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.30	9879.8
LTM02	GR2121358	TP12512-17242372	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.30	9915.4
LTM02	GR2121366	TP12455-17242274	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.13		7765.2
LTM02	GR2121371	TP12459-17242321	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.12		7830.3
LTM02	GR2121376	TP12463-17242325	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.09		7970.6
LTM02	GR2121381	TP12465-17242328	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.07		8125.5
LTM02	GR2121386	TP12497-17242327	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.06		8177.9
LTM02	GR2121391	TP12477-17242368	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.03		8425.5
LTM02	GR2121396	TP12560-17242365	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.02		8477.9
LTM02	GR2121401	TP12499-17242366	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.02		8490.3
LTM02	GR2121406	TP12561-17242367	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.02		8532.5
LTM02	GR2121411	TP12503-17242371	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.02		8748.9
LTM02	GR2121418	TP12456-17242245	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.53			7722.6
LTM02	GR2121423	TP12481-17242280	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.52			7767.6
LTM02	GR2121428	TP12458-18060686	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.6			52.3			96.50			7826.1
LTM02	GR2121433	TP12461-18060689	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.6			52.3			96.49			7878.6
LTM02	GR2121438	TP12462-18060687	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.6			52.3			96.49			7891.4
LTM02	GR2121443	TP12557-18060685	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.6			52.3			96.48			7943.8
LTM02	GR2121448	TP12457-18060673	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.6			52.3			96.47			8042.9
LTM02	GR2121453	TP12468-18060677	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.6			52.3			96.47			8090.3
LTM02	GR2121458	TP12469-18060683	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.6			52.3			96.46			8154.9
LTM02	GR2121463	TP12470-18060680	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.6			52.3			96.46			8167.5
LTM02	GR2121468	TP12558-18060678	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.6			52.3			96.45			8232.3
LTM02	GR2121473	TP12471-18060672	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.6			52.3			96.45			8303.7
LTM02	GR2121478	TP12467-18060665	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.6			52.3			96.45			8382.6
LTM02	GR2121483	TP12466-18060669	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.6			52.3			96.45			8431.9
LTM02	GR2121490	X39073-12988487	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.2			0.7			44.3			96.16	7581.2
LTM02	GR2121497	GL000798-1654147	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.4			0.3			52.9			96.18		7642.1
LTM02	GR2121499	X34483-1685758	27.6KV_120V/240V_37_1P	Two-Winding Transformer	0.0		37.00	19.6			1.3			52.3			96.55			7206.4
LTM02	GR2121507	TP13480-18154908	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			33.6			2.2			44.3			95.91	7648.4
LTM02	GR2121512	TP13479-18154881	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.8			44.3			95.88	7724.7
LTM02	GR2121517	TP13478-18153704	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.90	7751.6
LTM02	GR2121525	TP13764-18191087	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.88	8235.2
LTM02	GR2121530	TP13763-18191070	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			74.8			4.8			44.3			95.85	8328.4
LTM02	GR2121542	TP13771-18190943	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.5			52.9			96.14		8520.0
LTM02	GR2121547	TP13821-18133736	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		40.2			2.6			52.9			96.13		8569.2
LTM02	GR2121552	TP13822-18133717	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		40.2			2.6			52.9			96.13		8587.5
LTM02	GR2121557	TP13772-18190944	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		40.2			2.6			52.9			96.13		8669.4
LTM02	GR2121561	TP13765-18191194	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	88.5			5.7			52.3			96.40			7907.1
LTM02	GR2121566	TP13766-18191195	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	88.5			5.7			52.3			96.39			8005.0
LTM02	GR2121572	TP13767-18191199	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	88.5			5.7			52.3			96.36			8213.0
LTM02	GR2121577	TP13768-18191200	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.6			52.3			96.37			8440.7
LTM02	GR2121582	TP13769-18191202	27.6KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	88.5			5.7			52.3			96.34			8530.8
LTM02	GR2121587	TP13770-18191446	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	53.0			3.4			52.3			96.36			8708.7
LTM02	GR2121599	TP13823-18133722	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.8			2.9			44.3			95.87	8463.5
LTM02	GR2121604	TP13824-18133723	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			33.6			2.2			44.3			95.87	8584.6
LTM02	GR2121609	X68183-1654820	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.4			0.9			52.9			96.54		7020.0
LTM02	GR2121611	X15589-1654033	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.4			0.3			52.9			96.24		6907.4
LTM02	GR2121613	X15590-1654721	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.4			0.9			52.9			96.57		6846.5
LTM02	GR2121615	X34574-14734764	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	39.7			2.5			52.3			96.59			6773.9
LTM02	GR2121617	X34573-16406942	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			33.6			2.2			44.3			96.11	6697.5
LTM02	GR2121619	X15594-19087118	27.6KV_120V/240V_-1_1P	Two-Winding Transformer	0.0		50.00			0.0			0.0			0.0			97.17	6604.3
LTM02	GR2121624	X24352-1654167	27.6KV_UNKNOWN_150_3P	Two-Winding Transformer	0.0		150.00	26.2	26.5	22.2	1.7	1.7	1.4	17.4	17.6	14.8	97.72	97.45	97.10	6651.4
LTM02	GR2121630	X15597-1654351	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			96.66			6415.9
LTM02	GR2121632	X15600-1654352	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	26.5			1.7			52.3			96.66			6301.3
LTM02	GR2121634	X15656-1654293	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		26.8			1.7			52.9			96.42			6150.2
LTM02	GR2121640	X24353-4062086	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.00			6340.1
LTM02	GR2121642	X24373-1653630	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.00			6274.1
LTM02	GR2121644	X15658-1654044	27.6KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	26.5	26.8	22.4	1.7	1.7	1.4	52.3	52.9	44.3	96.56	96.30	96.24	6073.4
LTM02	GR2121646	X15660-1654173	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			4.5			0.3			44.3			96.41	5964.9
LTM02	GR2121648	X15663-1654183	27.6KV_120V/208V_75_3P	Two-Winding Transformer	0.0		75.00	13.2	13.4	11.2	0.8	0.9	0.7	52.3	52.9	44.3	96.76	96.52	96.47	5806.4
LTM02	GR2121650	GL003749-1654766	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		26.8			1.7			52.9			96.53		5762.9
LTM02	GR2121652	X15665-1654563	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			4.5			0.3			44.3			96.53	5664.2
LTM02	GR2121654	X15666-1653944	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		8.0			0.5			52.9			96.58		5594.7

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2121656	X44635-1654802	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.4			0.3			52.9			96.63		5409.4
LTM02	GR2121658	X15671-1654165	27.6KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		20.1			1.3			52.9			96.67		5282.5
LTM02	GR2121660	X15674-1653939	27.6KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			33.6			2.2			44.3			96.75	5155.8
LTM02	GR2121662	X16444-1654199	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.4			1.4			44.3			96.86	4856.3
LTM02	GR2121664	X16443-1653640	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	5.3			0.3			52.3			96.98			4780.3
LTM02	GR2121678	TNS2960-T1-13069744	27.6KV_347V/600V_1000_3P	Two-Winding Transformer	0.0		1000.00	177.0	179.0	149.5	11.3	11.5	9.6	52.3	52.9	44.3	96.75	96.58	96.71	4811.5
LTM02	GR2121681	X16439-1655041	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.2			0.7			44.3			97.21	4627.5
LTM02	GR2121683	X16433-1655191	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			22.4			1.4			44.3			97.11	4168.2
LTM02	GR2121685	X16432-1655013	27.6KV_347V/600V_75_3P	Two-Winding Transformer	0.0		75.00	13.2	13.4	11.2	0.8	0.9	0.7	52.3	52.9	44.3	97.11	97.01	97.14	4091.2
LTM02	GR2121687	X2082-1674429	27.6KV_347V_225_3P	Two-Winding Transformer	0.0		225.00	39.9	40.3	33.7	2.5	2.6	2.2	52.3	52.9	44.3	96.77	96.66	96.87	4040.5
LTM02	GR2121689	X16423-1655219	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.54			3548.6
LTM02	GR2121691	X16493-1655270	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.63			3189.3
LTM02	GR2121722	X42116-11373108	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.2			0.7			44.3			97.80	4242.8
LTM02	GR2121724	X42357-18090433	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	26.5			1.7			52.3			97.29			3921.2
LTM02	GR2121738	X67915-18097248	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			4.5			0.3			44.3			97.54	4323.5
LTM02	GR2121740	X67914-19060325	27.6KV_347V/600V_112.5_3P	Two-Winding Transformer	0.0		112.50	19.9	20.1	16.8	1.3	1.3	1.1	52.3	52.9	44.3	97.15	97.14	97.42	4262.8
LTM02	GR2121742	X67907-18049414	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			4.5			0.3			44.3			97.54	3911.1
LTM02	GR2121744	X42102-11373121	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.59		3688.6
LTM02	GR2121749	TP6748-11358944	27.6KV_347V/600V_1500_3P	Two-Winding Transformer	0.0		1500.00	265.7	268.6	224.3	16.9	17.1	14.3	52.3	52.9	44.3	97.00	96.97	97.30	3682.4
LTM02	GR2121767	TN11069-15481681	27.6KV_347V/600V_2000_3P	Two-Winding Transformer	0.0		2000.00	352.3	356.1	297.7	22.5	22.7	19.0	52.3	52.9	44.3	97.50	97.51	97.76	4000.2
LTM02	GR2121769	X56919-15481700	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.56			3988.2
LTM02	GR2121792	X18012-1653983	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		53.6			3.4			52.9			97.18		5042.9
LTM02	GR2121796	X18013-1655113	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		26.8			1.7			52.9			97.18		5067.3
LTM02	GR2121807	X58016-15579676	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		26.8			1.7			52.9			97.18		5219.3
LTM02	GR2121811	UNKNOWN-1654367	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		26.8			1.7			52.9			97.18		5173.7
LTM02	GR2121832	7595-15579980	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.45			5934.6
LTM02	GR2121839	UNKNOWN-15588035	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.2			0.7			44.3			97.83	5583.0
LTM02	GR2121842	X16533-1654363	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.2			0.7			44.3			97.83	5428.7
LTM02	GR2121880	X24715-1654084	27.6KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	53.2	53.8	44.9	3.4	3.4	2.9	52.3	52.9	44.3	96.66	96.74	97.28	7289.0
LTM02	GR2121898	UNKNOWN-15587989	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.4			0.3			52.9			97.09			7985.9
LTM02	GR2121941	UNKNOWN-15587982	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.37			10035.5
LTM02	GR2121957	X24719-1653577	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.17			10376.1
LTM02	GR2122023	GRST2	DEFAULT	Two-Winding Transformer	0.0		5000.00													13315.3
LTM02	GR2122024	GRST1	DEFAULT	Two-Winding Transformer	0.0		5000.00													13315.3
LTM02	GR2122079	UNKNOWN-15587353	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.29			13513.0
LTM02	GR2122117	TP13506-18097298	27.6KV_347V/600V_500_3P	Two-Winding Transformer	0.0		500.00	88.5	89.5	74.7	5.7	5.7	4.8	52.3	52.9	44.3	96.55	96.74	97.46	15042.0
LTM02	GR2122127	X60722-4063115	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.28			15203.6
LTM02	GR2122140	X58045-15588160	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.07			15771.1
LTM02	GR2122142	X58039-15588192	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.08			15339.2
LTM02	GR2122144	X60710-17992889	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.4			0.3			52.9			96.97			14690.9
LTM02	GR2122146	X60704-17992863	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.28			14419.9
LTM02	GR2122148	X60674-17992776	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			11.2			0.7			44.3			97.91	13145.1
LTM02	GR2122153	UNKNOWN-4062143	27.6KV_120V/240V_-1_1P	Two-Winding Transformer	0.0		50.00			0.0			0.0			0.0			98.65	13215.6
LTM02	GR2122156	X60662-17992751	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		26.8			1.7			52.9			96.98			12662.6
LTM02	GR2122160	X24722-1655289	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.30			12515.4
LTM02	GR2122162	X60657-17992731	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		26.8			1.7			52.9			96.99			12407.0
LTM02	GR2122169	X24821_DUPLICATE-4062142	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.30			12358.1
LTM02	GR2122171	X60649-17992690	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		26.8			1.7			52.9			96.99			12132.8
LTM02	GR2122173	X60644-17992666	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		26.8			1.7			52.9			97.00			11913.6
LTM02	GR2122178	X24720-1654568	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.31			11923.2
LTM02	GR2122180	X60635-17992632	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.32			11550.5
LTM02	GR2122182	X60631-17992592	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.33			11370.0
LTM02	GR2122185	X43190-13013058	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.15			10979.3
LTM02	GR2122187	X43183-13013055	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.16			10613.2
LTM02	GR2122189	X43177-13013050	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.17			10337.3
LTM02	GR2122191	X43173-13013047	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.18			10172.2
LTM02	GR2122193	X43169-13013045	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.18			9959.9
LTM02	GR2122195	X43166-13013003	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.19			9815.3
LTM02	GR2122197	X43164-13013000	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.19			9720.7
LTM02	GR2122199	X43160-13012983	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.20			9511.2
LTM02	GR2122203	UNKNOWN-1654450	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	26.5			1.7			52.3			96.90			9301.1
LTM02	GR2122205	X43154-13012941	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.22			9183.6
LTM02	GR2122207	X42566-13013741	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.25			8547.3
LTM02	GR2122209	X42559-13012931	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.27			8186.3
LTM02	GR2122211	X42555-13012928	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.28			7996.2
LTM02	GR2122213	X42552-13012926	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		26.8			1.7			52.9			97.09			7872.2
LTM02	GR2122219	UNKNOWN-4061901	27.6KV_UNKNOWN_37.5_3P	Two-Winding Transformer	0.0		37.50	6.5	6.6	5.5	0.4	0.4	0.4	17.4	17.6	14.8	98.08	98.22	98.50	7963.4
LTM02	GR2122221	X60613-17992534	27.6KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		26.8			1.7			52.9			97.10			7379.7
LTM02	GR2122225	X23283-4061963	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.41			7197.1
LTM02	GR2122230	X70870-15573446	27.6KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			44.7			2.8			44.3			97.57	6875.4
LTM02	GR2122232	X18001-1655110	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		8.0			0.5			52.9			97.18		4995.8
LTM02	GR2122234	X18004-1654154	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.9			52.9			97.50		4816.9
LTM02	GR2122236	X18094-1654092	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	5.3			0.3			52.3			97.24			4069.1
LTM02	GR2122238	X56614-14626297	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.75			2889.4
LTM02	GR2122240	X22205-1654189	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	13.2			0.8			52.3			97.93			2513.3
LTM02	GR2122242	X22203-11458877	27.6KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	26.5	26.8	22.4	1.7	1.7	1.4	52.3	52.9	44.3	97.57	97.53	97.78	2325.1

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
LTM02	GR2122244	X22202-4062756	27.6KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		13.3			0.8			52.9			98.02		2255.4
LTM02	GR2122246	X22197-1654905	27.6KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		8.0			0.5			52.9			97.84		1977.3
LTM02	GR2122248	X59228-1654130	27.6KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		5.4			0.3			52.9			98.67		249.5

Feeder Id (PF)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR187999	16455236	BUS8.32KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	100.00	100.00	0.1
RHNF3	GR188000	13467459	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		514.2	605.2	382.3	107.1	126.0	79.6	17.8	21.0	13.3	100.00	100.00	100.00	0.1
RHNF3	GR152582	5500125	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		514.2	605.2	382.3	107.1	126.0	79.6	17.8	21.0	13.3	100.00	100.00	100.00	0.2
RHNF3	GR152583	13473911	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		514.2	605.2	382.3	107.1	126.0	79.6	17.8	21.0	13.3	100.00	100.00	100.00	0.3
RHNF3	GR152584	5558057	8.32KV_3P_350_CU_XLPE	Cable	2.1	390.0000		514.2	605.2	382.3	107.1	126.0	79.6	27.4	32.3	20.4	100.00	100.00	100.00	2.4
RHNF3	GR152585	5508080	8.32KV_3P_350_CU_XLPE	Cable	50.8	390.0000		514.2	605.2	382.3	107.1	126.0	79.6	27.4	32.3	20.4	99.97	99.96	99.98	53.2
RHNF3	GR152685	5558242	8.32KV_1P_2/0_AL_XLPE	Cable	97.0	220.0000			71.8			15.8			7.2			94.87		4294.2
RHNF3	GR152690	5508070	8.32KV_1P_2/0_AL_XLPE	Cable	96.8	220.0000			53.9			11.8			5.4			94.85		4391.0
RHNF3	GR152695	5508071	8.32KV_1P_2/0_AL_XLPE	Cable	141.2	220.0000			35.9			7.9			3.6			94.84		4532.2
RHNF3	GR152700	5508072	8.32KV_1P_2/0_AL_XLPE	Cable	118.2	220.0000			18.0			3.9			1.8			94.83		4650.4
RHNF3	GR152760	18986823	8.32KV_1P_1/0_AL_XLPE	Cable	211.3	220.0000		11.3		2.5			1.1				93.91			4673.7
RHNF3	GR153203	11241287	8.32KV_3P_2/0_AL_XLPE	Cable	46.5	265.0000		27.4	27.4	27.4	6.1	6.0	5.8	2.3	2.3	2.2	93.26	94.47	98.00	4815.9
RHNF3	GR153212	5510435	8.32KV_1P_2/0_AL_XLPE	Cable	4.2	220.0000				5.1			1.1			0.5			97.99	5041.4
RHNF3	GR153213	11240844	8.32KV_1P_2/0_AL_XLPE	Cable	36.5	220.0000				5.1			1.1			0.5			97.99	5077.9
RHNF3	GR153218	11241255	8.32KV_3P_2/0_AL_XLPE	Cable	11.0	265.0000		11.3	8.9	5.1	2.5	2.0	1.1	1.0	0.7	0.4	93.04	94.39	97.99	5026.1
RHNF3	GR153247	11241651	8.32KV_1P_2/0_AL_XLPE	Cable	63.0	220.0000			9.0			2.0			0.9			94.15			6078.1
RHNF3	GR153254	16478184	8.32KV_3P_3/0_AL_XLPE	Cable	30.0	265.0000		56.8	18.0	10.3	12.8	4.0	2.2	4.8	1.5	0.8	92.47	94.17	97.97	5794.6
RHNF3	GR153255	16478187	8.32KV_2P_2/0_AL_XLPE	Cable	20.1	265.0000		56.8		10.3	12.8		2.2	4.8		0.8	92.47		97.97	5814.7
RHNF3	GR153256	5512016	8.32KV_1P_2/0_AL_XLPE	Cable	151.4	220.0000		56.8			12.8			5.8			92.44			5966.1
RHNF3	GR153261	5512017	8.32KV_1P_2/0_AL_XLPE	Cable	120.5	220.0000		34.0			7.7			3.5			92.43			6086.5
RHNF3	GR153266	5512018	8.32KV_1P_2/0_AL_XLPE	Cable	119.5	220.0000		11.3			2.6			1.2			92.42			6206.0
RHNF3	GR153270	5560705	8.32KV_1P_2/0_AL_XLPE	Cable	86.4	220.0000				10.3			2.2			1.0			97.96	5901.1
RHNF3	GR153275	5512404	8.32KV_1P_2/0_AL_XLPE	Cable	156.8	220.0000			18.0			4.0			1.8			94.16		5951.3
RHNF3	GR153307	5509896	8.32KV_1P_2/0_AL_XLPE	Cable	128.5	220.0000			44.9			9.9			4.5			93.96		6454.8
RHNF3	GR153312	12939423	8.32KV_1P_2/0_AL_XLPE	Cable	219.8	220.0000			35.9			8.0			3.6			93.93		6674.6
RHNF3	GR153317	12939418	8.32KV_1P_2/0_AL_XLPE	Cable	213.0	220.0000			26.9			6.0			2.7			93.91		6887.7
RHNF3	GR153322	12939413	8.32KV_1P_2/0_AL_XLPE	Cable	172.5	220.0000			9.0			2.0			0.9			93.90		7060.1
RHNF3	GR153327	12939409	8.32KV_1P_2/0_AL_XLPE	Cable	91.8	220.0000			0.0			0.0			0.0			93.90		7151.9
RHNF3	GR153328	11557575	8.32KV_1P_2/0_AL_XLPE	Cable	107.1	220.0000			0.0			0.0			0.0			93.90		7259.0
RHNF3	GR153334	12939384	8.32KV_1P_2/0_AL_XLPE	Cable	155.2	220.0000			49.4			10.9			5.0			94.01		6082.3
RHNF3	GR153339	12939394	8.32KV_1P_2/0_AL_XLPE	Cable	225.5	220.0000			35.9			8.0			3.6			93.99		6307.8
RHNF3	GR153344	15467683	8.32KV_1P_2/0_AL_XLPE	Cable	138.8	220.0000			26.9			6.0			2.7			93.97		6446.6
RHNF3	GR153345	14658872	8.32KV_1P_1/0_AL_XLPE	Cable	260.1	220.0000			26.9			6.0			2.7			93.95		6706.7
RHNF3	GR153350	14658886	8.32KV_1P_1/0_AL_XLPE	Cable	260.1	220.0000			9.0			2.0			0.9			93.94		6966.7
RHNF3	GR153351	11557644	8.32KV_1P_2/0_AL_XLPE	Cable	25.8	220.0000			9.0			2.0			0.9			93.94		6992.6
RHNF3	GR153362	5510462	8.32KV_3P_2/0_AL_XLPE	Cable	26.8	265.0000		22.7	18.0	10.3	5.1	4.0	2.2	1.9	1.5	0.8	92.47	94.18	97.97	5656.2
RHNF3	GR153363	5508597	8.32KV_1P_2/0_AL_XLPE	Cable	197.5	220.0000		22.7			5.1			2.3			92.45				5853.6
RHNF3	GR153368	5512020	8.32KV_1P_2/0_AL_XLPE	Cable	177.0	220.0000		11.3			2.6			1.2			92.44				6030.6
RHNF3	GR153373	5512019	8.32KV_1P_2/0_AL_XLPE	Cable	175.0	220.0000		0.0			0.0			0.0			92.44				6205.6
RHNF3	GR153375	5511789	8.32KV_2P_2/0_AL_XLPE	Cable	1.1	265.0000			18.0	10.3		4.0	2.2		1.5	0.8		94.18	97.97	5657.3
RHNF3	GR153376	5511288	8.32KV_1P_2/0_AL_XLPE	Cable	34.8	220.0000				10.3			2.2			1.0			97.96	5692.0
RHNF3	GR153381	5560704	8.32KV_1P_2/0_AL_XLPE	Cable	138.8	220.0000				0.0			0.0			0.0			97.96	5830.8
RHNF3	GR153382	5512402	8.32KV_1P_2/0_AL_XLPE	Cable	738.9	220.0000			18.0			4.0			1.8			94.14			6396.2
RHNF3	GR153387	5512403	8.32KV_1P_2/0_AL_XLPE	Cable	89.1	220.0000			0.0			0.0			0.0			94.14			6485.2
RHNF3	GR153443	11239436	8.32KV_1P_2/0_AL_XLPE	Cable	46.7	220.0000		39.7			9.0			4.1			91.68				7570.9
RHNF3	GR153529	5510507	8.32KV_1P_2/0_AL_XLPE	Cable	92.6	220.0000		17.0			3.9			1.8			91.65				7747.2
RHNF3	GR153578	5512780	8.32KV_1P_2/0_AL_XLPE	Cable	183.8	220.0000			71.9			15.8			7.2			94.47			4879.1
RHNF3	GR153583	5511179	8.32KV_1P_2/0_AL_XLPE	Cable	149.8	220.0000			53.9			11.9			5.4			94.44			5028.9
RHNF3	GR153588	5511389	8.32KV_1P_2/0_AL_XLPE	Cable	146.7	220.0000			35.9			7.9			3.6			94.42			5175.6
RHNF3	GR153593	5511390	8.32KV_1P_2/0_AL_XLPE	Cable	520.8	220.0000			18.0			4.0			1.8			94.39			5696.4
RHNF3	GR153598	5508430	8.32KV_1P_2/0_AL_XLPE	Cable	154.3	220.0000			0.0			0.0			0.0			94.39			5850.6
RHNF3	GR153659	18164026	8.32KV_1P_1/0_AL_XLPE	Cable	204.1	220.0000				10.3			2.2			1.0			97.45	5362.6
RHNF3	GR152586	12940925	8.32KV_3P_N1/0_AL	Overhead Line	7.0	230.0000		514.1	605.0	382.2	107.1	126.0	79.6	46.5	54.8	34.6	99.96	99.95	99.97	60.2
RHNF3	GR152587	12940926	8.32KV_3P_Y3/0_AL	Overhead Line	49.9	270.0000		514.0	604.9	382.2	107.1	126.0	79.6	39.6	46.7	29.5	99.89	99.88	99.94	110.0
RHNF3	GR152588	5557943	8.32KV_3P_Y3/0_AL	Overhead Line	62.2	270.0000		513.7	604.5	382.0	107.1	126.0	79.6	39.6	46.7	29.5	99.79	99.80	99.90	172.3
RHNF3	GR152589	5557944	8.32KV_3P_Y3/0_AL	Overhead Line	61.9	270.0000		513.2	604.0	381.9	107.1	126.0	79.6	39.7	46.7	29.5	99.70	99.71	99.87	234.1
RHNF3	GR152590	5557945	8.32KV_3P_Y3/0_AL	Overhead Line	72.7	270.0000		512.7	603.5	381.8	107.1	126.0	79.6	39.7	46.7	29.5	99.60	99.61	99.82	306.8
RHNF3	GR152591	5508439	8.32KV_3P_Y3/0_AL	Overhead Line	79.2	270.0000		512.2	602.9	381.6	107.1	126.0	79.6	39.7	46.7	29.5	99.48	99.51	99.77	386.0
RHNF3	GR152592	5508440	8.32KV_3P_Y3/0_AL	Overhead Line	76.1	270.0000		511.6	602.3	381.4	107.1	126.0	79.6	39.7	46.7	29.5	99.36	99.40	99.72	462.2
RHNF3	GR152593	5508441	8.32KV_3P_Y3/0_AL	Overhead Line	72.3	270.0000		511.0	601.6	381.2	107.1	126.0	79.6	39.7	46.7	29.5	99.26	99.30	99.68	534.5
RHNF3	GR152594	5508442	8.32KV_3P_Y3/0_AL	Overhead Line	62.2	270.0000		510.4	601.0	381.1	107.1	126.0	79.6	39.7	46.7	29.5	99.17	99.22	99.64	596.7
RHNF3	GR152595	5508443	8.32KV_3P_Y3/0_AL	Overhead Line	73.0	270.0000		510.0	600.5	380.9	107.1	126.0	79.6	39.7	46.7	29.5	99.06	99.12	99.60	669.7
RHNF3	GR152596	5508444	8.32KV_3P_Y3/0_AL	Overhead Line	73.1	270.0000		509.4	599.9	380.7	107.1	126.0	79.6	39.7	46.7	29.5	98.95	99.02	99.55	742.8
RHNF3	GR152597	5511700	8.32KV_3P_Y3/0_AL	Overhead Line	74.9	270.0000		505.5	599.3	380.6	106.3	126.0	79.6	39.4	46.7	29.5	98.84	98.92	99.51	817.7
RHNF3	GR152598	5508445	8.32KV_3P_Y3/0_AL	Overhead Line	72.7	270.0000		504.9	596.9	380.4	106.3	125.6	79.6	39.4	46.5	29.5	98.73	98.82	99.46	890.4
RHNF3	GR152599	5508446	8.32KV_3P_Y3/0_AL	Overhead Line	73.7	270.0000		504.4	596.3	380.2	106.3	125.6	79.6	39.4	46.5	29.5	98.62	98.72	99.42	964.1
RHNF3	GR152600	5508447	8.32KV_3P_Y3/0_AL	Overhead Line	80.6	270.0000		503.8	595.7	380.1	106.3	125.6	79.6	39.4	46.5	29.5	98.50	98.61	99.37	1044.7
RHNF3	GR152601	5508448	8.32KV_3P_Y3/0_AL	Overhead Line	79.7	270.0000		503.2	595.1	379.9	106.3	125.6	79.6	39.4	46.5	29.5	98.39	98.50	99.32	1124.4
RHNF3	GR152602	5508449	8.32KV_3P_Y3/0_AL	Overhead Line	65.6	270.0000		502.6	588.2	379.7	106.3	124.3	79.6	39.4	46.0	29.5	98.29	98.42	99.27	1190.0
RHNF3	GR152603	5511069	8.32KV_3P_Y3/0_AL	Overhead Line	67.4	270.0000		502.1	587.6	379.5	106.3	124.3	79.6	39.4	46.0	29.5	98.19	98.33	99.23	1257.4
RHNF3	GR152604	5558678	8.32KV_3P_Y3/0_AL	Overhead Line	70.2	270.0000		501.6	585.3	379.4	106.3	123.9	79.6	39.4	45.9	29.5	98.09	98.23	99.19	1327.6
RHNF3	GR152605	5558679	8.32KV_3P_Y3/0_AL	Overhead Line	69.2	270.0000		501.1	584.8	379.2	106.3	123.9	79.6	39.4	45.9	29.5	97.99	98.14	99.14	1396.8
RHNF3	GR152606	5561029	8.32KV_3P_Y3/0_AL	Overhead Line	67.9	270.0000		500.6	584.2	379.0	106.3	123.9	79.6	39.4	45.9	29.5	97.89	98.05	99.10	1464.7
RHNF3	GR152607	5561030	8.32KV_3P_Y3/0_AL	Overhead Line	68.0	270.0000		500.1	583.7	378.9	106.3	123.9	79.6	39.4	45.9	29.5	97.79	97.96	99.06	1532.7
RHNF3	GR152608	5561031	8.32KV_1P_Y1/0_AL	Overhead Line	2.4	230.0000			4.5			1.0			0.4			97.96			1535.0
RHNF3	GR152609	11251035	8.32KV_1P_Y1/0_AL	Overhead Line	18.7	230.0000			4.5			1.0			0.4			97.96			1553.7

Feeder Id (PF)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR152610	5559049	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000			4.5			1.0			0.4			97.96		1596.8
RHNF3	GR152611	5559050	8.32KV_1P_Y1/0_AL	Overhead Line	41.1	230.0000			4.5			1.0			0.4			97.96		1637.9
RHNF3	GR152614	5561032	8.32KV_3P_Y3/0_AL	Overhead Line	65.4	270.0000		499.6	578.7	378.7	106.3	123.0	79.6	39.4	45.5	29.5	97.70	97.87	99.02	1598.1
RHNF3	GR152615	5561033	8.32KV_3P_Y3/0_AL	Overhead Line	65.9	270.0000		499.1	578.2	378.5	106.3	123.0	79.6	39.4	45.5	29.5	97.60	97.79	98.97	1664.0
RHNF3	GR152616	5561034	8.32KV_3P_Y3/0_AL	Overhead Line	63.3	270.0000		498.6	577.7	378.4	106.4	123.0	79.6	39.4	45.5	29.5	97.51	97.71	98.93	1727.3
RHNF3	GR152617	5561035	8.32KV_3P_Y3/0_AL	Overhead Line	67.7	270.0000		498.1	577.2	378.2	106.4	123.0	79.6	39.4	45.5	29.5	97.41	97.62	98.89	1795.0
RHNF3	GR152618	5558051	8.32KV_3P_Y3/0_AL	Overhead Line	68.1	270.0000		497.6	572.2	378.1	106.4	122.0	79.6	39.4	45.2	29.5	97.31	97.53	98.85	1863.1
RHNF3	GR152619	5558052	8.32KV_3P_Y3/0_AL	Overhead Line	69.3	270.0000		497.1	571.7	377.9	106.4	122.0	79.6	39.4	45.2	29.5	97.21	97.44	98.80	1932.5
RHNF3	GR152620	5558053	8.32KV_3P_Y3/0_AL	Overhead Line	69.0	270.0000		496.6	571.1	377.7	106.4	122.0	79.6	39.4	45.2	29.5	97.11	97.35	98.76	2001.5
RHNF3	GR152621	5558055	8.32KV_3P_Y3/0_AL	Overhead Line	75.2	270.0000		496.1	570.6	377.6	106.4	122.0	79.6	39.4	45.2	29.5	97.00	97.25	98.71	2076.7
RHNF3	GR152622	5558056	8.32KV_3P_Y3/0_AL	Overhead Line	67.3	270.0000		495.5	570.0	377.4	106.4	122.0	79.6	39.4	45.2	29.5	96.90	97.16	98.67	2143.9
RHNF3	GR152623	5558058	8.32KV_3P_Y3/0_AL	Overhead Line	68.9	270.0000		495.0	569.5	377.2	106.4	122.0	79.6	39.4	45.2	29.5	96.80	97.08	98.62	2212.8
RHNF3	GR152624	5558059	8.32KV_3P_Y3/0_AL	Overhead Line	67.2	270.0000		494.5	569.0	377.1	106.4	122.0	79.6	39.4	45.2	29.5	96.71	96.99	98.58	2280.0
RHNF3	GR152625	5558060	8.32KV_3P_Y3/0_AL	Overhead Line	76.6	270.0000		494.0	568.5	376.9	106.4	122.0	79.6	39.4	45.2	29.5	96.59	96.89	98.53	2356.6
RHNF3	GR152626	5559047	8.32KV_3P_Y3/0_AL	Overhead Line	104.7	270.0000		493.5	567.9	376.7	106.4	122.0	79.6	39.4	45.2	29.5	96.44	96.75	98.46	2461.3
RHNF3	GR152627	5560640	8.32KV_3P_Y3/0_AL	Overhead Line	74.7	270.0000		492.7	565.3	376.4	106.4	121.6	79.6	39.4	45.1	29.5	96.33	96.66	98.41	2536.0
RHNF3	GR152628	5560857	8.32KV_3P_Y3/0_AL	Overhead Line	73.2	270.0000		492.2	564.8	376.3	106.4	121.6	79.6	39.4	45.1	29.5	96.23	96.56	98.37	2609.2
RHNF3	GR152629	5560858	8.32KV_3P_Y3/0_AL	Overhead Line	48.6	270.0000		486.0	564.2	376.1	105.1	121.6	79.6	38.9	45.1	29.5	96.16	96.50	98.33	2657.8
RHNF3	GR152630	5511065	8.32KV_3P_Y3/0_AL	Overhead Line	53.2	270.0000		485.6	559.4	260.8	105.1	120.7	55.2	38.9	44.7	20.4	96.07	96.44	98.32	2711.0
RHNF3	GR152631	5560859	8.32KV_3P_Y3/0_AL	Overhead Line	72.5	270.0000		485.2	559.0	260.8	105.1	120.7	55.2	38.9	44.7	20.4	95.95	96.35	98.30	2783.4
RHNF3	GR152632	5560426	8.32KV_1P_Y1/0_AL	Overhead Line	2.3	230.0000		5.7			1.2			0.5			95.95			2785.7
RHNF3	GR152633	11279852	8.32KV_1P_Y1/0_AL	Overhead Line	27.5	230.0000		5.7			1.2			0.5			95.95			2813.2
RHNF3	GR152636	5560860	8.32KV_3P_Y3/0_AL	Overhead Line	70.7	270.0000		478.9	558.5	260.7	103.9	120.7	55.2	38.5	44.7	20.4	95.84	96.27	98.29	2854.1
RHNF3	GR152637	5560861	8.32KV_3P_Y3/0_AL	Overhead Line	73.9	270.0000		478.3	558.0	260.7	103.9	120.7	55.2	38.5	44.7	20.4	95.72	96.18	98.27	2928.0
RHNF3	GR152638	5560862	8.32KV_3P_Y3/0_AL	Overhead Line	73.6	270.0000		477.8	544.1	260.6	103.9	117.8	55.2	38.5	43.6	20.4	95.61	96.09	98.25	3001.6
RHNF3	GR152639	5560863	8.32KV_3P_Y3/0_AL	Overhead Line	83.8	270.0000		477.2	543.6	260.6	103.9	117.8	55.2	38.5	43.6	20.4	95.47	96.00	98.23	3085.4
RHNF3	GR152640	5560864	8.32KV_3P_Y3/0_AL	Overhead Line	85.8	270.0000		476.5	543.1	260.5	103.9	117.8	55.2	38.5	43.6	20.4	95.34	95.90	98.20	3171.2
RHNF3	GR152641	5560865	8.32KV_3P_Y3/0_AL	Overhead Line	83.4	270.0000		475.8	542.5	260.5	103.9	117.8	55.2	38.5	43.6	20.4	95.20	95.80	98.18	3254.6
RHNF3	GR152642	5560866	8.32KV_3P_Y3/0_AL	Overhead Line	67.1	270.0000		475.2	541.9	260.4	103.9	117.8	55.2	38.5	43.6	20.4	95.10	95.72	98.16	3321.7
RHNF3	GR152643	5560444	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000			2.7			0.6			0.3			95.72			3324.4
RHNF3	GR152644	11280000	8.32KV_1P_Y1/0_AL	Overhead Line	42.8	230.0000			2.7			0.6			0.3			95.72			3367.2
RHNF3	GR152647	5560867	8.32KV_3P_Y3/0_AL	Overhead Line	44.0	270.0000		474.6	538.8	260.4	103.9	117.2	55.2	38.5	43.4	20.5	95.03	95.67	98.15	3365.7
RHNF3	GR152648	5560868	8.32KV_3P_Y1/0_AL	Overhead Line	25.1	230.0000		5.6	4.5	2.6	1.2	1.0	0.5	0.5	0.4	0.2	95.03	95.67	98.15	3390.8
RHNF3	GR152651	5561019	8.32KV_3P_Y3/0_AL	Overhead Line	40.4	270.0000		468.7	534.1	257.8	102.7	116.2	54.7	38.0	43.0	20.2	94.96	95.63	98.14	3406.1
RHNF3	GR152652	5561021	8.32KV_3P_Y3/0_AL	Overhead Line	83.2	270.0000		462.7	533.8	257.7	101.4	116.2	54.7	37.6	43.0	20.2	94.83	95.53	98.12	3489.3
RHNF3	GR152653	5560837	8.32KV_1P_Y1/0_AL	Overhead Line	2.9	230.0000				2.6			0.5			0.2			98.12	3492.3
RHNF3	GR152654	11279955	8.32KV_1P_Y1/0_AL	Overhead Line	20.9	230.0000				2.6			0.5			0.2			98.12	3513.2
RHNF3	GR152655	11279994	8.32KV_1P_Y1/0_AL	Overhead Line	38.3	230.0000				2.6			0.5			0.2			98.12	3551.5
RHNF3	GR152659	5561022	8.32KV_3P_Y1/0_AL	Overhead Line	3.4	230.0000		16.9	13.4	7.7	3.7	2.9	1.6	1.6	1.3	0.7	94.83	95.53	98.12	3492.8
RHNF3	GR152660	11279938	8.32KV_3P_Y1/0_AL	Overhead Line	69.9	230.0000		16.9	13.4	7.7	3.7	2.9	1.6	1.6	1.3	0.7	94.83	95.53	98.12	3562.6
RHNF3	GR152663	5561023	8.32KV_3P_Y3/0_AL	Overhead Line	72.9	270.0000		445.2	519.9	247.4	97.7	113.3	52.5	36.2	42.0	19.4	94.72	95.45	98.10	3562.2
RHNF3	GR152664	5561024	8.32KV_3P_Y3/0_AL	Overhead Line	45.1	270.0000		444.6	519.5	247.4	97.7	113.3	52.5	36.2	42.0	19.4	94.66	95.40	98.09	3607.3
RHNF3	GR152665	5561025	8.32KV_3P_Y3/0_AL	Overhead Line	36.4	270.0000		444.3	519.2	247.3	97.7	113.3	52.5	36.2	42.0	19.4	94.60	95.36	98.08	3643.7
RHNF3	GR152666	5561026	8.32KV_3P_Y3/0_AL	Overhead Line	43.7	270.0000		444.1	519.0	247.3	97.7	113.3	52.5	36.2	42.0	19.4	94.54	95.31	98.07	3687.4
RHNF3	GR152667	5561027	8.32KV_3P_Y3/0_AL	Overhead Line	63.2	270.0000		443.8	518.7	247.3	97.7	113.3	52.5	36.2	42.0	19.4	94.44	95.24	98.06	3750.6
RHNF3	GR152668	5560039	8.32KV_3P_Y3/0_AL	Overhead Line	61.7	270.0000		443.3	518.3	247.3	97.7	113.3	52.5	36.2	42.0	19.4	94.35	95.17	98.04	3812.3
RHNF3	GR152669	5560040	8.32KV_3P_Y3/0_AL	Overhead Line	75.0	270.0000		442.9	517.9	247.2	97.7	113.3	52.5	36.2	42.0	19.4	94.24	95.08	98.02	3887.3
RHNF3	GR152670	5560041	8.32KV_3P_Y3/0_AL	Overhead Line	76.4	270.0000		442.4	517.5	247.2	97.7	113.3	52.5	36.2	42.0	19.4	94.12	95.00	98.01	3963.7
RHNF3	GR152671	5560044	8.32KV_3P_Y3/0_AL	Overhead Line	42.3	270.0000		441.8	517.0	247.1	97.7	113.3	52.5	36.2	42.0	19.4	94.06	94.95	98.00	4006.1
RHNF3	GR152672	5558648	8.32KV_1P_Y1/0_AL	Overhead Line	19.6	230.0000			108.7			23.8			10.4			94.94			4025.6
RHNF3	GR152673	5561058	8.32KV_1P_Y1/0_AL	Overhead Line	69.3	230.0000			108.7			23.8			10.4			94.92			4095.0
RHNF3	GR152674	5561059	8.32KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000			4.5			1.0			0.4			94.92			4097.7
RHNF3	GR152675	11276178	8.32KV_1P_Y1/0_AL	Overhead Line	21.1	230.0000			4.5			1.0			0.4			94.92			4118.9
RHNF3	GR152676	5561060	8.32KV_1P_Y1/0_AL	Overhead Line	68.3	230.0000			4.5			1.0			0.4			94.92			4187.2
RHNF3	GR152679	5561061	8.32KV_1P_Y1/0_AL	Overhead Line	48.4	230.0000			104.2			22.8			9.9			94.91			4143.4
RHNF3	GR152680	13013615	8.32KV_1P_Y1/0_AL	Overhead Line	5.9	230.0000			104.2			22.8			9.9			94.91			4149.3
RHNF3	GR152681	13013607	8.32KV_1P_Y1/0_AL	Overhead Line	6.0	230.0000			104.2			22.8			9.9			94.91			4155.3
RHNF3	GR152682	13013618	8.32KV_1P_N1/0_AL	Overhead Line	9.2	230.0000			0.0			0.0			0.0			94.91			4164.4
RHNF3	GR152683	5561062	8.32KV_1P_Y1/0_AL	Overhead Line	37.0	230.0000			104.2			22.8			9.9			94.90			4192.2
RHNF3	GR152684	5558237	8.32KV_1P_Y1/0_AL	Overhead Line	5.0	230.0000			71.8			15.8			6.9			94.89			4197.2
RHNF3	GR152704	5561063	8.32KV_1P_Y1/0_AL	Overhead Line	49.6	230.0000			32.3			7.1			3.1			94.89			4241.8
RHNF3	GR152705	5561064	8.32KV_1P_Y1/0_AL	Overhead Line	89.6	230.0000			32.3			7.1			3.1			94.88			4331.4
RHNF3	GR152706	5561065	8.32KV_1P_Y1/0_AL	Overhead Line	86.3	230.0000			32.3			7.1			3.1			94.88			4417.7
RHNF3	GR152707	5511067	8.32KV_1P_Y1/0_AL	Overhead Line	85.1	230.0000			32.3			7.1			3.1			94.87			4502.8
RHNF3	GR152708	5561066	8.32KV_1P_Y1/0_AL	Overhead Line	75.0	230.0000			27.8			6.1			2.7			94.86			4577.8
RHNF3	GR152709	5561068	8.32KV_1P_Y1/0_AL	Overhead Line	91.9	230.0000			23.3			5.1			2.2			94.86			4669.7
RHNF3	GR152710	5561069	8.32KV_1P_Y1/0_AL	Overhead Line	90.3	230.0000			23.3			5.1			2.2			94.85			4760.0
RHNF3	GR152711	5558027	8.32KV_1P_Y1/0_AL	Overhead Line	84.8	230.0000			22.4			4.9			2.1			94.85			4844.8
RHNF3	GR152712	5558037	8.32KV_1P_Y1/0_AL	Overhead Line	80.0	230.0000			22.4			4.9			2.1			94.84			4924.8
RHNF3	GR152713	11601448	8.32KV_1P_Y1/0_AL	Overhead Line	77.4	230.0000			22.4			4.9			2.1			94.84			5002.3
RHNF3	GR152714	5558038	8.32KV_1P_Y1/0_AL	Overhead Line	83.5	230.0000			22.4			4.9			2.1			94.83			5085.8
RHNF3	GR152715	5512683	8.32KV_1P_Y1/0_AL	Overhead Line	18.1	230.0000			4.5			1.0			0.4			94.83			5103.8
RHNF3	GR152718	5560744	8.32KV_1P_Y1/0_AL	Overhead Line	77.9	230.0000			17.9			3.9			1.7			94.83			5163.7
RHNF3	GR152719	5560743	8.32KV_1P_Y1/0_AL	Overhead Line	80.4	230.0000			17.9			3.9			1.7			94.82			5244.1
RHNF3	GR152720	5560742	8.32KV_1P_Y1/0_AL	Overhead Line	73.4	230.0000			17.9			3.9			1.7			94.82			5317.5
RHNF3	GR152721	5560741	8.32KV_1P_Y1/0_AL	Overhead Line	82.2	230.0000			13.5			3.0			1.3			94.82			5399.7

Feeder Id (PF)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR152722	5560740	8.32KV_1P_Y1/0_AL	Overhead Line	40.4	230.0000			4.5			1.0			0.4			94.82		5440.1
RHNF3	GR152723	5560739	8.32KV_1P_Y1/0_AL	Overhead Line	92.0	230.0000			4.5			1.0			0.4			94.82		5532.1
RHNF3	GR152724	5560738	8.32KV_1P_Y1/0_AL	Overhead Line	64.1	230.0000			4.5			1.0			0.4			94.82		5596.2
RHNF3	GR152725	5560737	8.32KV_1P_Y1/0_AL	Overhead Line	91.4	230.0000			4.5			1.0			0.4			94.81		5687.7
RHNF3	GR152726	5560736	8.32KV_1P_Y1/0_AL	Overhead Line	70.0	230.0000			0.0			0.0			0.0			94.81		5757.6
RHNF3	GR152727	5559320	8.32KV_1P_Y1/0_AL	Overhead Line	77.1	230.0000			0.0			0.0			0.0			94.81		5834.7
RHNF3	GR152728	5559319	8.32KV_1P_Y1/0_AL	Overhead Line	73.5	230.0000			0.0			0.0			0.0			94.81		5908.2
RHNF3	GR152729	5560746	8.32KV_1P_Y1/0_AL	Overhead Line	3.4	230.0000			4.5			1.0			0.4			94.81		5691.0
RHNF3	GR152730	11276155	8.32KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000			4.5			1.0			0.4			94.81		5757.1
RHNF3	GR152731	5560747	8.32KV_1P_Y1/0_AL	Overhead Line	66.8	230.0000			4.5			1.0			0.4			94.81		5823.9
RHNF3	GR152734	5560756	8.32KV_1P_Y1/0_AL	Overhead Line	21.4	230.0000			9.0			2.0			0.9			94.82		5421.1
RHNF3	GR152745	13013630	8.32KV_1P_N1/0_AL	Overhead Line	8.8	230.0000			0.0			0.0			0.0			94.91		4152.1
RHNF3	GR152746	5560049	8.32KV_3P_Y3/0_AL	Overhead Line	78.8	270.0000		160.6	70.2	149.6	35.6	15.4	31.8	13.2	5.7	11.8	94.03	94.94	97.96	4084.9
RHNF3	GR152747	11276645	8.32KV_3P_Y3/0_AL	Overhead Line	4.0	270.0000		160.6	70.2	149.6	35.6	15.4	31.8	13.2	5.7	11.8	94.03	94.94	97.96	4088.9
RHNF3	GR152748	5560051	8.32KV_3P_Y3/0_AL	Overhead Line	4.0	270.0000		160.6	70.2	149.6	35.6	15.4	31.8	13.2	5.7	11.8	94.03	94.94	97.96	4092.9
RHNF3	GR152749	11276643	8.32KV_3P_N3/0_AL	Overhead Line	7.4	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.03	94.94	97.96	4100.2
RHNF3	GR152750	11276644	8.32KV_3P_Y3/0_AL	Overhead Line	76.2	270.0000		160.6	70.2	149.5	35.6	15.4	31.8	13.2	5.7	11.8	94.00	94.93	97.92	4169.0
RHNF3	GR152751	11276250	8.32KV_1P_N1/0_AL	Overhead Line	2.7	230.0000		11.3			2.5			1.1			94.00			4171.8
RHNF3	GR152752	11276320	8.32KV_1P_N1/0_AL	Overhead Line	18.4	230.0000		11.3			2.5			1.1			94.00			4190.1
RHNF3	GR152755	5558245	8.32KV_3P_Y3/0_AL	Overhead Line	86.2	270.0000		149.2	70.2	149.5	33.1	15.4	31.8	12.2	5.7	11.8	93.98	94.92	97.88	4255.2
RHNF3	GR152756	5558246	8.32KV_3P_Y3/0_AL	Overhead Line	77.8	270.0000		149.2	70.2	146.9	33.1	15.4	31.2	12.2	5.7	11.6	93.95	94.91	97.85	4333.0
RHNF3	GR152757	5561041	8.32KV_3P_Y3/0_AL	Overhead Line	54.8	270.0000		149.2	70.2	146.8	33.1	15.4	31.2	12.2	5.7	11.6	93.93	94.90	97.82	4387.8
RHNF3	GR152758	5561042	8.32KV_3P_Y3/0_AL	Overhead Line	56.6	270.0000		149.1	70.2	146.8	33.1	15.4	31.2	12.2	5.7	11.6	93.92	94.89	97.80	4444.4
RHNF3	GR152759	18200366	8.32KV_1P_N1/0_ACSR	Overhead Line	17.9	230.0000		11.3			2.5			1.1			93.92			4462.4
RHNF3	GR152764	5561045	8.32KV_3P_Y3/0_AL	Overhead Line	63.2	270.0000		137.8	70.2	146.7	30.6	15.4	31.2	11.3	5.7	11.6	93.90	94.88	97.77	4507.6
RHNF3	GR152765	5561046	8.32KV_3P_Y3/0_AL	Overhead Line	62.8	270.0000		137.8	70.2	146.7	30.6	15.4	31.2	11.3	5.7	11.6	93.88	94.87	97.75	4570.4
RHNF3	GR152766	5560104	8.32KV_3P_Y3/0_AL	Overhead Line	58.0	270.0000		137.8	70.2	146.7	30.6	15.4	31.2	11.3	5.7	11.6	93.87	94.86	97.72	4628.4
RHNF3	GR152767	5554724	8.32KV_3P_Y3/0_AL	Overhead Line	79.4	270.0000		132.1	70.2	146.6	29.3	15.4	31.2	10.9	5.7	11.6	93.85	94.85	97.69	4707.8
RHNF3	GR152768	5554730	8.32KV_3P_Y3/0_AL	Overhead Line	71.9	270.0000		132.1	70.2	146.6	29.3	15.4	31.2	10.9	5.7	11.6	93.83	94.83	97.66	4779.7
RHNF3	GR152769	5554732	8.32KV_3P_Y3/0_AL	Overhead Line	70.1	270.0000		120.8	70.2	146.5	26.8	15.4	31.2	9.9	5.7	11.6	93.81	94.82	97.63	4849.8
RHNF3	GR152770	5511282	8.32KV_1P_Y1/0_AL	Overhead Line	39.6	230.0000		11.3			2.5			1.1			93.81			4889.4
RHNF3	GR152773	5511284	8.32KV_3P_Y3/0_AL	Overhead Line	86.0	270.0000		109.5	70.2	146.5	24.3	15.4	31.2	9.0	5.7	11.6	93.80	94.80	97.59	4935.8
RHNF3	GR152774	5560306	8.32KV_3P_Y3/0_AL	Overhead Line	62.8	270.0000		109.5	70.2	146.5	24.3	15.4	31.2	9.0	5.7	11.6	93.79	94.79	97.57	4998.5
RHNF3	GR152775	5560307	8.32KV_3P_Y3/0_AL	Overhead Line	61.8	270.0000		109.5	70.2	146.4	24.3	15.4	31.2	9.0	5.7	11.6	93.78	94.78	97.54	5060.3
RHNF3	GR152776	5560262	8.32KV_1P_Y1/0_AL	Overhead Line	20.9	230.0000		4.5			1.0			0.4			93.78			5081.3
RHNF3	GR152777	5560263	8.32KV_1P_Y1/0_AL	Overhead Line	2.4	230.0000		4.5			1.0			0.4			93.78			5083.7
RHNF3	GR152778	11276712	8.32KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000		4.5			1.0			0.4			93.77			5149.7
RHNF3	GR152779	11336653	8.32KV_1P_Y1/0_AL	Overhead Line	83.5	230.0000		2.3			0.5			0.2			93.77			5233.3
RHNF3	GR152784	5560308	8.32KV_3P_Y3/0_AL	Overhead Line	61.5	270.0000		105.0	70.1	146.4	23.3	15.4	31.2	8.6	5.7	11.6	93.77	94.76	97.52	5121.8
RHNF3	GR152785	5560264	8.32KV_1P_Y1/0_AL	Overhead Line	34.2	230.0000		2.3			0.5			0.2			93.77			5156.1
RHNF3	GR152788	5560309	8.32KV_3P_Y3/0_AL	Overhead Line	59.1	270.0000		102.7	70.1	146.3	22.8	15.4	31.2	8.4	5.7	11.6	93.76	94.75	97.50	5181.0
RHNF3	GR152789	5560266	8.32KV_1P_Y1/0_AL	Overhead Line	2.9	230.0000				2.6			0.5			0.2			97.50	5183.9
RHNF3	GR152790	11276719	8.32KV_1P_Y1/0_AL	Overhead Line	52.5	230.0000				2.6			0.5			0.2			97.50	5236.3
RHNF3	GR152791	5560672	8.32KV_1P_Y1/0_AL	Overhead Line	57.5	230.0000				2.6			0.5			0.2			97.50	5293.8
RHNF3	GR152792	5512477	8.32KV_1P_Y1/0_AL	Overhead Line	56.6	230.0000				2.6			0.5			0.2			97.50	5350.4
RHNF3	GR152795	5560310	8.32KV_3P_Y3/0_AL	Overhead Line	71.2	270.0000		102.7	70.1	143.7	22.8	15.4	30.7	8.4	5.7	11.4	93.74	94.73	97.47	5252.1
RHNF3	GR152796	5560464	8.32KV_3P_Y3/0_AL	Overhead Line	76.4	270.0000		102.7	70.1	143.7	22.8	15.4	30.7	8.4	5.7	11.4	93.73	94.72	97.44	5328.5
RHNF3	GR152797	5560465	8.32KV_3P_Y3/0_AL	Overhead Line	70.3	270.0000		102.7	70.1	143.7	22.8	15.4	30.7	8.4	5.7	11.4	93.72	94.70	97.41	5398.8
RHNF3	GR152798	5560466	8.32KV_3P_Y3/0_AL	Overhead Line	70.7	270.0000		102.7	70.1	143.6	22.8	15.4	30.7	8.4	5.7	11.4	93.71	94.69	97.39	5469.5
RHNF3	GR152799	5560467	8.32KV_3P_Y3/0_AL	Overhead Line	64.6	270.0000		102.7	70.1	143.6	22.8	15.4	30.7	8.4	5.7	11.4	93.70	94.67	97.36	5534.1
RHNF3	GR152800	5560468	8.32KV_3P_Y3/0_AL	Overhead Line	81.9	270.0000		102.7	70.1	141.0	22.8	15.4	30.1	8.4	5.7	11.2	93.68	94.65	97.33	5616.0
RHNF3	GR152801	5559864	8.32KV_1P_Y1/0_AL	Overhead Line	3.4	230.0000		11.3			2.5			1.1			93.68			5619.4
RHNF3	GR152802	11279674	8.32KV_1P_Y1/0_AL	Overhead Line	58.7	230.0000		11.3			2.5			1.1			93.68			5678.1
RHNF3	GR152803	5559865	8.32KV_1P_Y1/0_AL	Overhead Line	70.6	230.0000		5.7			1.3			0.5			93.68			5748.8
RHNF3	GR152808	5560469	8.32KV_3P_Y3/0_AL	Overhead Line	74.7	270.0000		91.4	70.1	140.9	20.3	15.4	30.1	7.5	5.7	11.2	93.67	94.64	97.30	5690.7
RHNF3	GR152809	5559866	8.32KV_1P_Y1/0_AL	Overhead Line	21.6	230.0000		2.3			0.5			0.2			93.67			5712.2
RHNF3	GR152810	11276732	8.32KV_1P_Y1/0_AL	Overhead Line	55.0	230.0000		2.3			0.5			0.2			93.67			5767.3
RHNF3	GR152811	5559870	8.32KV_1P_Y1/0_AL	Overhead Line	67.6	230.0000		2.3			0.5			0.2			93.67			5834.9
RHNF3	GR152812	5559871	8.32KV_1P_Y1/0_AL	Overhead Line	61.6	230.0000		2.3			0.5			0.2			93.67			5896.4
RHNF3	GR152813	5512471	8.32KV_1P_Y1/0_AL	Overhead Line	71.8	230.0000		2.3			0.5			0.2			93.67			5968.3
RHNF3	GR152814	5559872	8.32KV_1P_Y1/0_AL	Overhead Line	82.1	230.0000		2.3			0.5			0.2			93.67			6050.3
RHNF3	GR152815	5559882	8.32KV_1P_Y1/0_AL	Overhead Line	69.8	230.0000		2.3			0.5			0.2			93.67			6120.1
RHNF3	GR152816	5559883	8.32KV_1P_Y1/0_AL	Overhead Line	77.2	230.0000		2.3			0.5			0.2			93.67			6197.3
RHNF3	GR152817	5559884	8.32KV_1P_Y1/0_AL	Overhead Line	65.8	230.0000		2.3			0.5			0.2			93.67			6263.1
RHNF3	GR152820	5560470	8.32KV_3P_Y3/0_AL	Overhead Line	80.7	270.0000		89.2	70.1	140.9	19.8	15.4	30.1	7.3	5.7	11.2	93.66	94.62	97.27	5771.4
RHNF3	GR152821	5560471	8.32KV_3P_Y3/0_AL	Overhead Line	50.5	270.0000		89.2	70.1	140.9	19.8	15.4	30.1	7.3	5.7	11.2	93.66	94.61	97.26	5821.8
RHNF3	GR152822	5560472	8.32KV_3P_Y3/0_AL	Overhead Line	51.8	270.0000		89.2	70.0	140.8	19.8	15.4	30.1	7.3	5.7	11.2	93.65	94.59	97.24	5873.6
RHNF3	GR152823	5560473	8.32KV_3P_Y3/0_AL	Overhead Line	49.0	270.0000		83.6	70.0	140.8	18.6	15.4	30.1	6.9	5.7	11.2	93.65	94.58	97.22	5922.7
RHNF3	GR152824	5560474	8.32KV_3P_Y3/0_AL	Overhead Line	70.1	270.0000		83.6	70.0	140.8	18.6	15.4	30.1	6.9	5.7	11.2	93.64	94.56	97.19	5992.7
RHNF3	GR152825	5560475	8.32KV_3P_Y3/0_AL	Overhead Line	63.5	270.0000		83.6	70.0	140.7	18.6	15.4	30.1	6.9	5.7	11.2	93.63	94.55	97.17	6056.2
RHNF3	GR152826	5560476	8.32KV_3P_Y3/0_AL	Overhead Line	61.4	270.0000		72.4	70.0	140.7	16.1	15.4	30.1	6.0	5.7	11.2	93.63	94.53	97.15	6117.6
RHNF3	GR152827	5512476	8.32KV_3P_Y3/0_AL	Overhead Line	77.9	270.0000		72.4	70.0	140.7	16.1	15.4	30.1	6.0	5.7	11.2	93.62	94.51	97.12	6195.4
RHNF3	GR152828	5559888	8.32KV_3P_Y1/0_AL	Overhead Line	30.6	230.0000		72.4	70.0	71.2	16.1	15.4	15.3	7.0	6.7	6.6	93.62	94.50	97.12	6226.0
RHNF3	GR152829	5559889	8.32KV_3P_Y1/0_AL	Overhead Line	43.7	230.0000		72.4	70.0	71.2	16.1	15.4	15.3	7.0	6.7	6.6	93.61	94.50	97.11	6269.8
RHNF3	GR152830	5559890	8.32KV_3P_Y1/0_AL	Overhead Line	38.2	230.0000		61.3	61.2	66.2	13.6	13.5	14.2	5.9	5.9	6.2	93.61	94.49	97.11	6308.0
RHNF3	GR152831	5559891	8.32KV_3P_Y1/0_AL	Overhead Line	71.0	230.0000		61.3	61.2	63.7	13.6	13.5	13.6	5.9	5.9	5.9	93.60	94.48	97.10	6379.0

Feeder Id (PF)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR152832	5559892	8.32KV_3P_Y1/0_AL	Overhead Line	1.9	230.0000		61.3	61.2	63.7	13.6	13.5	13.6	5.9	5.9	5.9	93.60	94.48	97.10	6380.9
RHNF3	GR152833	11336566	8.32KV_3P_Y1/0_AL	Overhead Line	63.7	230.0000		61.3	61.2	63.7	13.6	13.5	13.6	5.9	5.9	5.9	93.59	94.47	97.09	6444.6
RHNF3	GR152834	5559893	8.32KV_3P_Y1/0_AL	Overhead Line	67.0	230.0000		61.3	61.2	63.7	13.6	13.5	13.6	5.9	5.9	5.9	93.58	94.46	97.08	6511.6
RHNF3	GR152835	5559894	8.32KV_3P_Y1/0_AL	Overhead Line	66.8	230.0000		61.3	61.2	63.7	13.6	13.5	13.6	5.9	5.9	5.9	93.57	94.45	97.07	6578.4
RHNF3	GR152836	5511279	8.32KV_3P_Y1/0_AL	Overhead Line	68.3	230.0000		61.2	61.2	63.6	13.6	13.5	13.7	5.9	5.9	5.9	93.56	94.44	97.06	6646.7
RHNF3	GR152837	5559895	8.32KV_3P_Y1/0_AL	Overhead Line	35.2	230.0000		61.2	61.2	63.6	13.6	13.5	13.7	5.9	5.9	5.9	93.55	94.44	97.05	6681.9
RHNF3	GR152838	17988481	8.32KV_3P_Y1/0_AL	Overhead Line	59.3	230.0000		0.0	0.0	2.6	0.0	0.0	0.6	0.0	0.0	0.2	93.55	94.44	97.05	6741.1
RHNF3	GR152841	5511881	8.32KV_3P_Y1/0_AL	Overhead Line	27.7	230.0000		61.2	61.2	61.1	13.6	13.5	13.1	5.9	5.9	5.7	93.55	94.43	97.05	6709.5
RHNF3	GR152842	5559896	8.32KV_3P_Y1/0_AL	Overhead Line	59.8	230.0000		61.2	61.2	61.1	13.6	13.5	13.1	5.9	5.9	5.7	93.54	94.43	97.04	6769.3
RHNF3	GR152843	5559898	8.32KV_3P_Y1/0_AL	Overhead Line	62.1	230.0000		61.2	61.2	61.1	13.6	13.5	13.1	5.9	5.9	5.7	93.53	94.42	97.03	6831.5
RHNF3	GR152850	5560477	8.32KV_1P_Y1/0_AL	Overhead Line	4.5	230.0000				72.8			15.6			6.8			97.12	6199.9
RHNF3	GR152851	18098483	8.32KV_1P_Y1/0_AL	Overhead Line	47.2	230.0000				72.8			15.6			6.8			97.12	6247.1
RHNF3	GR152852	18097849	8.32KV_1P_Y1/0_AL	Overhead Line	5.6	230.0000				72.8			15.6			6.8			97.12	6252.7
RHNF3	GR152853	5560478	8.32KV_1P_Y1/0_AL	Overhead Line	3.7	230.0000				72.8			15.6			6.8			97.11	6256.4
RHNF3	GR152854	18097843	8.32KV_1P_Y1/0_AL	Overhead Line	31.5	230.0000				72.8			15.6			6.8			97.11	6287.9
RHNF3	GR152855	5560479	8.32KV_1P_Y1/0_AL	Overhead Line	74.7	230.0000				72.8			15.6			6.8			97.10	6362.6
RHNF3	GR152856	5560480	8.32KV_1P_Y1/0_AL	Overhead Line	80.1	230.0000				72.8			15.6			6.8			97.09	6442.7
RHNF3	GR152857	5560481	8.32KV_1P_Y1/0_AL	Overhead Line	86.0	230.0000				72.8			15.6			6.8			97.08	6528.7
RHNF3	GR152858	5511285	8.32KV_1P_Y1/0_AL	Overhead Line	81.5	230.0000				72.8			15.6			6.8			97.07	6610.1
RHNF3	GR152859	5559901	8.32KV_1P_Y1/0_AL	Overhead Line	44.2	230.0000				2.6			0.6			0.2			97.07	6654.4
RHNF3	GR152862	5560482	8.32KV_1P_Y1/0_AL	Overhead Line	81.3	230.0000				70.3			15.1			6.6			97.06	6691.5
RHNF3	GR152863	5560483	8.32KV_1P_Y1/0_AL	Overhead Line	78.1	230.0000				69.3			14.9			6.5			97.05	6769.5
RHNF3	GR152864	5560484	8.32KV_1P_Y1/0_AL	Overhead Line	86.3	230.0000				69.3			14.9			6.5			97.04	6855.8
RHNF3	GR152865	5560485	8.32KV_1P_Y1/0_AL	Overhead Line	87.5	230.0000				69.3			14.9			6.5			97.02	6943.3
RHNF3	GR152866	5560075	8.32KV_1P_Y1/0_AL	Overhead Line	23.6	230.0000				2.6			0.6			0.2			97.02	6967.0
RHNF3	GR152867	11336550	8.32KV_1P_Y1/0_AL	Overhead Line	2.1	230.0000				2.6			0.6			0.2			97.02	6969.1
RHNF3	GR152868	11345759	8.32KV_1P_Y1/0_AL	Overhead Line	71.4	230.0000				2.6			0.6			0.2			97.02	7040.5
RHNF3	GR152869	11345740	8.32KV_1P_Y1/0_AL	Overhead Line	75.3	230.0000				2.6			0.6			0.2			97.02	7115.8
RHNF3	GR152870	5511967	8.32KV_1P_Y1/0_AL	Overhead Line	76.8	230.0000				2.6			0.6			0.2			97.02	7192.6
RHNF3	GR152873	5560076	8.32KV_1P_Y1/0_AL	Overhead Line	2.6	230.0000				10.3			2.2			1.0			97.02	6945.9
RHNF3	GR152874	11336548	8.32KV_1P_Y1/0_AL	Overhead Line	70.1	230.0000				10.3			2.2			1.0			97.02	7016.0
RHNF3	GR152875	5560078	8.32KV_1P_Y1/0_AL	Overhead Line	81.9	230.0000				10.3			2.2			1.0			97.02	7097.9
RHNF3	GR152876	5512473	8.32KV_1P_Y1/0_AL	Overhead Line	80.3	230.0000				10.3			2.2			1.0			97.02	7178.2
RHNF3	GR152877	5560079	8.32KV_1P_Y1/0_AL	Overhead Line	85.2	230.0000				7.7			1.7			0.7			97.02	7263.5
RHNF3	GR152878	5560080	8.32KV_1P_Y1/0_AL	Overhead Line	80.0	230.0000				7.7			1.7			0.7			97.01	7343.4
RHNF3	GR152879	5560081	8.32KV_1P_Y1/0_AL	Overhead Line	70.5	230.0000				7.7			1.7			0.7			97.01	7413.9
RHNF3	GR152884	5560486	8.32KV_1P_Y1/0_AL	Overhead Line	78.9	230.0000				57.0			12.2			5.3			97.02	7022.2
RHNF3	GR152885	5560487	8.32KV_1P_Y1/0_AL	Overhead Line	74.0	230.0000				57.0			12.2			5.3			97.01	7096.2
RHNF3	GR152886	5560488	8.32KV_1P_Y1/0_AL	Overhead Line	81.0	230.0000				54.5			11.7			5.1			97.00	7177.2
RHNF3	GR152887	5560489	8.32KV_1P_Y1/0_AL	Overhead Line	83.1	230.0000				54.5			11.7			5.1			97.00	7260.3
RHNF3	GR152888	5560490	8.32KV_1P_Y1/0_AL	Overhead Line	82.2	230.0000				54.5			11.7			5.1			96.99	7342.5
RHNF3	GR152889	5560491	8.32KV_1P_Y1/0_AL	Overhead Line	82.1	230.0000				54.5			11.7			5.1			96.98	7424.6
RHNF3	GR152890	5560492	8.32KV_1P_Y1/0_AL	Overhead Line	82.8	230.0000				52.1			11.2			4.9			96.98	7507.3
RHNF3	GR152891	5560493	8.32KV_1P_Y1/0_AL	Overhead Line	80.6	230.0000				52.1			11.2			4.9			96.97	7588.0
RHNF3	GR152892	5560494	8.32KV_1P_Y1/0_AL	Overhead Line	70.7	230.0000				52.1			11.2			4.9			96.96	7658.7
RHNF3	GR152893	5560495	8.32KV_1P_Y1/0_AL	Overhead Line	87.6	230.0000				51.1			11.0			4.8			96.96	7746.2
RHNF3	GR152894	5560668	8.32KV_1P_Y1/0_AL	Overhead Line	90.0	230.0000				50.2			10.8			4.7			96.95	7836.2
RHNF3	GR152895	5559690	8.32KV_1P_Y1/0_AL	Overhead Line	83.9	230.0000				47.8			10.3			4.5			96.95	7920.1
RHNF3	GR152896	5559691	8.32KV_1P_Y1/0_AL	Overhead Line	70.8	230.0000				47.8			10.3			4.5			96.94	7990.8
RHNF3	GR152897	5558293	8.32KV_1P_Y1/0_AL	Overhead Line	32.6	230.0000				10.3			2.2			1.0			96.94	8023.4
RHNF3	GR152898	5558292	8.32KV_1P_Y1/0_AL	Overhead Line	85.8	230.0000				10.3			2.2			1.0			96.94	8109.2
RHNF3	GR152899	5554927	8.32KV_1P_Y1/0_AL	Overhead Line	85.6	230.0000				10.3			2.2			1.0			96.94	8194.8
RHNF3	GR152900	5557786	8.32KV_1P_Y1/0_AL	Overhead Line	89.4	230.0000				10.3			2.2			1.0			96.93	8284.2
RHNF3	GR152901	5557791	8.32KV_1P_Y1/0_AL	Overhead Line	90.4	230.0000				7.7			1.7			0.7			96.93	8374.6
RHNF3	GR152902	5557798	8.32KV_1P_Y1/0_AL	Overhead Line	79.5	230.0000				2.6			0.6			0.2			96.93	8454.1
RHNF3	GR152903	5558291	8.32KV_1P_Y1/0_AL	Overhead Line	84.3	230.0000				2.6			0.6			0.2			96.93	8538.4
RHNF3	GR152910	5560089	8.32KV_1P_Y1/0_AL	Overhead Line	66.6	230.0000				37.0			7.9			3.5			96.93	8057.5
RHNF3	GR152911	5560090	8.32KV_1P_Y1/0_AL	Overhead Line	86.5	230.0000				34.4			7.4			3.2			96.93	8144.0
RHNF3	GR152912	5560091	8.32KV_1P_Y1/0_AL	Overhead Line	63.2	230.0000				34.4			7.4			3.2			96.92	8207.2
RHNF3	GR152913	5560092	8.32KV_1P_Y1/0_AL	Overhead Line	81.4	230.0000				31.9			6.8			3.0			96.91	8288.6
RHNF3	GR152914	5560093	8.32KV_1P_Y1/0_AL	Overhead Line	28.3	230.0000				29.3			6.3			2.7			96.91	8316.8
RHNF3	GR152915	5560094	8.32KV_1P_Y1/0_AL	Overhead Line	88.6	230.0000				29.3			6.3			2.7			96.90	8405.4
RHNF3	GR152916	5560095	8.32KV_1P_Y1/0_AL	Overhead Line	83.3	230.0000				26.7			5.7			2.5			96.90	8488.7
RHNF3	GR152917	5560096	8.32KV_1P_Y1/0_AL	Overhead Line	83.6	230.0000				21.6			4.6			2.0			96.89	8572.2
RHNF3	GR152918	5560097	8.32KV_1P_Y1/0_AL	Overhead Line	85.0	230.0000				21.6			4.6			2.0			96.89	8657.2
RHNF3	GR152919	5560098	8.32KV_1P_Y1/0_AL	Overhead Line	81.4	230.0000				21.6			4.6			2.0			96.88	8738.6
RHNF3	GR152920	5512474	8.32KV_1P_Y1/0_AL	Overhead Line	2.6	230.0000				2.6			0.6			0.2			96.88	8741.2
RHNF3	GR152921	11335945	8.32KV_1P_Y1/0_AL	Overhead Line	48.1	230.0000				2.6			0.6			0.2			96.88	8789.3
RHNF3	GR152922	5560099	8.32KV_1P_Y1/0_AL	Overhead Line	75.1	230.0000				2.6			0.6			0.2			96.88	8864.4
RHNF3	GR152923	5560100	8.32KV_1P_Y1/0_AL	Overhead Line	76.4	230.0000				2.6			0.6			0.2			96.88	8940.8
RHNF3	GR152924	5560101	8.32KV_1P_Y1/0_AL	Overhead Line	75.5	230.0000				2.6			0.6			0.2			96.88	9016.2
RHNF3	GR152925	5560102	8.32KV_1P_Y1/0_AL	Overhead Line	73.7	230.0000				2.6			0.6			0.2			96.88	9089.9
RHNF3	GR152928	5557921	8.32KV_1P_Y1/0_AL	Overhead Line	84.1	230.0000				19.0			4.1			1.8			96.88	8822.7
RHNF3	GR152929	5557919	8.32KV_1P_Y1/0_AL	Overhead Line	83.6	230.0000				19.0			4.1			1.8			96.88	8906.3
RHNF3	GR152930	5557922	8.32KV_1P_Y1/0_AL	Overhead Line	78.3	230.0000				19.0			4.1			1.8			96.87	8984.6
RHNF3	GR152931	5557923	8.32KV_1P_Y1/0_AL	Overhead Line	36.9	230.0000				16.4			3.5			1.5			96.87	9021.5

Feeder Id (PF)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR152932	5557924	8.32KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000				5.1			1.1			0.5			96.87	9024.6
RHNF3	GR152933	11335920	8.32KV_1P_Y1/0_AL	Overhead Line	46.4	230.0000				5.1			1.1			0.5			96.87	9071.0
RHNF3	GR152936	5557925	8.32KV_1P_Y1/0_AL	Overhead Line	32.5	230.0000				1.0			0.2			0.1			96.87	9054.0
RHNF3	GR152937	5558078	8.32KV_1P_Y1/0_AL	Overhead Line	2.1	230.0000				1.0			0.2			0.1			96.87	9056.2
RHNF3	GR152938	11335922	8.32KV_1P_Y1/0_AL	Overhead Line	72.8	230.0000				1.0			0.2			0.1			96.87	9128.9
RHNF3	GR152941	5558079	8.32KV_1P_Y1/0_AL	Overhead Line	80.5	230.0000				10.3			2.2			1.0			96.87	9102.0
RHNF3	GR152942	5558080	8.32KV_1P_Y1/0_AL	Overhead Line	79.9	230.0000				10.3			2.2			1.0			96.87	9182.0
RHNF3	GR152943	5558081	8.32KV_1P_Y1/0_AL	Overhead Line	85.3	230.0000				10.3			2.2			1.0			96.86	9267.2
RHNF3	GR152944	5561109	8.32KV_1P_Y1/0_AL	Overhead Line	61.8	230.0000				10.3			2.2			1.0			96.86	9329.0
RHNF3	GR152945	5561110	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000				2.6			0.6			0.2			96.86	9331.8
RHNF3	GR152946	11335918	8.32KV_1P_Y1/0_AL	Overhead Line	65.6	230.0000				2.6			0.6			0.2			96.86	9397.4
RHNF3	GR152947	5561111	8.32KV_1P_Y1/0_AL	Overhead Line	73.8	230.0000				2.6			0.6			0.2			96.86	9471.2
RHNF3	GR152948	5561112	8.32KV_1P_Y1/0_AL	Overhead Line	86.1	230.0000				2.6			0.6			0.2			96.86	9557.3
RHNF3	GR152949	5561113	8.32KV_1P_Y1/0_AL	Overhead Line	85.4	230.0000				2.6			0.6			0.2			96.86	9642.7
RHNF3	GR152952	5561114	8.32KV_1P_Y1/0_AL	Overhead Line	71.1	230.0000				7.7			1.7			0.7			96.86	9400.2
RHNF3	GR152953	5512482	8.32KV_1P_Y1/0_AL	Overhead Line	65.5	230.0000				7.7			1.7			0.7			96.86	9465.7
RHNF3	GR152954	5561115	8.32KV_1P_Y1/0_AL	Overhead Line	64.8	230.0000				7.7			1.7			0.7			96.86	9530.5
RHNF3	GR152955	5561116	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000				7.7			1.7			0.7			96.86	9573.6
RHNF3	GR152956	5561117	8.32KV_1P_Y1/0_AL	Overhead Line	74.5	230.0000				5.1			1.1			0.5			96.86	9648.1
RHNF3	GR152957	5561118	8.32KV_1P_Y1/0_AL	Overhead Line	70.7	230.0000				2.6			0.6			0.2			96.86	9718.8
RHNF3	GR152958	5561119	8.32KV_1P_Y1/0_AL	Overhead Line	47.0	230.0000				2.6			0.6			0.2			96.86	9765.8
RHNF3	GR152959	5561120	8.32KV_1P_Y1/0_AL	Overhead Line	53.5	230.0000				2.6			0.6			0.2			96.85	9819.2
RHNF3	GR152960	5557876	8.32KV_1P_Y1/0_AL	Overhead Line	68.8	230.0000				2.6			0.6			0.2			96.85	9888.0
RHNF3	GR152961	5557877	8.32KV_1P_Y1/0_AL	Overhead Line	66.8	230.0000				2.6			0.6			0.2			96.85	9954.8
RHNF3	GR152962	5511480	8.32KV_1P_Y1/0_AL	Overhead Line	69.0	230.0000				2.6			0.6			0.2			96.85	10023.8
RHNF3	GR152963	5557878	8.32KV_1P_Y1/0_AL	Overhead Line	48.0	230.0000				0.0			0.0			0.0			96.85	10071.8
RHNF3	GR152964	5507786	8.32KV_1P_Y1/0_AL	Overhead Line	54.6	230.0000				0.0			0.0			0.0			96.85	10126.3
RHNF3	GR152975	5560911	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000				2.6			0.6			0.2			96.90	8408.0
RHNF3	GR152976	11335964	8.32KV_1P_Y1/0_AL	Overhead Line	17.5	230.0000				2.6			0.6			0.2			96.90	8425.6
RHNF3	GR152977	5561089	8.32KV_1P_Y1/0_AL	Overhead Line	81.7	230.0000				2.6			0.6			0.2			96.90	8507.3
RHNF3	GR152978	5561091	8.32KV_1P_Y1/0_AL	Overhead Line	72.4	230.0000				2.6			0.6			0.2			96.90	8579.7
RHNF3	GR152987	5560885	8.32KV_1P_Y1/0_AL	Overhead Line	56.7	230.0000				18.8			4.0			1.8			96.95	8047.5
RHNF3	GR152988	5560886	8.32KV_1P_Y1/0_AL	Overhead Line	47.6	230.0000				19.7			4.2			1.8			96.95	8095.1
RHNF3	GR152989	5560887	8.32KV_1P_Y1/0_AL	Overhead Line	67.5	230.0000				20.9			4.5			2.0			96.95	8162.5
RHNF3	GR152991	5560888	8.32KV_1P_Y1/0_AL	Overhead Line	71.2	230.0000				20.9			4.5			2.0			96.96	8233.7
RHNF3	GR152992	5560889	8.32KV_1P_Y1/0_AL	Overhead Line	72.6	230.0000				22.3			4.8			2.1			96.97	8306.3
RHNF3	GR152993	5560890	8.32KV_1P_Y1/0_AL	Overhead Line	68.2	230.0000				24.0			5.1			2.2			96.97	8374.5
RHNF3	GR152994	5560891	8.32KV_1P_Y1/0_AL	Overhead Line	74.3	230.0000				27.6			5.9			2.6			96.98	8448.8
RHNF3	GR152995	5560892	8.32KV_1P_Y1/0_AL	Overhead Line	78.6	230.0000				27.6			5.9			2.6			96.99	8527.5
RHNF3	GR152996	5560893	8.32KV_1P_Y1/0_AL	Overhead Line	81.1	230.0000				27.6			5.9			2.6			97.00	8608.6
RHNF3	GR152997	5560894	8.32KV_1P_Y1/0_AL	Overhead Line	83.8	230.0000				28.4			6.1			2.7			97.01	8692.3
RHNF3	GR152998	5560895	8.32KV_1P_Y1/0_AL	Overhead Line	71.9	230.0000				28.4			6.1			2.7			97.02	8764.2
RHNF3	GR152999	5512480	8.32KV_1P_Y1/0_AL	Overhead Line	77.3	230.0000				28.4			6.1			2.7			97.03	8841.5
RHNF3	GR153000	5560896	8.32KV_1P_Y1/0_AL	Overhead Line	78.3	230.0000				28.4			6.1			2.7			97.03	8919.8
RHNF3	GR153001	5560897	8.32KV_1P_Y1/0_AL	Overhead Line	83.4	230.0000				28.4			6.1			2.7			97.04	9003.2
RHNF3	GR153002	5560898	8.32KV_1P_Y1/0_AL	Overhead Line	67.6	230.0000				30.5			6.5			2.8			97.05	9070.8
RHNF3	GR153003	5560899	8.32KV_1P_Y1/0_AL	Overhead Line	77.3	230.0000				32.6			7.0			3.0			97.06	9148.1
RHNF3	GR153004	5560900	8.32KV_1P_Y1/0_AL	Overhead Line	56.6	230.0000				32.6			7.0			3.0			97.07	9204.7
RHNF3	GR153005	5560901	8.32KV_1P_Y1/0_AL	Overhead Line	61.2	230.0000				32.6			7.0			3.0			97.08	9265.9
RHNF3	GR153006	5560902	8.32KV_1P_Y1/0_AL	Overhead Line	71.3	230.0000				32.6			7.0			3.0			97.09	9337.2
RHNF3	GR153007	5559255	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000				70.1			15.0			6.5			97.10	9380.3
RHNF3	GR153008	5559471	8.32KV_1P_Y1/0_AL	Overhead Line	68.4	230.0000				70.1			15.0			6.5			97.11	9448.6
RHNF3	GR153009	5559470	8.32KV_1P_Y1/0_AL	Overhead Line	71.3	230.0000				70.1			15.0			6.5			97.13	9519.9
RHNF3	GR153010	5559468	8.32KV_1P_Y1/0_AL	Overhead Line	71.1	230.0000				72.7			15.6			6.8			97.15	9591.0
RHNF3	GR153011	5559467	8.32KV_1P_Y1/0_AL	Overhead Line	60.4	230.0000				75.2			16.1			7.0			97.16	9651.4
RHNF3	GR153012	5559292	8.32KV_1P_Y1/0_AL	Overhead Line	70.5	230.0000				77.7			16.6			7.2			97.18	9721.9
RHNF3	GR153013	5559290	8.32KV_1P_Y1/0_AL	Overhead Line	81.5	230.0000				80.2			17.2			7.5			97.20	9803.4
RHNF3	GR153014	5560062	8.32KV_1P_Y1/0_AL	Overhead Line	37.9	230.0000				2.6			0.6			0.2			97.20	9841.3
RHNF3	GR153015	5560063	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000				2.6			0.6			0.2			97.20	9843.9
RHNF3	GR153016	11263652	8.32KV_1P_Y1/0_AL	Overhead Line	75.3	230.0000				2.6			0.6			0.2			97.20	9919.2
RHNF3	GR153023	5560064	8.32KV_1P_Y1/0_AL	Overhead Line	2.6	230.0000				2.6			0.6			0.2			97.15	9593.6
RHNF3	GR153024	11263667	8.32KV_1P_Y1/0_AL	Overhead Line	20.7	230.0000				2.6			0.6			0.2			97.15	9614.3
RHNF3	GR153025	5511512	8.32KV_1P_Y1/0_AL	Overhead Line	38.4	230.0000				2.6			0.6			0.2			97.14	9652.7
RHNF3	GR153030	5559256	8.32KV_1P_Y1/0_AL	Overhead Line	15.9	230.0000				40.6			8.7			3.8			97.08	9353.1
RHNF3	GR153031	5559257	8.32KV_1P_Y1/0_AL	Overhead Line	101.1	230.0000				38.0			8.2			3.5			97.07	9454.2
RHNF3	GR153032	5559275	8.32KV_1P_Y1/0_AL	Overhead Line	4.6	230.0000				38.0			8.2			3.5			97.07	9458.7
RHNF3	GR153033	18098592	8.32KV_1P_Y1/0_AL	Overhead Line	82.0	230.0000				38.0			8.2			3.5			97.06	9540.8
RHNF3	GR153034	5559713	8.32KV_1P_Y1/0_AL	Overhead Line	93.1	230.0000				38.0			8.2			3.5			97.05	9633.9
RHNF3	GR153035	5560116	8.32KV_1P_Y1/0_AL	Overhead Line	2.6	230.0000				35.5			7.6			3.3			97.05	9636.5
RHNF3	GR153036	18098577	8.32KV_1P_Y1/0_AL	Overhead Line	87.7	230.0000				35.5			7.6			3.3			97.05	9724.2
RHNF3	GR153037	5559533	8.32KV_1P_Y1/0_AL	Overhead Line	89.8	230.0000				35.5			7.6			3.3			97.04	9814.0
RHNF3	GR153038	5559535	8.32KV_1P_Y1/0_AL	Overhead Line	90.3	230.0000				35.5			7.6			3.3			97.03	9904.3
RHNF3	GR153039	5559536	8.32KV_1P_Y1/0_AL	Overhead Line	91.0	230.0000				35.5			7.6			3.3			97.02	9995.3
RHNF3	GR153040	5559714	8.32KV_1P_Y1/0_AL	Overhead Line	94.2	230.0000				35.5			7.6			3.3			97.01	10089.4
RHNF3	GR153041	5559715	8.32KV_1P_Y1/0_AL	Overhead Line	89.7	230.0000				32.9			7.1			3.1			97.00	10179.1
RHNF3	GR153042	5559716	8.32KV_1P_Y1/0_AL	Overhead Line	90.5	230.0000				32.9			7.1			3.1			97.00	10269.6

Feeder Id (PF)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR153043	5559749	8.32KV_1P_Y1/0_AL	Overhead Line	92.5	230.0000				32.9			7.1			3.1			96.99	10362.1
RHNF3	GR153044	5559750	8.32KV_1P_Y1/0_AL	Overhead Line	91.1	230.0000				32.9			7.1			3.1			96.98	10453.2
RHNF3	GR153045	5559751	8.32KV_1P_Y1/0_AL	Overhead Line	91.2	230.0000				32.9			7.1			3.1			96.97	10544.4
RHNF3	GR153046	5559711	8.32KV_1P_Y1/0_AL	Overhead Line	94.0	230.0000				32.9			7.1			3.1			96.96	10638.4
RHNF3	GR153047	5512674	8.32KV_1P_Y1/0_AL	Overhead Line	87.1	230.0000				32.9			7.1			3.1			96.96	10725.5
RHNF3	GR153048	5559920	8.32KV_1P_Y1/0_AL	Overhead Line	80.4	230.0000				32.9			7.1			3.1			96.95	10805.9
RHNF3	GR153049	5558724	8.32KV_1P_Y1/0_AL	Overhead Line	39.9	230.0000				19.0			4.1			1.8			96.95	10845.8
RHNF3	GR153050	5508232	8.32KV_1P_Y1/0_AL	Overhead Line	45.1	230.0000				18.0			3.9			1.7			96.94	10890.9
RHNF3	GR153051	5558725	8.32KV_1P_Y1/0_AL	Overhead Line	37.6	230.0000				18.0			3.9			1.7			96.94	10928.5
RHNF3	GR153052	5558727	8.32KV_1P_Y1/0_AL	Overhead Line	36.4	230.0000				18.0			3.9			1.7			96.94	10964.9
RHNF3	GR153053	5558728	8.32KV_1P_Y1/0_AL	Overhead Line	40.9	230.0000				15.4			3.3			1.4			96.94	11005.8
RHNF3	GR153054	5558730	8.32KV_1P_Y1/0_AL	Overhead Line	82.7	230.0000				15.4			3.3			1.4			96.94	11088.5
RHNF3	GR153055	5558731	8.32KV_1P_Y1/0_AL	Overhead Line	76.6	230.0000				12.8			2.8			1.2			96.93	11165.0
RHNF3	GR153056	5558732	8.32KV_1P_Y1/0_AL	Overhead Line	92.4	230.0000				12.8			2.8			1.2			96.93	11257.4
RHNF3	GR153057	5558733	8.32KV_1P_Y1/0_AL	Overhead Line	92.4	230.0000				12.8			2.8			1.2			96.93	11349.9
RHNF3	GR153058	5559933	8.32KV_1P_Y1/0_AL	Overhead Line	91.9	230.0000				12.8			2.8			1.2			96.92	11441.7
RHNF3	GR153059	5559934	8.32KV_1P_Y1/0_AL	Overhead Line	94.1	230.0000				12.8			2.8			1.2			96.92	11535.8
RHNF3	GR153060	5559935	8.32KV_1P_Y1/0_AL	Overhead Line	47.5	230.0000				12.8			2.8			1.2			96.92	11583.3
RHNF3	GR153061	11590408	8.32KV_1P_Y1/0_AL	Overhead Line	43.2	230.0000				7.7			1.7			0.7			96.92	11626.4
RHNF3	GR153062	5559936	8.32KV_1P_Y1/0_AL	Overhead Line	93.1	230.0000				7.7			1.7			0.7			96.92	11719.5
RHNF3	GR153063	5559937	8.32KV_1P_Y1/0_AL	Overhead Line	91.3	230.0000				7.7			1.7			0.7			96.91	11810.8
RHNF3	GR153064	5559938	8.32KV_1P_Y1/0_AL	Overhead Line	56.0	230.0000				7.7			1.7			0.7			96.91	11866.8
RHNF3	GR153065	12976897	8.32KV_1P_Y1/0_AL	Overhead Line	48.5	230.0000				5.1			1.1			0.5			96.91	11915.3
RHNF3	GR153066	19057632	8.32KV_1P_Y1/0_AL	Overhead Line	43.7	230.0000				2.6			0.6			0.2			96.91	11959.0
RHNF3	GR153067	19057641	8.32KV_1P_Y1/0_AL	Overhead Line	60.1	230.0000				2.6			0.6			0.2			96.91	12019.1
RHNF3	GR153072	5559939	8.32KV_1P_Y1/0_AL	Overhead Line	41.2	230.0000				2.6			0.6			0.2			96.91	11908.0
RHNF3	GR153075	11590481	8.32KV_1P_N1/0_AL	Overhead Line	3.5	230.0000				5.1			1.1			0.5			96.92	11586.7
RHNF3	GR153076	11590521	8.32KV_1P_N1/0_AL	Overhead Line	17.9	230.0000				5.1			1.1			0.5			96.92	11604.6
RHNF3	GR153077	11590489	8.32KV_1P_N1/0_AL	Overhead Line	82.3	230.0000				5.1			1.1			0.5			96.92	11686.9
RHNF3	GR153078	11590488	8.32KV_1P_N1/0_AL	Overhead Line	78.7	230.0000				5.1			1.1			0.5			96.92	11765.6
RHNF3	GR153079	11590487	8.32KV_1P_N1/0_AL	Overhead Line	71.7	230.0000				5.1			1.1			0.5			96.92	11837.3
RHNF3	GR153080	11590486	8.32KV_1P_N1/0_AL	Overhead Line	81.6	230.0000				5.1			1.1			0.5			96.91	11918.9
RHNF3	GR153081	11590485	8.32KV_1P_N1/0_AL	Overhead Line	79.1	230.0000				5.1			1.1			0.5			96.91	11997.9
RHNF3	GR153082	11590484	8.32KV_1P_N1/0_AL	Overhead Line	81.9	230.0000				5.1			1.1			0.5			96.91	12079.9
RHNF3	GR153091	5559519	8.32KV_1P_Y1/0_AL	Overhead Line	24.7	230.0000				13.9			3.0			1.3			96.95	10830.6
RHNF3	GR153092	5560122	8.32KV_1P_Y1/0_AL	Overhead Line	84.5	230.0000				13.9			3.0			1.3			96.94	10915.1
RHNF3	GR153093	5559344	8.32KV_1P_Y1/0_AL	Overhead Line	89.0	230.0000				11.3			2.4			1.1			96.94	11004.0
RHNF3	GR153094	5559345	8.32KV_1P_Y1/0_AL	Overhead Line	46.3	230.0000				11.3			2.4			1.1			96.94	11050.3
RHNF3	GR153095	5559499	8.32KV_1P_Y1/0_AL	Overhead Line	65.2	230.0000				10.3			2.2			1.0			96.94	11115.4
RHNF3	GR153096	5559500	8.32KV_1P_Y1/0_AL	Overhead Line	63.6	230.0000				10.3			2.2			1.0			96.94	11179.0
RHNF3	GR153097	5559501	8.32KV_1P_Y1/0_AL	Overhead Line	2.9	230.0000				1.5			0.3			0.1			96.94	11182.0
RHNF3	GR153098	11280008	8.32KV_1P_Y1/0_AL	Overhead Line	90.3	230.0000				1.5			0.3			0.1			96.94	11272.3
RHNF3	GR153099	5559502	8.32KV_1P_Y1/0_AL	Overhead Line	57.8	230.0000				0.0			0.0			0.0			96.94	11330.0
RHNF3	GR153102	5559503	8.32KV_1P_Y1/0_AL	Overhead Line	69.2	230.0000				8.7			1.9			0.8			96.94	11248.2
RHNF3	GR153103	5559504	8.32KV_1P_Y1/0_AL	Overhead Line	77.0	230.0000				6.2			1.3			0.6			96.93	11325.2
RHNF3	GR153104	5559521	8.32KV_1P_Y1/0_AL	Overhead Line	75.9	230.0000				6.2			1.3			0.6			96.93	11401.2
RHNF3	GR153105	5559522	8.32KV_1P_Y1/0_AL	Overhead Line	89.0	230.0000				3.6			0.8			0.3			96.93	11490.1
RHNF3	GR153106	5559523	8.32KV_1P_Y1/0_AL	Overhead Line	77.9	230.0000				3.6			0.8			0.3			96.93	11568.1
RHNF3	GR153107	5559524	8.32KV_1P_Y1/0_AL	Overhead Line	74.5	230.0000				2.6			0.6			0.2			96.93	11642.6
RHNF3	GR153124	5559276	8.32KV_1P_Y1/0_AL	Overhead Line	58.2	230.0000				2.6			0.6			0.2			97.08	9411.3
RHNF3	GR153125	5559277	8.32KV_1P_Y1/0_AL	Overhead Line	54.5	230.0000				2.6			0.6			0.2			97.08	9465.8
RHNF3	GR153128	5560903	8.32KV_1P_Y1/0_AL	Overhead Line	3.5	230.0000				2.6			0.6			0.2			97.05	9074.3
RHNF3	GR153129	11263690	8.32KV_1P_Y1/0_AL	Overhead Line	39.4	230.0000				2.6			0.6			0.2			97.05	9113.7
RHNF3	GR153130	5511478	8.32KV_1P_Y1/0_AL	Overhead Line	56.9	230.0000				2.6			0.6			0.2			97.05	9170.6
RHNF3	GR153135	5560904	8.32KV_1P_Y1/0_AL	Overhead Line	40.3	230.0000				1.0			0.2			0.1			97.00	8648.8
RHNF3	GR153140	5560908	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000				2.6			0.6			0.2			96.97	8309.0
RHNF3	GR153141	11336538	8.32KV_1P_Y1/0_AL	Overhead Line	64.0	230.0000				2.6			0.6			0.2			96.97	8373.0
RHNF3	GR153149	5560909	8.32KV_1P_Y1/0_AL	Overhead Line	16.6	230.0000				2.6			0.6			0.2			96.95	8064.1
RHNF3	GR153170	5560673	8.32KV_1P_Y1/0_AL	Overhead Line	2.9	230.0000				2.6			0.5			0.2			97.36	5537.0
RHNF3	GR153171	11276728	8.32KV_1P_Y1/0_AL	Overhead Line	13.6	230.0000				2.6			0.5			0.2			97.36	5550.5
RHNF3	GR153172	5511287	8.32KV_1P_Y1/0_AL	Overhead Line	72.0	230.0000				2.6			0.5			0.2			97.36	5622.6
RHNF3	GR153173	5559863	8.32KV_1P_Y1/0_AL	Overhead Line	61.6	230.0000				2.6			0.5			0.2			97.36	5684.1
RHNF3	GR153178	5560103	8.32KV_1P_Y1/0_AL	Overhead Line	3.2	230.0000		5.7			1.3			0.5			93.87				4631.6
RHNF3	GR153179	11276708	8.32KV_1P_Y1/0_AL	Overhead Line	20.4	230.0000		5.7			1.3			0.5			93.87				4652.1
RHNF3	GR153184	11276649	8.32KV_3P_N3/0_AL	Overhead Line	6.9	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.03	94.94	97.96	4091.8
RHNF3	GR153185	5561047	8.32KV_3P_Y3/0_AL	Overhead Line	34.0	270.0000		281.1	339.0	97.7	62.2	74.3	20.7	23.0	27.5	7.7	94.02	94.93	98.00	4040.0
RHNF3	GR153186	5561048	8.32KV_3P_Y3/0_AL	Overhead Line	31.6	270.0000		281.0	337.1	97.7	62.2	73.9	20.7	23.0	27.4	7.7	93.99	94.91	98.00	4071.6
RHNF3	GR153187	5561049	8.32KV_3P_Y3/0_AL	Overhead Line	70.7	270.0000		280.9	337.0	97.7	62.2	73.9	20.7	23.0	27.4	7.7	93.91	94.86	98.00	4142.2
RHNF3	GR153188	11341131	8.32KV_3P_Y3/0_AL	Overhead Line	36.3	270.0000		280.6	336.8	97.7	62.2	73.9	20.7	23.0	27.4	7.7	93.87	94.83	98.00	4178.5
RHNF3	GR153189	18196746	8.32KV_3P_N1/0_AL	Overhead Line	6.5	230.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.87	94.83	98.00	4185.0
RHNF3	GR153190	18996546	8.32KV_3P_Y3/0_AL	Overhead Line	3.9	270.0000		280.5	336.8	97.7	62.2	73.9	20.7	23.0	27.4	7.7	93.87	94.83	98.00	4182.4
RHNF3	GR153191	18996542	8.32KV_3P_Y3/0_AL	Overhead Line	4.0	270.0000		280.5	336.8	97.7	62.2	73.9	20.8	23.0	27.4	7.7	93.87	94.83	98.00	4186.4
RHNF3	GR153192	18196745	8.32KV_3P_N1/0_AL	Overhead Line	6.4	230.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.87	94.83	98.00	4192.9
RHNF3	GR153193	18996533	8.32KV_3P_Y3/0_AL	Overhead Line	59.0	270.0000		280.5	336.7	97.7	62.2	73.9	20.8	23.0	27.4	7.7	93.80	94.79	98.00	4245.4
RHNF3	GR153194	5561054	8.32KV_3P_Y3/0_AL	Overhead Line	103.0	270.0000		280.3	336.6	97.7	62.2	73.9	20.8	23.0	27.4	7.7	93.69	94.72	98.00	4348.5
RHNF3	GR153195	5561055	8.32KV_3P_Y3/0_AL	Overhead Line	68.8	270.0000		280.0	336.4	97.7	62.2	73.9	20.8	23.0	27.4	7.7	93.62	94.68	98.01	4417.2

Feeder Id (PF)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR153196	5561056	8.32KV_3P_Y3/0_AL	Overhead Line	71.7	270.0000		279.8	336.2	97.7	62.2	73.9	20.8	23.0	27.4	7.7	93.55	94.63	98.01	4488.9
RHNF3	GR153197	5561057	8.32KV_3P_Y3/0_AL	Overhead Line	68.3	270.0000		279.6	336.0	97.7	62.2	73.9	20.8	23.0	27.4	7.7	93.47	94.59	98.01	4557.2
RHNF3	GR153198	5509386	8.32KV_3P_Y3/0_AL	Overhead Line	74.1	270.0000		279.3	331.4	97.7	62.2	72.9	20.8	23.0	27.0	7.7	93.40	94.54	98.01	4631.3
RHNF3	GR153199	5511210	8.32KV_3P_Y3/0_AL	Overhead Line	26.7	270.0000		279.1	331.2	97.7	62.2	72.9	20.8	23.0	27.0	7.7	93.37	94.52	98.01	4658.0
RHNF3	GR153200	5511209	8.32KV_3P_Y3/0_AL	Overhead Line	38.0	270.0000		279.0	259.3	97.7	62.2	57.1	20.8	23.0	21.2	7.7	93.33	94.51	98.01	4696.0
RHNF3	GR153201	5511208	8.32KV_3P_Y3/0_AL	Overhead Line	70.0	270.0000		278.9	259.3	97.7	62.2	57.1	20.8	23.0	21.2	7.7	93.26	94.48	98.00	4766.0
RHNF3	GR153202	5509414	8.32KV_3P_N1/0_AL	Overhead Line	3.3	230.0000		27.4	27.4	27.4	6.1	6.0	5.8	2.7	2.6	2.5	93.26	94.48	98.00	4769.4
RHNF3	GR153207	5512623	8.32KV_3P_Y3/0_AL	Overhead Line	63.1	270.0000		251.7	232.3	70.6	56.2	51.2	15.0	20.8	19.0	5.6	93.20	94.46	98.00	4829.1
RHNF3	GR153208	5511213	8.32KV_3P_Y3/0_AL	Overhead Line	77.3	270.0000		249.3	232.3	70.6	55.7	51.2	15.0	20.6	19.0	5.6	93.13	94.43	97.99	4906.4
RHNF3	GR153209	5511215	8.32KV_3P_Y3/0_AL	Overhead Line	64.4	270.0000		246.8	232.2	70.6	55.2	51.2	15.0	20.4	19.0	5.6	93.08	94.41	97.99	4970.8
RHNF3	GR153210	5511216	8.32KV_3P_Y3/0_AL	Overhead Line	41.4	270.0000		246.7	232.2	70.6	55.2	51.2	15.0	20.4	19.0	5.6	93.04	94.39	97.99	5012.2
RHNF3	GR153211	5511391	8.32KV_1P_Y1/0_AL	Overhead Line	25.0	230.0000				5.1			1.1			0.5			97.99	5037.2
RHNF3	GR153217	5512781	8.32KV_3P_N1/0_AL	Overhead Line	2.9	230.0000		11.3	8.9	5.1	2.5	2.0	1.1	1.1	0.9	0.5	93.04	94.39	97.99	5015.0
RHNF3	GR153222	5513385	8.32KV_3P_Y3/0_AL	Overhead Line	38.3	270.0000		235.3	223.2	60.4	52.7	49.2	12.8	19.5	18.2	4.8	93.01	94.38	97.99	5050.4
RHNF3	GR153223	5511217	8.32KV_3P_Y3/0_AL	Overhead Line	37.3	270.0000		235.2	223.1	60.4	52.7	49.2	12.8	19.5	18.2	4.8	92.97	94.37	97.99	5087.7
RHNF3	GR153224	5511218	8.32KV_3P_Y3/0_AL	Overhead Line	39.1	270.0000		235.1	223.1	57.8	52.7	49.2	12.3	19.5	18.2	4.5	92.94	94.35	97.99	5126.8
RHNF3	GR153225	5511219	8.32KV_3P_Y3/0_AL	Overhead Line	95.5	270.0000		235.1	223.1	55.2	52.7	49.2	11.7	19.5	18.2	4.3	92.85	94.32	97.99	5222.3
RHNF3	GR153226	5512034	8.32KV_3P_Y3/0_AL	Overhead Line	86.0	270.0000		234.9	223.0	55.2	52.7	49.2	11.7	19.5	18.2	4.3	92.78	94.29	97.99	5308.3
RHNF3	GR153227	5511220	8.32KV_3P_Y3/0_AL	Overhead Line	78.2	270.0000		234.7	223.0	55.2	52.7	49.2	11.7	19.5	18.2	4.3	92.71	94.27	97.99	5386.5
RHNF3	GR153228	5511221	8.32KV_3P_Y3/0_AL	Overhead Line	34.9	270.0000		234.5	222.9	55.2	52.7	49.2	11.7	19.5	18.2	4.3	92.68	94.26	97.99	5421.4
RHNF3	GR153229	5511222	8.32KV_3P_Y3/0_AL	Overhead Line	16.7	270.0000		234.4	222.9	55.2	52.7	49.2	11.7	19.5	18.2	4.3	92.66	94.25	97.99	5438.0
RHNF3	GR153230	16477209	DEFAULT	Overhead Line	61.1	1000.0000		234.4	222.9	55.2	52.7	49.2	11.7	5.3	4.9	1.2	92.58	94.20	97.98	5499.2
RHNF3	GR153231	16365251	DEFAULT	Overhead Line	16.2	1000.0000		234.2	222.7	47.5	52.7	49.2	10.1	5.3	4.9	1.0	92.56	94.19	97.98	5515.3
RHNF3	GR153232	16365091	DEFAULT	Overhead Line	21.1	1000.0000		56.8	35.9	15.4	12.8	7.9	3.3	1.3	0.8	0.3	92.55	94.18	97.98	5536.4
RHNF3	GR153233	16365089	DEFAULT	Overhead Line	50.8	1000.0000		56.8	35.9	15.4	12.8	7.9	3.3	1.3	0.8	0.3	92.53	94.18	97.98	5587.2
RHNF3	GR153234	16365082	DEFAULT	Overhead Line	61.3	1000.0000		56.8	26.9	15.4	12.8	6.0	3.3	1.3	0.6	0.3	92.51	94.17	97.97	5648.5
RHNF3	GR153235	16365077	DEFAULT	Overhead Line	49.3	1000.0000		56.8	26.9	15.4	12.8	6.0	3.3	1.3	0.6	0.3	92.50	94.17	97.97	5697.8
RHNF3	GR153236	16365075	DEFAULT	Overhead Line	61.1	1000.0000		56.8	26.9	15.4	12.8	6.0	3.3	1.3	0.6	0.3	92.48	94.17	97.97	5758.9
RHNF3	GR153237	16365003	DEFAULT	Overhead Line	30.1	1000.0000		0.0	9.0	5.1	0.0	2.0	1.1	0.0	0.2	0.1	92.48	94.17	97.96	5789.0
RHNF3	GR153238	16365004	DEFAULT	Overhead Line	32.4	1000.0000		0.0	9.0	5.1	0.0	2.0	1.1	0.0	0.2	0.1	92.48	94.16	97.96	5821.4
RHNF3	GR153239	16365005	DEFAULT	Overhead Line	42.4	1000.0000		0.0	9.0	5.1	0.0	2.0	1.1	0.0	0.2	0.1	92.48	94.16	97.96	5863.8
RHNF3	GR153240	16477221	DEFAULT	Overhead Line	59.1	1000.0000		0.0	9.0	5.1	0.0	2.0	1.1	0.0	0.2	0.1	92.48	94.16	97.96	5922.9
RHNF3	GR153241	16364944	DEFAULT	Overhead Line	63.7	1000.0000		0.0	9.0	0.0	0.0	2.0	0.0	0.0	0.2	0.0	92.48	94.16	97.96	5986.6
RHNF3	GR153242	16364892	DEFAULT	Overhead Line	37.4	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.48	94.16	97.96	6024.1
RHNF3	GR153243	16364891	DEFAULT	Overhead Line	36.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.48	94.16	97.96	6060.1
RHNF3	GR153244	16364890	DEFAULT	Overhead Line	54.3	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.48	94.16	97.96	6114.4
RHNF3	GR153246	5559046	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000			9.0			2.0			0.9			94.15		6015.1
RHNF3	GR153253	5511631	8.32KV_3P_N1/0_AL	Overhead Line	5.7	230.0000		56.8	18.0	10.3	12.8	4.0	2.2	5.6	1.7	1.0	92.48	94.17	97.96	5764.6
RHNF3	GR153282	16365250	DEFAULT	Overhead Line	27.1	1000.0000		0.0	118.7	0.0	0.0	26.2	0.0	0.0	2.6	0.0	92.55	94.17	97.99	5542.4
RHNF3	GR153283	16368943	DEFAULT	Overhead Line	30.4	1000.0000			118.7			26.2			2.6			94.15		5572.8
RHNF3	GR153284	16361807	8.32KV_1P_Y1/0_AL	Overhead Line	65.0	230.0000			118.7			26.2			11.4			94.13		5637.8
RHNF3	GR153285	11240921	8.32KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000			118.7			26.2			11.4			94.13		5640.6
RHNF3	GR153286	5512832	8.32KV_1P_Y1/0_AL	Overhead Line	15.3	230.0000			118.7			26.2			11.4			94.12		5655.9
RHNF3	GR153287	5512833	8.32KV_1P_Y1/0_AL	Overhead Line	67.2	230.0000			114.2			25.3			11.0			94.10		5723.1
RHNF3	GR153288	5512834	8.32KV_1P_Y1/0_AL	Overhead Line	84.6	230.0000			114.2			25.3			11.0			94.07		5807.7
RHNF3	GR153289	5512977	8.32KV_1P_Y1/0_AL	Overhead Line	82.9	230.0000			114.1			25.3			11.0			94.05		5890.6
RHNF3	GR153290	5512978	8.32KV_1P_Y1/0_AL	Overhead Line	30.6	230.0000			114.1			25.3			11.0			94.04		5921.2
RHNF3	GR153291	5509618	8.32KV_1P_Y1/0_AL	Overhead Line	28.3	230.0000			64.7			14.3			6.2			94.03		5949.5
RHNF3	GR153292	5509619	8.32KV_1P_Y1/0_AL	Overhead Line	109.4	230.0000			62.9			13.9			6.1			94.02		6058.9
RHNF3	GR153293	5509620	8.32KV_1P_Y1/0_AL	Overhead Line	68.1	230.0000			62.9			13.9			6.1			94.00		6127.1
RHNF3	GR153294	5509621	8.32KV_1P_Y1/0_AL	Overhead Line	77.2	230.0000			53.9			11.9			5.2			93.99		6204.2
RHNF3	GR153295	5509622	8.32KV_1P_Y1/0_AL	Overhead Line	78.6	230.0000			53.9			11.9			5.2			93.98		6282.8
RHNF3	GR153296	5509624	8.32KV_1P_Y1/0_AL	Overhead Line	37.7	230.0000			53.9			11.9			5.2			93.98		6320.5
RHNF3	GR153297	5509625	8.32KV_1P_Y1/0_AL	Overhead Line	37.1	230.0000			9.0			2.0			0.9			93.98		6357.6
RHNF3	GR153298	5509626	8.32KV_1P_Y1/0_AL	Overhead Line	73.4	230.0000			9.0			2.0			0.9			93.97		6431.0
RHNF3	GR153299	5509627	8.32KV_1P_Y1/0_AL	Overhead Line	67.0	230.0000			9.0			2.0			0.9			93.97		6498.0
RHNF3	GR153300	5509628	8.32KV_1P_Y1/0_AL	Overhead Line	57.2	230.0000			4.5			1.0			0.4			93.97		6555.2
RHNF3	GR153301	5509214	8.32KV_1P_Y1/0_AL	Overhead Line	58.9	230.0000			4.5			1.0			0.4			93.97		6614.1
RHNF3	GR153306	5510697	8.32KV_1P_Y1/0_AL	Overhead Line	5.8	230.0000			44.9			9.9			4.3			93.98		6326.3
RHNF3	GR153333	5511595	8.32KV_1P_Y1/0_AL	Overhead Line	6.0	230.0000			49.4			10.9			4.8			94.04		5927.2
RHNF3	GR153358	16477204	DEFAULT	Overhead Line	17.0	1000.0000		177.3	68.1	32.1	39.9	15.0	6.8	4.0	1.5	0.7	92.54	94.18	97.98	5532.3
RHNF3	GR153359	16365146	DEFAULT	Overhead Line	39.7	1000.0000		177.3	68.1	32.1	39.9	15.0	6.8	4.0	1.5	0.7	92.50	94.18	97.97	5572.0
RHNF3	GR153360	5511225	8.32KV_3P_Y3/0_AL	Overhead Line	53.8	270.0000		177.2	68.1	29.5	39.9	15.0	6.3	14.8	5.6	2.3	92.47	94.18	97.97	5625.8
RHNF3	GR153361	5509631	8.32KV_3P_Y1/0_AL	Overhead Line	3.6	230.0000		22.7	18.0	10.3	5.1	4.0	2.2	2.2	1.7	1.0	92.47	94.18	97.97	5629.4
RHNF3	GR153388	5511226	8.32KV_3P_Y3/0_AL	Overhead Line	47.3	270.0000		154.4	50.1	19.2	34.8	11.1	4.1	12.9	4.1	1.5	92.44	94.19	97.96	5673.0
RHNF3	GR153389	5511227	8.32KV_3P_Y3/0_AL	Overhead Line	63.3	270.0000		148.8	45.6	16.7	33.5	10.1	3.5	12.4	3.7	1.3	92.41	94.20	97.95	5736.3
RHNF3	GR153390	18100976	8.32KV_3P_Y3/0_AL	Overhead Line	9.9	270.0000		148.7	45.6	16.7	33.5	10.1	3.5	12.4	3.7	1.3	92.41	94.20	97.95	5746.2
RHNF3	GR153391	11241232	8.32KV_3P_Y3/0_AL	Overhead Line	5.5	270.0000		148.7	45.6	16.7	33.5	10.1	3.5	12.4	3.7	1.3	92.40	94.20	97.95	5751.6
RHNF3	GR153392	5511228	8.32KV_3P_Y3/0_AL	Overhead Line	38.8	270.0000		148.7	45.6	14.1	33.5	10.1	3.0	12.4	3.7	1.1	92.39	94.20	97.95	5790.4
RHNF3	GR153393	18100980	8.32KV_3P_Y3/0_AL	Overhead Line	39.5	270.0000		148.7	45.6	14.1	33.5	10.1	3.0	12.4	3.7	1.1	92.37	94.21	97.94	5830.0
RHNF3	GR153394	5511229	8.32KV_3P_Y556_AL	Overhead Line	63.5	530.0000		148.6	45.6	14.1	33.5	10.1	3.0	6.3	1.9	0.6	92.35	94.22	97.94	5893.4
RHNF3	GR153395	5511230	8.32KV_3P_Y556_AL	Overhead Line	81.1	530.0000		148.6	45.6	14.1	33.5	10.1	3.0	6.3	1.9	0.6	92.32	94.23	97.93	5974.5
RHNF3	GR153396	5511231	8.32KV_3P_Y556_AL	Overhead Line	86.8	530.0000		148.6	36.7	14.1	33.5	8.1	3.0	6.3	1.5	0.6	92.30	94.24	97.92	6061.3
RHNF3	GR153397	5511368	8.32KV_3P_Y556_AL	Overhead Line	43.2	530.0000		148.5	32.2	14.1	33.5	7.1	3.0	6.3	1.3	0.6	92.28	94.25	97.91	6104.5
RHNF3	GR153398	5512165	8.32KV_3P_Y556_AL	Overhead Line	44.5	530.0000		148.5	32.2	14.1	33.5	7.1	3.0	6.3	1.3	0.6	92.27	94.26	97.91	6149.0
RHNF3	GR153399	5512166	8.32KV_3P_Y556_AL	Overhead Line	46.7	530.0000		148.5	32.2	14.1	33.5	7.1	3.0	6.3	1.3	0.6	92.26	94.27	97.90	6195.7

Feeder Id (PF)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR153400	5508122	8.32KV_1P_Y1/0_AL	Overhead Line	18.3	230.0000			9.0			2.0			0.9			94.27		6214.0
RHNF3	GR153401	5511632	8.32KV_1P_Y1/0_AL	Overhead Line	45.6	230.0000			0.0			0.0			0.0			94.27		6259.6
RHNF3	GR153402	5511633	8.32KV_1P_Y1/0_AL	Overhead Line	36.6	230.0000			0.0			0.0			0.0			94.27		6250.6
RHNF3	GR153405	5512167	8.32KV_3P_Y556_AL	Overhead Line	36.7	530.0000		148.5	23.2	14.1	33.5	5.1	3.0	6.3	1.0	0.6	92.25	94.28	97.90	6232.3
RHNF3	GR153406	5512168	8.32KV_3P_Y556_AL	Overhead Line	54.3	530.0000		148.5	23.2	14.1	33.5	5.1	3.0	6.3	1.0	0.6	92.23	94.29	97.89	6286.7
RHNF3	GR153407	5512169	8.32KV_3P_Y556_AL	Overhead Line	38.2	530.0000		148.4	23.2	14.1	33.5	5.1	3.0	6.3	1.0	0.6	92.22	94.29	97.89	6324.8
RHNF3	GR153408	11430579	8.32KV_3P_Y556_AL	Overhead Line	45.7	530.0000		148.4	23.2	14.1	33.5	5.1	3.0	6.3	1.0	0.6	92.21	94.30	97.88	6370.5
RHNF3	GR153409	11430589	8.32KV_3P_Y556_AL	Overhead Line	38.8	530.0000		148.4	23.2	14.1	33.5	5.1	3.0	6.3	1.0	0.6	92.20	94.31	97.88	6409.3
RHNF3	GR153410	16464835	DEFAULT	Overhead Line	20.5	1000.0000		148.4	23.3	14.1	33.5	5.1	3.0	3.4	0.5	0.3	92.18	94.31	97.87	6429.7
RHNF3	GR153411	5512170	8.32KV_3P_Y556_AL	Overhead Line	53.6	530.0000		148.4	23.3	14.1	33.5	5.1	3.0	6.3	1.0	0.6	92.17	94.32	97.86	6483.3
RHNF3	GR153412	11357717	8.32KV_3P_Y556_AL	Overhead Line	32.5	530.0000		148.3	23.3	14.1	33.5	5.1	3.0	6.3	1.0	0.6	92.16	94.33	97.86	6515.8
RHNF3	GR153413	11357702	8.32KV_3P_Y556_AL	Overhead Line	52.1	530.0000		148.3	23.3	14.1	33.5	5.1	3.0	6.3	1.0	0.6	92.14	94.34	97.85	6567.9
RHNF3	GR153414	5512172	8.32KV_3P_Y556_AL	Overhead Line	69.5	530.0000		148.3	23.3	14.1	33.5	5.1	3.0	6.3	1.0	0.6	92.12	94.35	97.84	6637.4
RHNF3	GR153415	5511445	8.32KV_3P_Y3/0_AL	Overhead Line	79.5	270.0000		148.3	23.3	6.4	33.5	5.1	1.4	12.4	1.9	0.5	92.08	94.37	97.83	6716.8
RHNF3	GR153416	5511444	8.32KV_3P_Y3/0_AL	Overhead Line	39.5	270.0000		148.2	23.3	6.4	33.5	5.1	1.4	12.4	1.9	0.5	92.06	94.37	97.83	6756.3
RHNF3	GR153417	5511443	8.32KV_3P_Y3/0_AL	Overhead Line	34.9	270.0000		148.2	23.3	6.4	33.5	5.1	1.4	12.4	1.9	0.5	92.05	94.38	97.83	6791.3
RHNF3	GR153418	5511442	8.32KV_3P_Y3/0_AL	Overhead Line	51.5	270.0000		148.1	23.3	6.4	33.5	5.1	1.4	12.4	1.9	0.5	92.02	94.39	97.82	6842.7
RHNF3	GR153419	5511441	8.32KV_3P_Y3/0_AL	Overhead Line	68.5	270.0000		148.1	23.3	6.4	33.5	5.1	1.4	12.4	1.9	0.5	91.99	94.40	97.81	6911.2
RHNF3	GR153420	5509433	8.32KV_3P_Y3/0_AL	Overhead Line	39.4	270.0000		148.1	23.3	2.6	33.5	5.1	0.5	12.4	1.9	0.2	91.97	94.41	97.81	6950.6
RHNF3	GR153421	5511452	8.32KV_3P_Y3/0_AL	Overhead Line	81.5	270.0000		148.0	23.3	2.6	33.5	5.1	0.5	12.4	1.9	0.2	91.93	94.43	97.80	7032.0
RHNF3	GR153422	5512927	8.32KV_3P_Y3/0_AL	Overhead Line	30.8	270.0000		148.0	23.3	2.6	33.5	5.1	0.5	12.4	1.9	0.2	91.91	94.43	97.80	7062.8
RHNF3	GR153423	18100964	8.32KV_3P_Y3/0_AL	Overhead Line	30.8	270.0000		147.9	23.3	2.6	33.5	5.1	0.5	12.4	1.9	0.2	91.90	94.44	97.79	7093.7
RHNF3	GR153424	5510006	8.32KV_3P_Y3/0_AL	Overhead Line	27.7	270.0000		147.9	23.3	2.6	33.5	5.1	0.5	12.4	1.9	0.2	91.88	94.44	97.79	7121.4
RHNF3	GR153425	5512929	8.32KV_3P_Y3/0_AL	Overhead Line	15.4	270.0000		147.9	23.3	2.6	33.5	5.1	0.5	12.4	1.9	0.2	91.88	94.45	97.79	7136.7
RHNF3	GR153426	5511155	8.32KV_3P_Y1/0_AL	Overhead Line	4.6	230.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.88	94.45	97.79	7141.3
RHNF3	GR153427	5511156	8.32KV_3P_Y556_AL	Overhead Line	28.7	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.88	94.45	97.79	7170.0
RHNF3	GR153428	5511157	8.32KV_3P_Y556_AL	Overhead Line	58.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.88	94.45	97.79	7228.2
RHNF3	GR153429	5511158	8.32KV_3P_Y556_AL	Overhead Line	60.2	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.88	94.45	97.79	7288.4
RHNF3	GR153430	5511159	8.32KV_3P_Y556_AL	Overhead Line	40.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.88	94.45	97.79	7328.4
RHNF3	GR153431	5511160	8.32KV_3P_Y556_AL	Overhead Line	40.4	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.88	94.45	97.79	7368.8
RHNF3	GR153432	5513219	8.32KV_3P_Y556_AL	Overhead Line	35.8	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.88	94.45	97.79	7177.1
RHNF3	GR153433	5512931	8.32KV_3P_Y3/0_AL	Overhead Line	42.3	270.0000		147.9	23.3	2.6	33.5	5.1	0.5	12.4	1.9	0.2	91.85	94.46	97.78	7179.0
RHNF3	GR153434	18098488	8.32KV_3P_Y3/0_AL	Overhead Line	3.6	270.0000		147.8	23.3	2.6	33.5	5.1	0.5	12.4	1.9	0.2	91.85	94.46	97.78	7182.7
RHNF3	GR153435	5511437	8.32KV_3P_Y3/0_AL	Overhead Line	81.5	270.0000		147.8	23.3	2.6	33.5	5.1	0.5	12.4	1.9	0.2	91.81	94.47	97.77	7264.1
RHNF3	GR153436	5509116	8.32KV_3P_Y3/0_AL	Overhead Line	58.9	270.0000		147.8	18.8	2.6	33.5	4.1	0.5	12.4	1.5	0.2	91.78	94.48	97.77	7323.0
RHNF3	GR153437	5508307	8.32KV_3P_Y3/0_AL	Overhead Line	17.5	270.0000		147.7	18.8	2.6	33.5	4.1	0.5	12.4	1.5	0.2	91.77	94.49	97.77	7340.6
RHNF3	GR153438	18100581	8.32KV_3P_Y3/0_AL	Overhead Line	3.8	270.0000		147.7	18.8	2.6	33.5	4.1	0.5	12.4	1.5	0.2	91.77	94.49	97.77	7344.4
RHNF3	GR153439	5508308	8.32KV_3P_Y3/0_AL	Overhead Line	60.4	270.0000		147.7	14.3	2.6	33.5	3.2	0.5	12.4	1.2	0.2	91.74	94.50	97.76	7404.8
RHNF3	GR153440	5509919	8.32KV_3P_Y3/0_AL	Overhead Line	54.2	270.0000		147.7	11.7	2.6	33.5	2.6	0.5	12.4	1.0	0.2	91.72	94.51	97.75	7459.0
RHNF3	GR153441	5509920	8.32KV_3P_Y3/0_AL	Overhead Line	60.8	270.0000		147.6	11.7	0.0	33.5	2.6	0.0	12.4	1.0	0.0	91.69	94.53	97.74	7519.8
RHNF3	GR153442	5509516	8.32KV_1P_N1/0_AL	Overhead Line	4.4	230.0000		39.7			9.0			3.9			91.69			7524.1
RHNF3	GR153444	5509576	8.32KV_1P_Y1/0_AL	Overhead Line	21.1	230.0000		39.7			9.0			3.9			91.68			7591.9
RHNF3	GR153445	5508001	8.32KV_1P_Y1/0_AL	Overhead Line	48.2	230.0000		11.3			2.6			1.1			91.68			7640.1
RHNF3	GR153446	5508000	8.32KV_1P_Y1/0_AL	Overhead Line	48.4	230.0000		11.3			2.6			1.1			91.67			7688.5
RHNF3	GR153447	5507999	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000		11.3			2.6			1.1			91.67			7731.6
RHNF3	GR153450	5508002	8.32KV_1P_Y1/0_AL	Overhead Line	40.4	230.0000		28.4			6.4			2.8			91.67			7632.4
RHNF3	GR153451	5508003	8.32KV_1P_Y1/0_AL	Overhead Line	57.8	230.0000		17.0			3.9			1.7			91.67			7690.1
RHNF3	GR153452	5508004	8.32KV_1P_Y1/0_AL	Overhead Line	32.7	230.0000		17.0			3.9			1.7			91.67			7722.9
RHNF3	GR153453	5508005	8.32KV_1P_Y1/0_AL	Overhead Line	36.3	230.0000		17.0			3.9			1.7			91.67			7759.2
RHNF3	GR153454	5508006	8.32KV_1P_Y1/0_AL	Overhead Line	30.2	230.0000		0.0			0.0			0.0			91.67			7789.4
RHNF3	GR153459	5509921	8.32KV_3P_Y3/0_AL	Overhead Line	71.2	270.0000		107.9	9.0	0.0	24.5	2.0	0.0	9.1	0.7	0.0	91.66	94.54	97.74	7591.0
RHNF3	GR153460	5508306	8.32KV_1P_Y1/0_AL	Overhead Line	21.7	230.0000		90.8			20.6			9.0			91.65			7612.7
RHNF3	GR153461	5508305	8.32KV_1P_Y1/0_AL	Overhead Line	27.7	230.0000		90.8			20.6			9.0			91.65			7640.4
RHNF3	GR153462	5508304	8.32KV_1P_Y1/0_AL	Overhead Line	34.8	230.0000		90.8			20.6			9.0			91.64			7675.2
RHNF3	GR153463	5508303	8.32KV_1P_Y1/0_AL	Overhead Line	41.6	230.0000		85.1			19.3			8.4			91.63			7716.8
RHNF3	GR153464	5508302	8.32KV_1P_Y1/0_AL	Overhead Line	17.0	230.0000		79.4			18.0			7.8			91.62			7733.8
RHNF3	GR153465	5507878	8.32KV_1P_Y1/0_AL	Overhead Line	40.0	230.0000		34.0			7.7			3.4			91.62			7773.8
RHNF3	GR153466	5512866	8.32KV_1P_Y1/0_AL	Overhead Line	37.8	230.0000		34.0			7.7			3.4			91.62			7811.6
RHNF3	GR153467	5507877	8.32KV_1P_Y1/0_AL	Overhead Line	35.1	230.0000		22.7			5.2			2.2			91.62			7846.7
RHNF3	GR153468	5507876	8.32KV_1P_Y1/0_AL	Overhead Line	26.3	230.0000		22.7			5.2			2.2			91.61			7873.0
RHNF3	GR153469	5507875	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000		22.7			5.2			2.2			91.61			7901.5
RHNF3	GR153470	5507874	8.32KV_1P_Y1/0_AL	Overhead Line	27.8	230.0000		22.7			5.2			2.2			91.61			7929.3
RHNF3	GR153471	5507873	8.32KV_1P_Y1/0_AL	Overhead Line	27.6	230.0000		22.7			5.2			2.2			91.61			7956.9
RHNF3	GR153472	5507872	8.32KV_1P_Y1/0_AL	Overhead Line	29.5	230.0000		17.0			3.9			1.7			91.61			7986.4
RHNF3	GR153473	5507871	8.32KV_1P_Y1/0_AL	Overhead Line	30.0	230.0000		17.0			3.9			1.7			91.61			8016.4
RHNF3	GR153474	5507870	8.32KV_1P_Y1/0_AL	Overhead Line	29.8	230.0000		17.0			3.9			1.7			91.60			8046.2
RHNF3	GR153475	5559029	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000		17.0			3.9			1.7			91.60			8074.7
RHNF3	GR153476	5507882	8.32KV_1P_Y1/0_AL	Overhead Line	32.3	230.0000		0.0			0.0			0.0			91.60			8107.0
RHNF3	GR153477	5507883	8.32KV_1P_Y1/0_AL	Overhead Line	30.4	230.0000		0.0			0.0			0.0			91.60			8137.4
RHNF3	GR153484	5508291	8.32KV_1P_Y1/0_AL	Overhead Line	25.2	230.0000		45.4			10.3			4.5			91.62			7759.0
RHNF3	GR153485	14631701	8.32KV_1P_Y1/0_AL	Overhead Line	29.9	230.0000		34.0			7.7			3.4			91.62			7788.9
RHNF3	GR153486	5508292	8.32KV_1P_Y1/0_AL	Overhead Line	39.0	230.0000		34.0			7.7			3.4			91.61			7827.9
RHNF3	GR153487	5507881	8.32KV_1P_Y1/0_AL	Overhead Line	37.9	230.0000		11.3			2.6			1.1			91.61			7865.8
RHNF3	GR153488	5511706	8.32KV_1P_Y1/0_AL	Overhead Line	50.2	230.0000		11.3			2.6			1.1			91.61			7915.9
RHNF3	GR153489	5507880	8.32KV_1P_Y1/0_AL	Overhead Line	43.9	230.0000		0.0			0.0			0.0			91.61			7959.8
RHNF3	GR153490	5507879	8.32KV_1P_Y1/0_AL	Overhead Line	55.5	230.0000		0.0			0.0			0.0			91.61			8015.3

Feeder Id (PF)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR153493	5508293	8.32KV_1P_Y1/0_AL	Overhead Line	15.4	230.0000		22.7			5.2			2.2			91.61			7843.3
RHNF3	GR153494	5508294	8.32KV_1P_Y1/0_AL	Overhead Line	17.9	230.0000		22.7			5.2			2.2			91.61			7861.1
RHNF3	GR153495	5508295	8.32KV_1P_Y1/0_AL	Overhead Line	48.1	230.0000		11.3			2.6			1.1			91.61			7909.2
RHNF3	GR153496	5508296	8.32KV_1P_Y1/0_AL	Overhead Line	31.6	230.0000		11.3			2.6			1.1			91.61			7940.8
RHNF3	GR153497	5508297	8.32KV_1P_Y1/0_AL	Overhead Line	29.4	230.0000		11.3			2.6			1.1			91.61			7970.2
RHNF3	GR153498	5508298	8.32KV_1P_Y1/0_AL	Overhead Line	25.4	230.0000		11.3			2.6			1.1			91.61			7995.6
RHNF3	GR153499	5508299	8.32KV_1P_Y1/0_AL	Overhead Line	27.3	230.0000		11.3			2.6			1.1			91.61			8022.9
RHNF3	GR153500	5508300	8.32KV_1P_Y1/0_AL	Overhead Line	23.8	230.0000		11.3			2.6			1.1			91.61			8046.6
RHNF3	GR153501	5507729	8.32KV_1P_Y1/0_AL	Overhead Line	34.6	230.0000		0.0			0.0			0.0			91.61			8081.3
RHNF3	GR153502	5508301	8.32KV_1P_Y1/0_AL	Overhead Line	30.9	230.0000		0.0			0.0			0.0			91.61			8077.6
RHNF3	GR153503	5512870	8.32KV_1P_Y1/0_AL	Overhead Line	37.3	230.0000		0.0			0.0			0.0			91.61			8114.9
RHNF3	GR153510	5512814	8.32KV_1P_Y1/0_AL	Overhead Line	20.0	230.0000		5.7			1.3			0.6			91.63			7736.8
RHNF3	GR153511	5512812	8.32KV_1P_Y1/0_AL	Overhead Line	29.6	230.0000		5.7			1.3			0.6			91.63			7766.4
RHNF3	GR153512	5559759	8.32KV_1P_Y1/0_AL	Overhead Line	31.8	230.0000		5.7			1.3			0.6			91.63			7798.2
RHNF3	GR153513	5559391	8.32KV_1P_Y1/0_AL	Overhead Line	35.2	230.0000		5.7			1.3			0.6			91.63			7833.4
RHNF3	GR153518	5509922	8.32KV_3P_Y3/0_AL	Overhead Line	25.4	270.0000		17.0	9.0	0.0	3.9	2.0	0.0	1.4	0.7	0.0	91.66	94.54	97.74	7616.4
RHNF3	GR153519	18100996	8.32KV_3P_Y3/0_AL	Overhead Line	5.0	270.0000		17.0	9.0	0.0	3.9	2.0	0.0	1.4	0.7	0.0	91.66	94.54	97.74	7621.4
RHNF3	GR153520	5509923	8.32KV_3P_Y3/0_AL	Overhead Line	30.5	270.0000		17.0	9.0	0.0	3.9	2.0	0.0	1.4	0.7	0.0	91.66	94.54	97.74	7651.9
RHNF3	GR153521	5509924	8.32KV_3P_Y3/0_AL	Overhead Line	28.9	270.0000		0.0	9.0	0.0	0.0	2.0	0.0	0.0	0.7	0.0	91.66	94.54	97.74	7680.8
RHNF3	GR153522	18101000	8.32KV_3P_Y3/0_AL	Overhead Line	2.6	270.0000		0.0	9.0	0.0	0.0	2.0	0.0	0.0	0.7	0.0	91.66	94.54	97.74	7683.4
RHNF3	GR153523	5509925	8.32KV_3P_Y3/0_AL	Overhead Line	4.0	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.66	94.54	97.74	7687.4
RHNF3	GR153524	18100998	8.32KV_3P_Y3/0_AL	Overhead Line	28.7	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.66	94.54	97.74	7716.1
RHNF3	GR153525	5510648	8.32KV_3P_Y3/0_AL	Overhead Line	41.2	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.66	94.54	97.74	7757.3
RHNF3	GR153528	5511439	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000		17.0			3.9			1.7			91.66			7654.6
RHNF3	GR153543	5511451	8.32KV_1P_Y1/0_AL	Overhead Line	17.2	230.0000				3.9			0.8			0.4			97.81	6928.3
RHNF3	GR153562	5511790	8.32KV_1P_Y1/0_AL	Overhead Line	4.4	230.0000				2.6			0.5			0.2			97.99	5131.1
RHNF3	GR153563	11241245	8.32KV_1P_Y1/0_AL	Overhead Line	59.4	230.0000				2.6			0.5			0.2			97.99	5190.5
RHNF3	GR153568	5511792	8.32KV_1P_Y1/0_AL	Overhead Line	4.2	230.0000		2.3			0.5			0.2			93.13			4910.5
RHNF3	GR153569	11241283	8.32KV_1P_Y1/0_AL	Overhead Line	14.9	230.0000		2.3			0.5			0.2			93.13			4925.4
RHNF3	GR153570	5511793	8.32KV_1P_Y1/0_AL	Overhead Line	71.5	230.0000		2.3			0.5			0.2			93.13			4996.9
RHNF3	GR153571	5511794	8.32KV_1P_Y1/0_AL	Overhead Line	58.6	230.0000		2.3			0.5			0.2			93.13			5055.5
RHNF3	GR153576	5511211	8.32KV_1P_Y1/0_AL	Overhead Line	20.0	230.0000			71.9			15.8			6.9			94.52		4678.0
RHNF3	GR153577	5511212	8.32KV_1P_Y1/0_AL	Overhead Line	17.2	230.0000			71.9			15.8			6.9			94.52		4695.3
RHNF3	GR153608	5512442	8.32KV_1P_Y1/0_AL	Overhead Line	17.6	230.0000				116.2			24.6			10.7			98.33	2675.4
RHNF3	GR153609	5558652	8.32KV_1P_Y1/0_AL	Overhead Line	38.4	230.0000				116.2			24.6			10.7			98.31	2713.8
RHNF3	GR153610	11340740	8.32KV_1P_Y1/0_AL	Overhead Line	9.6	230.0000				0.0			0.0			0.0			98.31	2723.5
RHNF3	GR153611	18081743	8.32KV_1P_Y1/0_AL	Overhead Line	3.2	230.0000				116.2			24.6			10.7			98.31	2717.0
RHNF3	GR153612	11340738	8.32KV_1P_Y1/0_AL	Overhead Line	6.9	230.0000				116.2			24.6			10.7			98.31	2724.0
RHNF3	GR153613	5558653	8.32KV_1P_Y1/0_AL	Overhead Line	4.0	230.0000				116.2			24.6			10.7			98.31	2728.0
RHNF3	GR153614	11340736	8.32KV_1P_Y1/0_AL	Overhead Line	9.8	230.0000				0.0			0.0			0.0			98.31	2737.8
RHNF3	GR153615	11340737	8.32KV_1P_Y1/0_AL	Overhead Line	76.5	230.0000				116.2			24.6			10.7			98.28	2804.4
RHNF3	GR153616	5558655	8.32KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000				116.1			24.6			10.7			98.26	2870.5
RHNF3	GR153617	5558654	8.32KV_1P_Y1/0_AL	Overhead Line	69.2	230.0000				116.1			24.6			10.7			98.23	2939.7
RHNF3	GR153618	5558656	8.32KV_1P_Y1/0_AL	Overhead Line	67.8	230.0000				116.1			24.6			10.7			98.21	3007.6
RHNF3	GR153619	5558658	8.32KV_1P_Y1/0_AL	Overhead Line	68.2	230.0000				116.1			24.6			10.7			98.18	3075.7
RHNF3	GR153620	5558659	8.32KV_1P_Y1/0_AL	Overhead Line	69.2	230.0000				116.0			24.6			10.7			98.16	3144.9
RHNF3	GR153621	5559053	8.32KV_1P_Y1/0_AL	Overhead Line	66.6	230.0000				116.0			24.6			10.7			98.14	3211.6
RHNF3	GR153622	5559052	8.32KV_1P_Y1/0_AL	Overhead Line	66.4	230.0000				116.0			24.6			10.7			98.11	3277.9
RHNF3	GR153623	5511269	8.32KV_1P_Y1/0_AL	Overhead Line	78.8	230.0000				116.0			24.6			10.7			98.08	3356.8
RHNF3	GR153624	5559054	8.32KV_1P_Y1/0_AL	Overhead Line	80.2	230.0000				115.9			24.6			10.7			98.05	3437.0
RHNF3	GR153625	5559055	8.32KV_1P_Y1/0_AL	Overhead Line	79.3	230.0000				115.9			24.6			10.7			98.03	3516.2
RHNF3	GR153626	5559056	8.32KV_1P_Y1/0_AL	Overhead Line	80.2	230.0000				115.9			24.6			10.7			98.00	3596.4
RHNF3	GR153627	5559057	8.32KV_1P_Y1/0_AL	Overhead Line	76.9	230.0000				115.8			24.6			10.7			97.97	3673.3
RHNF3	GR153628	5559058	8.32KV_1P_Y1/0_AL	Overhead Line	76.4	230.0000				115.8			24.6			10.7			97.94	3749.7
RHNF3	GR153629	5559059	8.32KV_1P_Y1/0_AL	Overhead Line	84.5	230.0000				115.8			24.6			10.7			97.91	3834.1
RHNF3	GR153630	5559060	8.32KV_1P_Y1/0_AL	Overhead Line	81.4	230.0000				115.7			24.6			10.7			97.88	3915.5
RHNF3	GR153631	5559061	8.32KV_1P_Y1/0_AL	Overhead Line	85.4	230.0000				115.7			24.6			10.7			97.85	4000.9
RHNF3	GR153632	5559062	8.32KV_1P_Y1/0_AL	Overhead Line	85.0	230.0000				115.7			24.6			10.7			97.82	4085.9
RHNF3	GR153633	5513581	8.32KV_1P_Y1/0_AL	Overhead Line	79.9	230.0000				114.1			24.3			10.6			97.79	4165.9
RHNF3	GR153634	5559063	8.32KV_1P_Y1/0_AL	Overhead Line	84.9	230.0000				114.1			24.3			10.6			97.76	4250.8
RHNF3	GR153635	5558876	8.32KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000				2.6			0.5			0.2			97.76	4253.5
RHNF3	GR153636	11281736	8.32KV_1P_Y1/0_AL	Overhead Line	63.3	230.0000				2.6			0.5			0.2			97.76	4316.8
RHNF3	GR153637	5558877	8.32KV_1P_Y1/0_AL	Overhead Line	66.9	230.0000				2.6			0.5			0.2			97.76	4383.7
RHNF3	GR153640	5559069	8.32KV_1P_Y1/0_AL	Overhead Line	78.1	230.0000				111.5			23.7			10.3			97.74	4328.9
RHNF3	GR153641	5511270	8.32KV_1P_Y1/0_AL	Overhead Line	72.2	230.0000				111.5			23.7			10.3			97.71	4401.0
RHNF3	GR153642	5559070	8.32KV_1P_Y1/0_AL	Overhead Line	85.4	230.0000				109.9			23.4			10.2			97.68	4486.4
RHNF3	GR153643	5559071	8.32KV_1P_Y1/0_AL	Overhead Line	86.7	230.0000				109.9			23.4			10.2			97.65	4573.0
RHNF3	GR153644	5559072	8.32KV_1P_Y1/0_AL	Overhead Line	80.5	230.0000				109.9			23.4			10.2			97.62	4653.6
RHNF3	GR153645	5559073	8.32KV_1P_Y1/0_AL	Overhead Line	62.1	230.0000				109.9			23.4			10.2			97.60	4715.7
RHNF3	GR153646	5559074	8.32KV_1P_Y1/0_AL	Overhead Line	62.2	230.0000				109.8			23.4			10.2			97.58	4777.8
RHNF3	GR153647	5559075	8.32KV_1P_Y1/0_AL	Overhead Line	60.1	230.0000				109.8			23.4			10.2			97.56	4837.9
RHNF3	GR153648	5559076	8.32KV_1P_Y1/0_AL	Overhead Line	60.4	230.0000				109.8			23.4			10.2			97.54	4898.3
RHNF3	GR153649	5559077	8.32KV_1P_Y1/0_AL	Overhead Line	56.4	230.0000				109.8			23.4			10.2			97.52	4954.7
RHNF3	GR153650	5511378	8.32KV_1P_Y1/0_AL	Overhead Line	3.3	230.0000				2.6			0.5			0.2			97.52	4958.0
RHNF3	GR153651	11283973	8.32KV_1P_Y1/0_AL	Overhead Line	67.9	230.0000				2.6			0.5			0.2			97.52	5025.9
RHNF3	GR153654	5559078	8.32KV_1P_Y1/0_AL	Overhead Line	64.5	230.0000				107.2			22.9			10.0			97.50	5019.2

Feeder Id (PF)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR153655	5559087	8.32KV_1P_Y1/0_AL	Overhead Line	57.9	230.0000				107.2			22.9			10.0			97.48	5077.1
RHNF3	GR153656	5512451	8.32KV_1P_Y1/0_AL	Overhead Line	59.3	230.0000				107.2			22.9			10.0			97.46	5136.3
RHNF3	GR153657	18164019	DEFAULT	Overhead Line	5.0	1000.0000				10.3			2.2			0.2			97.46	5141.3
RHNF3	GR153658	19033325	DEFAULT	Overhead Line	17.2	1000.0000				10.3			2.2			0.2			97.46	5158.5
RHNF3	GR153663	5559088	8.32KV_1P_Y1/0_AL	Overhead Line	62.7	230.0000				97.0			20.7			9.0			97.44	5199.0
RHNF3	GR153664	5559090	8.32KV_1P_Y1/0_AL	Overhead Line	73.7	230.0000				92.0			19.6			8.5			97.42	5272.7
RHNF3	GR153665	5559091	8.32KV_1P_Y1/0_AL	Overhead Line	64.6	230.0000				90.9			19.4			8.4			97.40	5337.3
RHNF3	GR153666	5559243	8.32KV_1P_Y1/0_AL	Overhead Line	78.1	230.0000				90.9			19.4			8.4			97.38	5415.4
RHNF3	GR153667	5511271	8.32KV_1P_Y1/0_AL	Overhead Line	75.6	230.0000				88.4			18.9			8.2			97.36	5491.0
RHNF3	GR153668	5559244	8.32KV_1P_Y1/0_AL	Overhead Line	75.8	230.0000				88.4			18.9			8.2			97.34	5566.8
RHNF3	GR153669	5511280	8.32KV_1P_Y1/0_AL	Overhead Line	19.4	230.0000				2.6			0.5			0.2			97.33	5586.2
RHNF3	GR153670	5560060	8.32KV_1P_Y1/0_AL	Overhead Line	2.1	230.0000				2.6			0.5			0.2			97.33	5588.3
RHNF3	GR153671	11340762	8.32KV_1P_Y1/0_AL	Overhead Line	37.9	230.0000				2.6			0.5			0.2			97.33	5626.2
RHNF3	GR153672	5560061	8.32KV_1P_Y1/0_AL	Overhead Line	38.3	230.0000				2.6			0.5			0.2			97.33	5664.5
RHNF3	GR153675	5559245	8.32KV_1P_Y1/0_AL	Overhead Line	79.8	230.0000				85.8			18.4			8.0			97.31	5646.5
RHNF3	GR153676	5559247	8.32KV_1P_Y1/0_AL	Overhead Line	78.9	230.0000				85.8			18.4			8.0			97.29	5725.4
RHNF3	GR153677	5559249	8.32KV_1P_Y1/0_AL	Overhead Line	57.7	230.0000				85.8			18.4			8.0			97.27	5783.2
RHNF3	GR153678	5559251	8.32KV_1P_Y1/0_AL	Overhead Line	70.9	230.0000				85.8			18.4			8.0			97.26	5854.0
RHNF3	GR153679	5559252	8.32KV_1P_Y1/0_AL	Overhead Line	87.8	230.0000				85.8			18.4			8.0			97.23	5941.8
RHNF3	GR153680	5559287	8.32KV_1P_Y1/0_AL	Overhead Line	83.6	230.0000				85.2			18.3			7.9			97.21	6025.4
RHNF3	GR153681	5512453	8.32KV_1P_Y1/0_AL	Overhead Line	80.1	230.0000				82.7			17.7			7.7			97.19	6105.5
RHNF3	GR153682	5559289	8.32KV_1P_Y1/0_AL	Overhead Line	78.9	230.0000				82.7			17.7			7.7			97.17	6184.3
RHNF3	GR153691	5560059	8.32KV_1P_Y1/0_AL	Overhead Line	3.7	230.0000				5.1			1.1			0.5			97.44	5202.7
RHNF3	GR153692	11284030	8.32KV_1P_Y1/0_AL	Overhead Line	49.9	230.0000				5.1			1.1			0.5			97.44	5252.5
RHNF3	GR153695	5561104	8.32KV_1P_Y1/0_AL	Overhead Line	49.5	230.0000				1.5			0.3			0.1			97.71	4450.5
RHNF3	GR153696	11280180	8.32KV_1P_Y1/0_AL	Overhead Line	24.0	230.0000				1.5			0.3			0.1			97.71	4474.5
RHNF3	GR153697	5511379	8.32KV_1P_Y1/0_AL	Overhead Line	76.3	230.0000				1.5			0.3			0.1			97.71	4550.8
RHNF3	GR153698	11280320	8.32KV_1P_Y1/0_AL	Overhead Line	54.9	230.0000				1.5			0.3			0.1			97.71	4605.7
RHNF3	GR153699	5511381	8.32KV_1P_Y1/0_AL	Overhead Line	69.5	230.0000				1.5			0.3			0.1			97.71	4675.2
RHNF3	GR153700	5511382	8.32KV_1P_Y1/0_AL	Overhead Line	60.4	230.0000				1.5			0.3			0.1			97.71	4735.6
RHNF3	GR153701	5511383	8.32KV_1P_Y1/0_AL	Overhead Line	119.2	230.0000				1.5			0.3			0.1			97.71	4854.8
RHNF3	GR153706	5558663	8.32KV_1P_Y1/0_AL	Overhead Line	75.4	230.0000			4.5			1.0			0.4			96.50		2733.2
RHNF3	GR153707	5558664	8.32KV_1P_Y1/0_AL	Overhead Line	64.7	230.0000			4.5			1.0			0.4			96.50		2797.8
RHNF3	GR153714	5561036	8.32KV_1P_Y1/0_AL	Overhead Line	2.4	230.0000			4.5			1.0			0.4			97.62		1797.5
RHNF3	GR153715	11251013	8.32KV_1P_Y1/0_AL	Overhead Line	18.4	230.0000			4.5			1.0			0.4			97.62		1815.9
RHNF3	GR153716	5558864	8.32KV_1P_Y1/0_AL	Overhead Line	41.8	230.0000			4.5			1.0			0.4			97.62		1857.6
RHNF3	GR153717	5559048	8.32KV_1P_Y1/0_AL	Overhead Line	47.9	230.0000			4.5			1.0			0.4			97.62		1905.5
RHNF3	GR153724	5558334	8.32KV_1P_Y1/0_AL	Overhead Line	22.5	230.0000			1.8			0.4			0.2			98.50		1147.0
RHNF3	GR153725	5558365	8.32KV_1P_Y1/0_AL	Overhead Line	42.6	230.0000			1.8			0.4			0.2			98.50		1189.6
RHNF3	GR153730	5558332	8.32KV_1P_Y1/0_AL	Overhead Line	4.1	230.0000		3.4			0.7			0.3			98.95			746.9
RHNF3	GR153731	11296269	8.32KV_1P_Y1/0_AL	Overhead Line	16.5	230.0000		3.4			0.7			0.3			98.95			763.4
RHNF3	GR153732	5558333	8.32KV_1P_Y1/0_AL	Overhead Line	68.1	230.0000		3.4			0.7			0.3			98.95			831.5
RHNF3	GR153735	5557942	8.32KV_3P_Y3/0_AL	Overhead Line	3.0	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.96	99.95	99.97	63.2
RHNF3	GR152612	X35771-5512895	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			97.58		1637.9
RHNF3	GR152634	X12058-5524510	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	5.7			1.2			22.6			95.45			2813.2
RHNF3	GR152645	X33317-1685200	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		2.7			0.6			17.9			95.33			3367.2
RHNF3	GR152649	X12060-1685201	8.32KV_UNKNOWN_75_3P	Two-Winding Transformer	0.0		75.00	5.6	4.5	2.6	1.2	1.0	0.5	7.5	6.0	3.4	94.98	95.64	98.13	3390.8
RHNF3	GR152656	X33316-1653244	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.5			10.3			97.89	3551.5
RHNF3	GR152661	X33318-1685202	8.32KV_347V_225_3P	Two-Winding Transformer	0.0		225.00	16.9	13.4	7.7	3.7	2.9	1.6	7.5	6.0	3.4	94.79	95.50	98.10	3562.6
RHNF3	GR152677	X32193-5524669	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			94.53			4187.2
RHNF3	GR152687	TP9499-1691700	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.0			3.9			17.9			94.48			4294.2
RHNF3	GR152692	TP12583-1653269	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.0			3.9			17.9			94.46			4391.0
RHNF3	GR152697	TP12582-1680846	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.0			3.9			17.9			94.44			4532.2
RHNF3	GR152702	TP12581-5510989	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.0			3.9			17.9			94.44			4650.4
RHNF3	GR152716	X11891-5513303	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			94.44			5103.8
RHNF3	GR152732	X35915-5524498	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			94.42			5823.9
RHNF3	GR152735	X11892-5510780	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.0			2.0			17.9			94.43			5421.1
RHNF3	GR152737	X11903-5510587	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			94.43			5317.5
RHNF3	GR152739	X11910-5524868	8.32KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00		0.9			0.2			17.9			94.46			4760.0
RHNF3	GR152741	X11912-5524847	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			94.47			4577.8
RHNF3	GR152743	X11913-5524494	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			94.48			4502.8
RHNF3	GR152753	X26454-11276270	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.5			22.6			93.48			4190.1
RHNF3	GR152762	TP14362-18986810	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.5			22.6			93.39			4673.7
RHNF3	GR152771	X11982-5524857	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.5			22.6			93.30			4889.4
RHNF3	GR152780	X33310-5512705	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.3			0.5			22.6			93.26			5233.3
RHNF3	GR152782	X33309-5510781	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.3			0.5			22.6			93.26			5149.7
RHNF3	GR152786	X11980-5510782	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.3			0.5			22.6			93.25			5156.1
RHNF3	GR152793	X33308-5524678	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.5			10.3			97.27	5350.4
RHNF3	GR152804	X26375-5510783	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	5.7			1.3			22.6			93.16			5748.8
RHNF3	GR152806	X26574-14707934	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	5.7			1.3			22.6			93.16			5678.1
RHNF3	GR152818	X33303-5510784	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.3			0.5			22.6			93.15			6263.1
RHNF3	GR152839	UNKNOWN-17988504	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.82	6741.1
RHNF3	GR152844	X33302-5524505	8.32KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	61.2	61.2	61.1	13.6	13.5	13.1	59.6	59.6	59.6	91.07	91.98	94.67	6831.5
RHNF3	GR152846	X33321-5524538	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.88	6308.0
RHNF3	GR152848	UNKNOWN-15497805	8.32KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	11.4	9.0	5.1	2.5	2.0	1.1	22.6	17.9	10.3	93.03	94.06	96.86	6269.8
RHNF3	GR152860	X33304-5524183	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.84	6654.4

Feeder Id (PF)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR152871	X35795-1674397	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.79	7192.6
RHNF3	GR152880	X33307-5525034	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			7.7			1.7			10.3			96.78	7413.9
RHNF3	GR152882	X60881-18108738	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.79	7178.2
RHNF3	GR152904	X11534-5524473	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.70	8538.4
RHNF3	GR152906	X11532-5524198	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.1			1.1			10.3			96.70	8374.6
RHNF3	GR152908	X11531-18140639	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.70	8284.2
RHNF3	GR152926	X33494-5524469	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.65	9089.9
RHNF3	GR152934	X33489-5512906	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.1			1.1			10.3			96.64	9071.0
RHNF3	GR152939	X33490-5512295	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.0			0.2			10.3			96.64	9128.9
RHNF3	GR152950	X33488-1676064	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.63	9642.7
RHNF3	GR152965	X11567-5510804	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.62	10023.8
RHNF3	GR152967	X11561-5524490	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.62	9648.1
RHNF3	GR152969	X11560-5512317	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.63	9573.6
RHNF3	GR152971	X11551-5512512	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.64	8984.6
RHNF3	GR152973	X11545-1686685	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.1			1.1			10.3			96.67	8488.7
RHNF3	GR152979	X33495-5513506	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.67	8579.7
RHNF3	GR152981	X11542-5511934	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.68	8288.6
RHNF3	GR152983	X11541-5524867	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.69	8207.2
RHNF3	GR152985	X11539-5513499	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.70	8057.5
RHNF3	GR153017	X33480-1676058	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.97	9919.2
RHNF3	GR153019	X50900-5513096	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.95	9721.9
RHNF3	GR153021	X12110-1693001	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.93	9651.4
RHNF3	GR153026	X33499-5526148	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.91	9652.7
RHNF3	GR153028	X12112-5510609	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.90	9519.9
RHNF3	GR153068	X42262-19057636	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.68	12019.1
RHNF3	GR153070	X42493-12975767	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.68	11915.3
RHNF3	GR153073	X33328-5524507	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.68	11908.0
RHNF3	GR153083	X42436-11590498	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.1			1.1			10.3			96.68	12079.9
RHNF3	GR153085	X11466-5513292	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.70	11088.5
RHNF3	GR153087	X11464-5526319	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.71	10964.9
RHNF3	GR153089	X11462-5513116	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.0			0.2			10.3			96.72	10845.8
RHNF3	GR153100	X33330-5513276	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00			1.5			0.3			10.3			96.71	11272.3
RHNF3	GR153108	X11491-5513491	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.70	11642.6
RHNF3	GR153110	X11490-5524364	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.0			0.2			10.3			96.70	11568.1
RHNF3	GR153112	X11488-1693793	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.70	11401.2
RHNF3	GR153114	X11486-5513467	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.70	11248.2
RHNF3	GR153116	X11482-5513466	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.0			0.2			10.3			96.71	11050.3
RHNF3	GR153118	X11479-5510772	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.71	10915.1
RHNF3	GR153120	X11499-5513493	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.78	10089.4
RHNF3	GR153122	X11504-5513115	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.82	9633.9
RHNF3	GR153126	X12115-1676061	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.85	9465.8
RHNF3	GR153131	X34796-5525576	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.82	9170.6
RHNF3	GR153133	X11513-1653497	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.81	9003.2
RHNF3	GR153136	X11519-10001542	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.0			0.2			10.3			96.77	8648.8
RHNF3	GR153138	X11522-1693172	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.1			1.1			10.3			96.74	8374.5
RHNF3	GR153142	X33478-5513299	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.74	8373.0
RHNF3	GR153145	X11524-1676027	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.73	8233.7
RHNF3	GR153147	X11526-10001623	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.72	8095.1
RHNF3	GR153150	X11528-5513480	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.71	8064.1
RHNF3	GR153152	X11538-5524896	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.71	7990.8
RHNF3	GR153154	X11974-1676060	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.72	7836.2
RHNF3	GR153156	X11973-5524486	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.0			0.2			10.3			96.73	7746.2
RHNF3	GR153158	X11972-5524860	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.0			0.2			10.3			96.73	7658.7
RHNF3	GR153160	X11969-5524859	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.75	7424.6
RHNF3	GR153162	X11965-12977731	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.78	7096.2
RHNF3	GR153164	X11960-5524484	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.0			0.2			10.3			96.83	6691.5
RHNF3	GR153166	X11951-5510579	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.5			22.6			93.11			6056.2
RHNF3	GR153168	X11948-11243602	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	5.7			1.3			22.6			93.13			5873.6
RHNF3	GR153174	X33306-5524481	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.5			10.3			97.13	5684.1
RHNF3	GR153176	X11932-5524475	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.5			22.6			93.31			4779.7
RHNF3	GR153180	X11984-5524856	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	5.7			1.3			22.6			93.35			4652.1
RHNF3	GR153182	X11923-5526327	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.5			10.3			97.65	4255.2
RHNF3	GR153205	TP5569-5525954	8.32KV_UNKNOWN_300_3P	Two-Winding Transformer	0.0		300.00	27.4	27.4	27.4	6.1	6.0	5.8	9.1	9.1	9.1	93.17	94.38	97.91	4815.9
RHNF3	GR153215	TP5399-5525435	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.1			1.1			10.3			97.76	5077.9
RHNF3	GR153220	TP5584-5525955	8.32KV_UNKNOWN_150_3P	Two-Winding Transformer	0.0		150.00	11.3	8.9	5.1	2.5	2.0	1.1	7.5	6.0	3.4	92.99	94.36	97.97	5026.1
RHNF3	GR153249	GB007869-5512528	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.0			2.0			17.9			93.76		6078.1
RHNF3	GR153251	X60306-16477220	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.1			1.1			10.3			97.73	5922.9
RHNF3	GR153258	GB003857-5524543	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	22.7			5.1			22.6			91.92			5966.1
RHNF3	GR153263	GB003858-5525242	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	22.7			5.1			22.6			91.90			6086.5
RHNF3	GR153268	TP6145-5525057	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.6			22.6			91.90			6206.0
RHNF3	GR153272	TP5499-5524544	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			10.3			2.2			10.3			97.73	5901.1
RHNF3	GR153277	GB003855-5525064	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.0			4.0			17.9			93.76		5951.3
RHNF3	GR153280	X60314-16477237	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.0			2.0			17.9			93.78		5587.2
RHNF3	GR153302	X11817-5524032	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			93.58		6614.1
RHNF3	GR153304	X11819-1676050	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			93.58		6498.0
RHNF3	GR153309	TP10386-5524719	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.0			2.0			17.9			93.56		6454.8

Feeder Id (PF)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR153314	TP10387-5524899	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.0			2.0			17.9			93.53		6674.6
RHNF3	GR153319	TP10388-5524717	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.0			4.0			17.9			93.51		6887.7
RHNF3	GR153324	TP7746-1653326	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.0			2.0			17.9			93.51		7060.1
RHNF3	GR153329	X11824-5524720	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.0			2.0			17.9			93.61		6127.1
RHNF3	GR153331	X11826-5524907	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.8			0.4			17.9			93.64		5949.5
RHNF3	GR153336	TP10385-1653332	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		13.5			3.0			17.9			93.62		6082.3
RHNF3	GR153341	TP10384-1653328	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.0			2.0			17.9			93.59		6307.8
RHNF3	GR153347	TP7742-1653378	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.0			4.0			17.9			93.55		6706.7
RHNF3	GR153353	TP7745-1653327	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.0			2.0			17.9			93.54		6992.6
RHNF3	GR153356	X11831-5524529	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			93.73		5655.9
RHNF3	GR153365	GB003862-1687164	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.6			22.6			91.93			5853.6
RHNF3	GR153370	GB003863-5524522	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.6			22.6			91.92			6030.6
RHNF3	GR153378	TP5500-5524889	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			10.3			2.2			10.3			97.74	5692.0
RHNF3	GR153384	GB003856-1692091	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.0			4.0			17.9			93.74		6396.2
RHNF3	GR153403	X11847-5526280	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.0			2.0			17.9			93.87		6214.0
RHNF3	GR153448	X36721-5525402	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.6			22.6			91.14			7731.6
RHNF3	GR153455	X36702-5525386	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	17.0			3.9			22.6			91.14			7759.2
RHNF3	GR153457	X36716-5525387	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.6			22.6			91.14			7632.4
RHNF3	GR153478	X46775-15659263	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	17.0			3.9			22.6			91.07			8074.7
RHNF3	GR153480	X36459-5525032	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	5.7			1.3			22.6			91.08			7956.9
RHNF3	GR153482	X36470-1676034	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.6			22.6			91.09			7811.6
RHNF3	GR153491	X36449-1676032	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.6			22.6			91.08			7915.9
RHNF3	GR153504	X36460-5526100	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.6			22.6			91.08			8046.6
RHNF3	GR153506	X36445-5525940	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.6			22.6			91.08			7861.1
RHNF3	GR153508	X42643-13488988	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.3			2.6			22.6			91.09			7759.0
RHNF3	GR153514	X36469-1683458	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	5.7			1.3			22.6			91.10			7833.4
RHNF3	GR153516	X36713-5526289	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	5.7			1.3			22.6			91.11			7675.2
RHNF3	GR153526	X36706-5525205	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.0			2.0			17.9			94.15		7683.4
RHNF3	GR153531	TP3989-5524353	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	17.0			3.9			22.6			91.12			7747.2
RHNF3	GR153533	X36285-5525554	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		2.7			0.6			17.9			94.14		7519.8
RHNF3	GR153535	X36284-5525041	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.5			10.3			97.52	7459.0
RHNF3	GR153537	X36280-5525222	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		2.7			0.6			17.9			94.11		7404.8
RHNF3	GR153539	X36276-5525558	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			94.10		7344.4
RHNF3	GR153541	X32149-5525200	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			94.08		7264.1
RHNF3	GR153544	X11998-1677697	8.32KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			3.9			0.8			10.3			97.58	6928.3
RHNF3	GR153546	X34865-11429562	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			7.7			1.6			10.3			97.62	6637.4
RHNF3	GR153550	X11841-5526492	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			93.85		6061.3
RHNF3	GR153552	X11840-5526507	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.0			2.0			17.9			93.83		5974.5
RHNF3	GR153554	X11837-5525424	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.5			10.3			97.72	5751.6
RHNF3	GR153556	X11836-5525425	8.32KV_120V/208V_75_3P	Two-Winding Transformer	0.0		75.00	5.6	4.5	2.6	1.3	1.0	0.5	7.5	6.0	3.4	92.40	94.16	97.94	5673.0
RHNF3	GR153558	X11850-5524888	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.5			10.3			97.74	5572.0
RHNF3	GR153560	X60319-18075155	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			7.7			1.6			10.3			97.76	5499.2
RHNF3	GR153564	X36688-5525409	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.5			10.3			97.76	5190.5
RHNF3	GR153566	X11860-5525073	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.5			10.3			97.76	5087.7
RHNF3	GR153572	X36687-5525951	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.3			0.5			22.6			92.61			5055.5
RHNF3	GR153574	X45764-5524902	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.3			0.5			22.6			92.68			4829.1
RHNF3	GR153580	TP12577-5525060	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.0			4.0			17.9			94.08		4879.1
RHNF3	GR153585	TP12578-5524894	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.0			4.0			17.9			94.05		5028.9
RHNF3	GR153590	TP12579-5525965	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.0			4.0			17.9			94.03		5175.6
RHNF3	GR153595	TP12580-5525600	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.0			4.0			17.9			94.00		5696.4
RHNF3	GR153600	X11873-5524661	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			94.19		4557.2
RHNF3	GR153602	X11880-5524884	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.8			0.4			17.9			94.53		4040.0
RHNF3	GR153604	X12011-1676028	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	5.7			1.2			22.6			94.45			3406.1
RHNF3	GR153606	X12018-1694630	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		13.5			2.9			17.9			95.79		2928.0
RHNF3	GR153638	X33311-5526322	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.5			10.3			97.53	4383.7
RHNF3	GR153652	X33301-5524707	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.5			10.3			97.29	5025.9
RHNF3	GR153661	TP14061-18178057	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			10.3			2.2			10.3			97.22	5362.6
RHNF3	GR153673	X33493-5510591	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.5			10.3			97.10	5664.5
RHNF3	GR153683	X12106-5513289	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.6			10.3			96.98	6025.4
RHNF3	GR153685	X12105-5513094	8.32KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00			0.5			0.1			10.3			97.00	5941.8
RHNF3	GR153687	X12098-5512524	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.6			0.5			10.3			97.15	5415.4
RHNF3	GR153689	X12096-5512523	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.0			0.2			10.3			97.19	5272.7
RHNF3	GR153693	X33484-5510590	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.1			1.1			10.3			97.21	5252.5
RHNF3	GR153702	X33313-5524708	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00			1.5			0.3			10.3			97.48	4854.8
RHNF3	GR153704	X12079-5510604	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00			1.5			0.3			10.3			97.59	4085.9
RHNF3	GR153708	X33314-5524866	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			96.12		2797.8
RHNF3	GR153710	X12056-5524508	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	5.7			1.2			22.6			95.72			2609.2
RHNF3	GR153712	X12054-5524509	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.8			0.4			17.9			96.37		2461.3
RHNF3	GR153718	X35770-1676031	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			1.0			17.9			97.23		1905.5
RHNF3	GR153720	X12040-5512131	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.8			0.4			17.9			97.95		1257.4
RHNF3	GR153722	X12042-5510968	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.5			0.9			17.9			98.13		1124.4
RHNF3	GR153726	X35772-5510987	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.8			0.4			17.9			98.13		1189.6
RHNF3	GR153728	X12046-5510969	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.8			0.4			17.9			98.54		817.7
RHNF3	GR153733	X35763-5510970	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00	3.4			0.7			22.6			98.46			831.5

Feeder Id (Balace)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR187999	16455236	BUS8.32KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	100.00	100.00	0.1
RHNF3	GR188000	13467459	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		534.0	495.6	547.5	111.2	103.2	114.0	18.5	17.2	19.0	100.00	100.00	100.00	0.1
RHNF3	GR152582	5500125	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		534.0	495.6	547.5	111.2	103.2	114.0	18.5	17.2	19.0	100.00	100.00	100.00	0.2
RHNF3	GR152583	13473911	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		534.0	495.6	547.5	111.2	103.2	114.0	18.5	17.2	19.0	100.00	100.00	100.00	0.3
RHNF3	GR152584	5558057	8.32KV_3P_350_CU_XLPE	Cable	2.1	390.0000		534.0	495.6	547.5	111.2	103.2	114.0	28.5	26.5	29.2	100.00	100.00	100.00	2.4
RHNF3	GR152585	5508080	8.32KV_3P_350_CU_XLPE	Cable	50.8	390.0000		534.0	495.6	547.5	111.2	103.2	114.0	28.5	26.5	29.2	99.96	99.97	99.96	53.2
RHNF3	GR152685	5558242	8.32KV_1P_2/0_AL_XLPE	Cable	97.0	220.0000			75.4			16.4			7.5			95.63		4294.2
RHNF3	GR152690	5508070	8.32KV_1P_2/0_AL_XLPE	Cable	96.8	220.0000			56.5			12.3			5.6			95.62		4391.0
RHNF3	GR152695	5508071	8.32KV_1P_2/0_AL_XLPE	Cable	141.2	220.0000			37.7			8.2			3.7			95.60		4532.2
RHNF3	GR152700	5508072	8.32KV_1P_2/0_AL_XLPE	Cable	118.2	220.0000			18.8			4.1			1.9			95.59		4650.4
RHNF3	GR152760	18986823	8.32KV_1P_1/0_AL_XLPE	Cable	211.3	220.0000		12.0			2.6			1.2			94.60			4673.7
RHNF3	GR153203	11241287	8.32KV_3P_2/0_AL_XLPE	Cable	46.5	265.0000		27.4	27.4	27.4	6.1	6.0	6.0	2.3	2.3	2.3	94.15	95.41	94.62	4815.9
RHNF3	GR153212	5510435	8.32KV_1P_2/0_AL_XLPE	Cable	4.2	220.0000				5.5			1.2			0.5			94.45	5041.4
RHNF3	GR153213	11240844	8.32KV_1P_2/0_AL_XLPE	Cable	36.5	220.0000				5.5			1.2			0.5			94.45	5077.9
RHNF3	GR153218	11241255	8.32KV_3P_2/0_AL_XLPE	Cable	11.0	265.0000		11.9	9.4	5.5	2.6	2.0	1.2	1.0	0.8	0.5	93.98	95.39	94.45	5026.1
RHNF3	GR153247	11241651	8.32KV_1P_2/0_AL_XLPE	Cable	63.0	220.0000			9.4			2.1			0.9			95.30		6078.1
RHNF3	GR153254	16478184	8.32KV_3P_3/0_AL_XLPE	Cable	30.0	265.0000		59.9	18.8	10.9	13.3	4.1	2.4	5.0	1.6	0.9	93.52	95.31	94.08	5794.6
RHNF3	GR153255	16478187	8.32KV_2P_2/0_AL_XLPE	Cable	20.1	265.0000		59.8		10.9	13.3		2.4	5.0		0.9	93.51		94.08	5814.7
RHNF3	GR153256	5512016	8.32KV_1P_2/0_AL_XLPE	Cable	151.4	220.0000		59.8			13.3			6.1			93.48			5966.1
RHNF3	GR153261	5512017	8.32KV_1P_2/0_AL_XLPE	Cable	120.5	220.0000		35.9			8.0			3.6			93.46			6086.5
RHNF3	GR153266	5512018	8.32KV_1P_2/0_AL_XLPE	Cable	119.5	220.0000		12.0			2.7			1.2			93.46			6206.0
RHNF3	GR153270	5560705	8.32KV_1P_2/0_AL_XLPE	Cable	86.4	220.0000				10.9			2.4			1.1			94.08	5901.1
RHNF3	GR153275	5512404	8.32KV_1P_2/0_AL_XLPE	Cable	156.8	220.0000			18.8			4.1			1.9			95.30		5951.3
RHNF3	GR153307	5509896	8.32KV_1P_2/0_AL_XLPE	Cable	128.5	220.0000				47.1			10.5			4.8			93.82	6454.8
RHNF3	GR153312	12939423	8.32KV_1P_2/0_AL_XLPE	Cable	219.8	220.0000				37.7			8.4			3.8			93.79	6674.6
RHNF3	GR153317	12939418	8.32KV_1P_2/0_AL_XLPE	Cable	213.0	220.0000				28.3			6.3			2.9			93.77	6887.7
RHNF3	GR153322	12939413	8.32KV_1P_2/0_AL_XLPE	Cable	172.5	220.0000				9.4			2.1			1.0			93.77	7060.1
RHNF3	GR153327	12939409	8.32KV_1P_2/0_AL_XLPE	Cable	91.8	220.0000				0.0			0.0			0.0			93.77	7151.9
RHNF3	GR153328	11557575	8.32KV_1P_2/0_AL_XLPE	Cable	107.1	220.0000				0.0			0.0			0.0			93.77	7259.0
RHNF3	GR153334	12939384	8.32KV_1P_2/0_AL_XLPE	Cable	155.2	220.0000				51.9			11.5			5.2			93.89	6082.3
RHNF3	GR153339	12939394	8.32KV_1P_2/0_AL_XLPE	Cable	225.5	220.0000				37.7			8.4			3.8			93.86	6307.8
RHNF3	GR153344	15467683	8.32KV_1P_2/0_AL_XLPE	Cable	138.8	220.0000				28.3			6.3			2.9			93.85	6446.6
RHNF3	GR153345	14658872	8.32KV_1P_1/0_AL_XLPE	Cable	260.1	220.0000				28.3			6.3			2.9			93.82	6706.7
RHNF3	GR153350	14658886	8.32KV_1P_1/0_AL_XLPE	Cable	260.1	220.0000				9.4			2.1			1.0			93.81	6966.7
RHNF3	GR153351	11557644	8.32KV_1P_2/0_AL_XLPE	Cable	25.8	220.0000				9.4			2.1			1.0			93.81	6992.6
RHNF3	GR153362	5510462	8.32KV_3P_2/0_AL_XLPE	Cable	26.8	265.0000		23.9	18.9	10.9	5.3	4.1	2.4	2.0	1.6	0.9	93.50	95.33	94.08	5656.2
RHNF3	GR153363	5508597	8.32KV_1P_2/0_AL_XLPE	Cable	197.5	220.0000		23.9			5.3			2.4			93.49			5853.6
RHNF3	GR153368	5512020	8.32KV_1P_2/0_AL_XLPE	Cable	177.0	220.0000		12.0			2.7			1.2			93.48			6030.6
RHNF3	GR153373	5512019	8.32KV_1P_2/0_AL_XLPE	Cable	175.0	220.0000		0.0			0.0			0.0			93.48			6205.6
RHNF3	GR153375	5511789	8.32KV_2P_2/0_AL_XLPE	Cable	1.1	265.0000			18.9	10.9		4.1	2.4		1.6	0.9		95.33	94.08	5657.3
RHNF3	GR153376	5511288	8.32KV_1P_2/0_AL_XLPE	Cable	34.8	220.0000				10.9			2.4			1.1			94.08	5692.0
RHNF3	GR153381	5560704	8.32KV_1P_2/0_AL_XLPE	Cable	138.8	220.0000				0.0			0.0			0.0			94.08	5830.8
RHNF3	GR153382	5512402	8.32KV_1P_2/0_AL_XLPE	Cable	738.9	220.0000			18.9			4.1			1.9			95.28		6396.2
RHNF3	GR153387	5512403	8.32KV_1P_2/0_AL_XLPE	Cable	89.1	220.0000			0.0			0.0			0.0			95.28		6485.2
RHNF3	GR153443	11239436	8.32KV_1P_2/0_AL_XLPE	Cable	46.7	220.0000		41.9			9.4			4.3			92.55			7570.9
RHNF3	GR153529	5510507	8.32KV_1P_2/0_AL_XLPE	Cable	92.6	220.0000		18.0			4.0			1.8			92.52			7747.2
RHNF3	GR153578	5512780	8.32KV_1P_2/0_AL_XLPE	Cable	183.8	220.0000			75.4			16.5			7.5			95.38		4879.1
RHNF3	GR153583	5511179	8.32KV_1P_2/0_AL_XLPE	Cable	149.8	220.0000			56.6			12.3			5.6			95.35		5028.9
RHNF3	GR153588	5511389	8.32KV_1P_2/0_AL_XLPE	Cable	146.7	220.0000			37.7			8.2			3.7			95.33		5175.6
RHNF3	GR153593	5511390	8.32KV_1P_2/0_AL_XLPE	Cable	520.8	220.0000			18.8			4.1			1.9			95.30		5696.4
RHNF3	GR153598	5508430	8.32KV_1P_2/0_AL_XLPE	Cable	154.3	220.0000			0.0			0.0			0.0			95.30		5850.6
RHNF3	GR153659	18164026	8.32KV_1P_1/0_AL_XLPE	Cable	204.1	220.0000				10.9			2.4			1.1			94.99	5362.6
RHNF3	GR152586	12940925	8.32KV_3P_N1/0_AL	Overhead Line	7.0	230.0000		533.8	495.4	547.3	111.2	103.2	114.0	48.3	44.9	49.6	99.96	99.96	99.96	60.2
RHNF3	GR152587	12940926	8.32KV_3P_Y3/0_AL	Overhead Line	49.9	270.0000		533.8	495.4	547.3	111.2	103.2	114.0	41.2	38.2	42.2	99.89	99.90	99.89	110.0
RHNF3	GR152588	5557943	8.32KV_3P_Y3/0_AL	Overhead Line	62.2	270.0000		533.4	495.1	546.9	111.2	103.2	114.0	41.2	38.2	42.2	99.81	99.83	99.80	172.3
RHNF3	GR152589	5557944	8.32KV_3P_Y3/0_AL	Overhead Line	61.9	270.0000		533.0	494.8	546.4	111.2	103.2	114.0	41.2	38.2	42.2	99.73	99.76	99.71	234.1
RHNF3	GR152590	5557945	8.32KV_3P_Y3/0_AL	Overhead Line	72.7	270.0000		532.6	494.4	546.0	111.2	103.2	114.0	41.2	38.2	42.2	99.64	99.68	99.61	306.8
RHNF3	GR152591	5508439	8.32KV_3P_Y3/0_AL	Overhead Line	79.2	270.0000		532.1	494.0	545.4	111.2	103.2	114.0	41.2	38.2	42.2	99.54	99.58	99.50	386.0
RHNF3	GR152592	5508440	8.32KV_3P_Y3/0_AL	Overhead Line	76.1	270.0000		531.6	493.5	544.8	111.2	103.2	114.0	41.2	38.2	42.2	99.44	99.50	99.39	462.2
RHNF3	GR152593	5508441	8.32KV_3P_Y3/0_AL	Overhead Line	72.3	270.0000		531.0	493.1	544.2	111.2	103.2	114.0	41.2	38.2	42.2	99.35	99.41	99.29	534.5
RHNF3	GR152594	5508442	8.32KV_3P_Y3/0_AL	Overhead Line	62.2	270.0000		530.5	492.7	543.7	111.2	103.2	114.0	41.2	38.2	42.2	99.27	99.34	99.20	596.7
RHNF3	GR152595	5508443	8.32KV_3P_Y3/0_AL	Overhead Line	73.0	270.0000		530.1	492.3	543.2	111.2	103.2	114.0	41.2	38.2	42.2	99.17	99.26	99.10	669.7
RHNF3	GR152596	5508444	8.32KV_3P_Y3/0_AL	Overhead Line	73.1	270.0000		529.6	491.9	542.6	111.2	103.2	114.0	41.2	38.2	42.2	99.08	99.17	99.00	742.8
RHNF3	GR152597	5511700	8.32KV_3P_Y3/0_AL	Overhead Line	74.9	270.0000		525.5	491.5	542.1	110.4	103.2	114.0	40.9	38.2	42.2	98.98	99.08	98.89	817.7
RHNF3	GR152598	5508445	8.32KV_3P_Y3/0_AL	Overhead Line	72.7	270.0000		525.0	489.2	541.5	110.4	102.8	114.0	40.9	38.1	42.2	98.89	99.00	98.79	890.4
RHNF3	GR152599	5508446	8.32KV_3P_Y3/0_AL	Overhead Line	73.7	270.0000		524.6	488.8	540.9	110.4	102.8	114.0	40.9	38.1	42.2	98.80	98.92	98.69	964.1
RHNF3	GR152600	5508447	8.32KV_3P_Y3/0_AL	Overhead Line	80.6	270.0000		524.1	488.4	540.4	110.4	102.8	114.0	40.9	38.1	42.2	98.70	98.82	98.57	1044.7
RHNF3	GR152601	5508448	8.32KV_3P_Y3/0_AL	Overhead Line	79.7	270.0000		523.5	487.9	539.8	110.4	102.8	114.0	40.9	38.1	42.2	98.60	98.73	98.46	1124.4
RHNF3	GR152602	5508449	8.32KV_3P_Y3/0_AL	Overhead Line	65.6	270.0000		523.0	480.9	539.2	110.4	101.4	114.0	40.9	37.6	42.2	98.51	98.66	98.37	1190.0
RHNF3	GR152603	5511069	8.32KV_3P_Y3/0_AL	Overhead Line	67.4	270.0000		522.6	480.5	538.7	110.4	101.4	114.0	40.9	37.6	42.2	98.43	98.58	98.27	1257.4
RHNF3	GR152604	5558678	8.32KV_3P_Y3/0_AL	Overhead Line	70.2	270.0000		522.1	478.3	538.1	110.4	101.0	114.0	40.9	37.4	42.2	98.34	98.50	98.18	1327.6
RHNF3	GR152605	5558679	8.32KV_3P_Y3/0_AL	Overhead Line	69.2	270.0000		521.6	477.9	537.6	110.4	101.0	114.0	40.9	37.4	42.2	98.25	98.42	98.08	1396.8
RHNF3	GR152606	5561029	8.32KV_3P_Y3/0_AL	Overhead Line	67.9	270.0000		521.2	477.5	537.1	110.4	101.0	114.0	40.9	37.4	42.2	98.17	98.35	97.98	1464.7
RHNF3	GR152607	5561030	8.32KV_3P_Y3/0_AL	Overhead Line	68.0	270.0000		520.7	477.1	536.5	110.4	101.0	114.0	40.9	37.4	42.2	98.08	98.27	97.88	1532.7
RHNF3	GR152608	5561031	8.32KV_1P_Y1/0_AL	Overhead Line	2.4	230.0000			4.7			1.0			0.4			98.27		1535.0

Feeder Id (Balace)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR152609	11251035	8.32KV_1P_Y1/0_AL	Overhead Line	18.7	230.0000			4.7			1.0			0.4			98.27		1553.7
RHNF3	GR152610	5559049	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000			4.7			1.0			0.4			98.27		1596.8
RHNF3	GR152611	5559050	8.32KV_1P_Y1/0_AL	Overhead Line	41.1	230.0000			4.7			1.0			0.4			98.27		1637.9
RHNF3	GR152614	5561032	8.32KV_3P_Y3/0_AL	Overhead Line	65.4	270.0000		520.3	472.1	536.0	110.4	100.0	114.0	40.9	37.0	42.2	98.00	98.20	97.79	1598.1
RHNF3	GR152615	5561033	8.32KV_3P_Y3/0_AL	Overhead Line	65.9	270.0000		519.8	471.7	535.5	110.4	100.0	114.0	40.9	37.0	42.2	97.92	98.12	97.70	1664.0
RHNF3	GR152616	5561034	8.32KV_3P_Y3/0_AL	Overhead Line	63.3	270.0000		519.4	471.4	535.0	110.4	100.0	114.0	40.9	37.0	42.2	97.84	98.05	97.61	1727.3
RHNF3	GR152617	5561035	8.32KV_3P_Y3/0_AL	Overhead Line	67.7	270.0000		519.0	471.0	534.5	110.4	100.0	114.0	40.9	37.0	42.2	97.75	97.98	97.51	1795.0
RHNF3	GR152618	5558051	8.32KV_3P_Y3/0_AL	Overhead Line	68.1	270.0000		518.5	466.0	534.0	110.4	99.0	114.0	40.9	36.7	42.2	97.67	97.90	97.41	1863.1
RHNF3	GR152619	5558052	8.32KV_3P_Y3/0_AL	Overhead Line	69.3	270.0000		518.1	465.6	533.4	110.4	99.0	114.0	40.9	36.7	42.2	97.58	97.83	97.31	1932.5
RHNF3	GR152620	5558053	8.32KV_3P_Y3/0_AL	Overhead Line	69.0	270.0000		517.6	465.3	532.9	110.4	99.0	114.0	40.9	36.7	42.2	97.49	97.75	97.22	2001.5
RHNF3	GR152621	5558055	8.32KV_3P_Y3/0_AL	Overhead Line	75.2	270.0000		517.2	464.9	532.4	110.4	99.0	114.0	40.9	36.7	42.2	97.40	97.67	97.11	2076.7
RHNF3	GR152622	5558056	8.32KV_3P_Y3/0_AL	Overhead Line	67.3	270.0000		516.7	464.5	531.8	110.4	99.0	114.0	40.9	36.7	42.2	97.31	97.60	97.01	2143.9
RHNF3	GR152623	5558058	8.32KV_3P_Y3/0_AL	Overhead Line	68.9	270.0000		516.2	464.2	531.3	110.4	99.0	114.0	40.9	36.7	42.2	97.23	97.52	96.91	2212.8
RHNF3	GR152624	5558059	8.32KV_3P_Y3/0_AL	Overhead Line	67.2	270.0000		515.8	463.8	530.7	110.4	99.0	114.0	40.9	36.7	42.2	97.14	97.45	96.82	2280.0
RHNF3	GR152625	5558060	8.32KV_3P_Y3/0_AL	Overhead Line	76.6	270.0000		515.3	463.5	530.2	110.4	99.0	114.0	40.9	36.7	42.2	97.05	97.37	96.71	2356.6
RHNF3	GR152626	5559047	8.32KV_3P_Y3/0_AL	Overhead Line	104.7	270.0000		514.8	463.1	529.6	110.4	99.0	114.0	40.9	36.7	42.2	96.92	97.25	96.56	2461.3
RHNF3	GR152627	5560640	8.32KV_3P_Y3/0_AL	Overhead Line	74.7	270.0000		514.1	460.7	528.8	110.4	98.6	114.0	40.9	36.5	42.2	96.82	97.17	96.45	2536.0
RHNF3	GR152628	5560857	8.32KV_3P_Y3/0_AL	Overhead Line	73.2	270.0000		513.6	460.3	528.2	110.4	98.6	114.0	40.9	36.5	42.2	96.73	97.09	96.35	2609.2
RHNF3	GR152629	5560858	8.32KV_3P_Y3/0_AL	Overhead Line	48.6	270.0000		507.2	459.9	527.6	109.2	98.6	114.0	40.4	36.5	42.2	96.67	97.04	96.28	2657.8
RHNF3	GR152630	5511065	8.32KV_3P_Y3/0_AL	Overhead Line	53.2	270.0000		506.9	454.9	381.9	109.2	97.6	82.6	40.4	36.1	30.6	96.59	96.98	96.23	2711.0
RHNF3	GR152631	5560859	8.32KV_3P_Y3/0_AL	Overhead Line	72.5	270.0000		506.5	454.7	381.7	109.2	97.6	82.6	40.4	36.1	30.6	96.49	96.91	96.17	2783.4
RHNF3	GR152632	5560426	8.32KV_1P_Y1/0_AL	Overhead Line	2.3	230.0000		6.0			1.3			0.6			96.49			2785.7
RHNF3	GR152633	11279852	8.32KV_1P_Y1/0_AL	Overhead Line	27.5	230.0000		6.0			1.3			0.6			96.49			2813.2
RHNF3	GR152636	5560860	8.32KV_3P_Y3/0_AL	Overhead Line	70.7	270.0000		499.9	454.4	381.5	107.9	97.6	82.6	39.9	36.1	30.6	96.38	96.84	96.11	2854.1
RHNF3	GR152637	5560861	8.32KV_3P_Y3/0_AL	Overhead Line	73.9	270.0000		499.4	454.0	381.2	107.9	97.6	82.6	39.9	36.1	30.6	96.28	96.76	96.04	2928.0
RHNF3	GR152638	5560862	8.32KV_3P_Y3/0_AL	Overhead Line	73.6	270.0000		498.8	439.5	381.0	107.9	94.6	82.6	40.0	35.0	30.6	96.17	96.69	95.98	3001.6
RHNF3	GR152639	5560863	8.32KV_3P_Y3/0_AL	Overhead Line	83.8	270.0000		498.3	439.2	380.7	107.9	94.6	82.6	40.0	35.0	30.6	96.05	96.61	95.91	3085.4
RHNF3	GR152640	5560864	8.32KV_3P_Y3/0_AL	Overhead Line	85.8	270.0000		497.7	438.8	380.4	107.9	94.6	82.6	40.0	35.0	30.6	95.93	96.52	95.83	3171.2
RHNF3	GR152641	5560865	8.32KV_3P_Y3/0_AL	Overhead Line	83.4	270.0000		497.0	438.5	380.1	107.9	94.6	82.6	40.0	35.0	30.6	95.81	96.44	95.76	3254.6
RHNF3	GR152642	5560866	8.32KV_3P_Y3/0_AL	Overhead Line	67.1	270.0000		496.4	438.1	379.9	107.9	94.6	82.6	40.0	35.0	30.6	95.71	96.38	95.70	3321.7
RHNF3	GR152643	5560444	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000			2.8			0.6			0.3			96.38		3324.4
RHNF3	GR152644	11280000	8.32KV_1P_Y1/0_AL	Overhead Line	42.8	230.0000			2.8			0.6			0.3			96.38		3367.2
RHNF3	GR152647	5560867	8.32KV_3P_Y3/0_AL	Overhead Line	44.0	270.0000		495.9	435.0	379.6	107.9	94.0	82.6	40.0	34.8	30.6	95.65	96.33	95.66	3365.7
RHNF3	GR152648	5560868	8.32KV_3P_Y1/0_AL	Overhead Line	25.1	230.0000		5.9	4.7	2.7	1.3	1.0	0.6	0.6	0.4	0.3	95.65	96.33	95.66	3390.8
RHNF3	GR152651	5561019	8.32KV_3P_Y3/0_AL	Overhead Line	40.4	270.0000		489.7	430.1	376.8	106.6	92.9	82.0	39.5	34.4	30.4	95.59	96.29	95.62	3406.1
RHNF3	GR152652	5561021	8.32KV_3P_Y3/0_AL	Overhead Line	83.2	270.0000		483.4	429.9	376.6	105.3	92.9	82.0	39.0	34.4	30.4	95.47	96.21	95.55	3489.3
RHNF3	GR152653	5560837	8.32KV_1P_Y1/0_AL	Overhead Line	2.9	230.0000				2.7			0.6			0.3			95.55	3492.3
RHNF3	GR152654	11279955	8.32KV_1P_Y1/0_AL	Overhead Line	20.9	230.0000				2.7			0.6			0.3			95.55	3513.2
RHNF3	GR152655	11279994	8.32KV_1P_Y1/0_AL	Overhead Line	38.3	230.0000				2.7			0.6			0.3			95.55	3551.5
RHNF3	GR152659	5561022	8.32KV_3P_Y1/0_AL	Overhead Line	3.4	230.0000		17.8	14.1	8.2	3.9	3.0	1.8	1.7	1.3	0.8	95.47	96.21	95.55	3492.8
RHNF3	GR152660	11279938	8.32KV_3P_Y1/0_AL	Overhead Line	69.9	230.0000		17.8	14.1	8.2	3.9	3.0	1.8	1.7	1.3	0.8	95.47	96.21	95.55	3562.6
RHNF3	GR152663	5561023	8.32KV_3P_Y3/0_AL	Overhead Line	72.9	270.0000		465.0	415.5	365.4	101.4	89.9	79.6	37.6	33.3	29.5	95.38	96.14	95.49	3562.2
RHNF3	GR152664	5561024	8.32KV_3P_Y3/0_AL	Overhead Line	45.1	270.0000		464.5	415.2	365.2	101.4	89.9	79.6	37.6	33.3	29.5	95.32	96.10	95.45	3607.3
RHNF3	GR152665	5561025	8.32KV_3P_Y3/0_AL	Overhead Line	36.4	270.0000		464.2	415.0	365.1	101.4	89.9	79.6	37.6	33.3	29.5	95.27	96.07	95.42	3643.7
RHNF3	GR152666	5561026	8.32KV_3P_Y3/0_AL	Overhead Line	43.7	270.0000		464.0	414.9	364.9	101.4	89.9	79.6	37.6	33.3	29.5	95.21	96.03	95.38	3687.4
RHNF3	GR152667	5561027	8.32KV_3P_Y3/0_AL	Overhead Line	63.2	270.0000		463.7	414.7	364.8	101.4	89.9	79.6	37.6	33.3	29.5	95.12	95.97	95.33	3750.6
RHNF3	GR152668	5560039	8.32KV_3P_Y3/0_AL	Overhead Line	61.7	270.0000		463.3	414.5	364.6	101.4	89.9	79.6	37.6	33.3	29.5	95.04	95.91	95.27	3812.3
RHNF3	GR152669	5560040	8.32KV_3P_Y3/0_AL	Overhead Line	75.0	270.0000		462.9	414.2	364.4	101.4	89.9	79.6	37.6	33.3	29.5	94.94	95.84	95.21	3887.3
RHNF3	GR152670	5560041	8.32KV_3P_Y3/0_AL	Overhead Line	76.4	270.0000		462.4	413.9	364.2	101.4	89.9	79.6	37.6	33.3	29.5	94.84	95.77	95.15	3963.7
RHNF3	GR152671	5560044	8.32KV_3P_Y3/0_AL	Overhead Line	42.3	270.0000		461.9	413.6	363.9	101.4	89.9	79.6	37.6	33.3	29.5	94.78	95.73	95.11	4006.1
RHNF3	GR152672	5558648	8.32KV_1P_Y1/0_AL	Overhead Line	19.6	230.0000			114.1			24.8			10.8			95.72		4025.6
RHNF3	GR152673	5561058	8.32KV_1P_Y1/0_AL	Overhead Line	69.3	230.0000			114.1			24.8			10.8			95.69		4095.0
RHNF3	GR152674	5561059	8.32KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000			4.7			1.0			0.4			95.69		4097.7
RHNF3	GR152675	11276178	8.32KV_1P_Y1/0_AL	Overhead Line	21.1	230.0000			4.7			1.0			0.4			95.69		4118.9
RHNF3	GR152676	5561060	8.32KV_1P_Y1/0_AL	Overhead Line	68.3	230.0000			4.7			1.0			0.4			95.69		4187.2
RHNF3	GR152679	5561061	8.32KV_1P_Y1/0_AL	Overhead Line	48.4	230.0000			109.3			23.8			10.3			95.68		4143.4
RHNF3	GR152680	13013615	8.32KV_1P_Y1/0_AL	Overhead Line	5.9	230.0000			109.3			23.8			10.3			95.68		4149.3
RHNF3	GR152681	13013607	8.32KV_1P_Y1/0_AL	Overhead Line	6.0	230.0000			109.3			23.8			10.3			95.67		4155.3
RHNF3	GR152682	13013618	8.32KV_1P_N1/0_AL	Overhead Line	9.2	230.0000			0.0			0.0			0.0			95.67		4164.4
RHNF3	GR152683	5561062	8.32KV_1P_Y1/0_AL	Overhead Line	37.0	230.0000			109.3			23.8			10.3			95.66		4192.2
RHNF3	GR152684	5558237	8.32KV_1P_Y1/0_AL	Overhead Line	5.0	230.0000			75.4			16.4			7.1			95.66		4197.2
RHNF3	GR152704	5561063	8.32KV_1P_Y1/0_AL	Overhead Line	49.6	230.0000			33.9			7.4			3.2			95.66		4241.8
RHNF3	GR152705	5561064	8.32KV_1P_Y1/0_AL	Overhead Line	89.6	230.0000			33.9			7.4			3.2			95.65		4331.4
RHNF3	GR152706	5561065	8.32KV_1P_Y1/0_AL	Overhead Line	86.3	230.0000			33.9			7.4			3.2			95.64		4417.7
RHNF3	GR152707	5511067	8.32KV_1P_Y1/0_AL	Overhead Line	85.1	230.0000			33.9			7.4			3.2			95.63		4502.8
RHNF3	GR152708	5561066	8.32KV_1P_Y1/0_AL	Overhead Line	75.0	230.0000			29.2			6.4			2.8			95.62		4577.8
RHNF3	GR152709	5561068	8.32KV_1P_Y1/0_AL	Overhead Line	91.9	230.0000			24.5			5.3			2.3			95.61		4669.7
RHNF3	GR152710	5561069	8.32KV_1P_Y1/0_AL	Overhead Line	90.3	230.0000			24.5			5.3			2.3			95.61		4760.0
RHNF3	GR152711	5558027	8.32KV_1P_Y1/0_AL	Overhead Line	84.8	230.0000			23.5			5.1			2.2			95.60		4844.8
RHNF3	GR152712	5558037	8.32KV_1P_Y1/0_AL	Overhead Line	80.0	230.0000			23.5			5.1			2.2			95.59		4924.8
RHNF3	GR152713	11601448	8.32KV_1P_Y1/0_AL	Overhead Line	77.4	230.0000			23.5			5.1			2.2			95.59		5002.3
RHNF3	GR152714	5558038	8.32KV_1P_Y1/0_AL	Overhead Line	83.5	230.0000			23.5			5.1			2.2			95.58		5085.8
RHNF3	GR152715	5512683	8.32KV_1P_Y1/0_AL	Overhead Line	18.1	230.0000			4.7			1.0			0.4			95.58		5103.8
RHNF3	GR152718	5560744	8.32KV_1P_Y1/0_AL	Overhead Line	77.9	230.0000			18.8			4.1			1.8			95.58		5163.7
RHNF3	GR152719	5560743	8.32KV_1P_Y1/0_AL	Overhead Line	80.4	230.0000			18.8			4.1			1.8			95.57		5244.1

Feeder Id (Balace)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR152720	5560742	8.32KV_1P_Y1/0_AL	Overhead Line	73.4	230.0000			18.8			4.1			1.8			95.57		5317.5
RHNF3	GR152721	5560741	8.32KV_1P_Y1/0_AL	Overhead Line	82.2	230.0000			14.1			3.1			1.3			95.57		5399.7
RHNF3	GR152722	5560740	8.32KV_1P_Y1/0_AL	Overhead Line	40.4	230.0000			4.7			1.0			0.4			95.57		5440.1
RHNF3	GR152723	5560739	8.32KV_1P_Y1/0_AL	Overhead Line	92.0	230.0000			4.7			1.0			0.4			95.56		5532.1
RHNF3	GR152724	5560738	8.32KV_1P_Y1/0_AL	Overhead Line	64.1	230.0000			4.7			1.0			0.4			95.56		5596.2
RHNF3	GR152725	5560737	8.32KV_1P_Y1/0_AL	Overhead Line	91.4	230.0000			4.7			1.0			0.4			95.56		5687.7
RHNF3	GR152726	5560736	8.32KV_1P_Y1/0_AL	Overhead Line	70.0	230.0000			0.0			0.0			0.0			95.56		5757.6
RHNF3	GR152727	5559320	8.32KV_1P_Y1/0_AL	Overhead Line	77.1	230.0000			0.0			0.0			0.0			95.56		5834.7
RHNF3	GR152728	5559319	8.32KV_1P_Y1/0_AL	Overhead Line	73.5	230.0000			0.0			0.0			0.0			95.56		5908.2
RHNF3	GR152729	5560746	8.32KV_1P_Y1/0_AL	Overhead Line	3.4	230.0000			4.7			1.0			0.4			95.56		5691.0
RHNF3	GR152730	11276155	8.32KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000			4.7			1.0			0.4			95.56		5757.1
RHNF3	GR152731	5560747	8.32KV_1P_Y1/0_AL	Overhead Line	66.8	230.0000			4.7			1.0			0.4			95.56		5823.9
RHNF3	GR152734	5560756	8.32KV_1P_Y1/0_AL	Overhead Line	21.4	230.0000			9.4			2.1			0.9			95.57		5421.1
RHNF3	GR152745	13013630	8.32KV_1P_N1/0_AL	Overhead Line	8.8	230.0000			0.0			0.0			0.0			95.68		4152.1
RHNF3	GR152746	5560049	8.32KV_3P_Y3/0_AL	Overhead Line	78.8	270.0000		167.1	70.8	135.0	36.7	15.4	29.6	13.6	5.7	10.9	94.75	95.72	95.08	4084.9
RHNF3	GR152747	11276645	8.32KV_3P_Y3/0_AL	Overhead Line	4.0	270.0000		167.0	70.8	135.0	36.7	15.4	29.6	13.6	5.7	10.9	94.75	95.72	95.07	4088.9
RHNF3	GR152748	5560051	8.32KV_3P_Y3/0_AL	Overhead Line	4.0	270.0000		167.0	70.8	135.0	36.7	15.4	29.6	13.6	5.7	10.9	94.74	95.72	95.07	4092.9
RHNF3	GR152749	11276643	8.32KV_3P_N3/0_AL	Overhead Line	7.4	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.74	95.72	95.07	4100.2
RHNF3	GR152750	11276644	8.32KV_3P_Y3/0_AL	Overhead Line	76.2	270.0000		167.0	70.8	135.0	36.7	15.4	29.6	13.6	5.7	10.9	94.71	95.71	95.04	4169.0
RHNF3	GR152751	11276250	8.32KV_1P_N1/0_AL	Overhead Line	2.7	230.0000		12.0			2.6			1.1			94.71			4171.8
RHNF3	GR152752	11276320	8.32KV_1P_N1/0_AL	Overhead Line	18.4	230.0000		12.0			2.6			1.1			94.71			4190.1
RHNF3	GR152755	5558245	8.32KV_3P_Y3/0_AL	Overhead Line	86.2	270.0000		155.0	70.8	134.9	34.1	15.4	29.6	12.6	5.7	10.9	94.68	95.70	95.00	4255.2
RHNF3	GR152756	5558246	8.32KV_3P_Y3/0_AL	Overhead Line	77.8	270.0000		155.0	70.8	132.2	34.1	15.4	29.0	12.6	5.7	10.7	94.65	95.69	94.97	4333.0
RHNF3	GR152757	5561041	8.32KV_3P_Y3/0_AL	Overhead Line	54.8	270.0000		154.9	70.8	132.1	34.1	15.4	29.0	12.6	5.7	10.7	94.63	95.69	94.95	4387.8
RHNF3	GR152758	5561042	8.32KV_3P_Y3/0_AL	Overhead Line	56.6	270.0000		154.9	70.8	132.1	34.1	15.4	29.0	12.6	5.7	10.7	94.61	95.68	94.93	4444.4
RHNF3	GR152759	18200366	8.32KV_1P_N1/0_ACSR	Overhead Line	17.9	230.0000		12.0			2.6			1.1			94.61			4462.4
RHNF3	GR152764	5561045	8.32KV_3P_Y3/0_AL	Overhead Line	63.2	270.0000		142.9	70.8	132.1	31.4	15.4	29.0	11.6	5.7	10.7	94.59	95.67	94.90	4507.6
RHNF3	GR152765	5561046	8.32KV_3P_Y3/0_AL	Overhead Line	62.8	270.0000		142.9	70.8	132.0	31.4	15.4	29.0	11.6	5.7	10.7	94.57	95.66	94.88	4570.4
RHNF3	GR152766	5560104	8.32KV_3P_Y3/0_AL	Overhead Line	58.0	270.0000		142.8	70.8	132.0	31.4	15.4	29.0	11.6	5.7	10.7	94.55	95.66	94.85	4628.4
RHNF3	GR152767	5554724	8.32KV_3P_Y3/0_AL	Overhead Line	79.4	270.0000		136.8	70.8	132.0	30.1	15.4	29.0	11.2	5.7	10.7	94.52	95.65	94.82	4707.8
RHNF3	GR152768	5554730	8.32KV_3P_Y3/0_AL	Overhead Line	71.9	270.0000		136.8	70.8	131.9	30.1	15.4	29.0	11.2	5.7	10.7	94.50	95.64	94.79	4779.7
RHNF3	GR152769	5554732	8.32KV_3P_Y3/0_AL	Overhead Line	70.1	270.0000		124.8	70.8	131.9	27.5	15.4	29.0	10.2	5.7	10.7	94.48	95.62	94.77	4849.8
RHNF3	GR152770	5511282	8.32KV_1P_Y1/0_AL	Overhead Line	39.6	230.0000		12.0			2.6			1.1			94.48			4889.4
RHNF3	GR152773	5511284	8.32KV_3P_Y3/0_AL	Overhead Line	86.0	270.0000		112.8	70.8	131.8	24.9	15.4	29.0	9.2	5.7	10.7	94.46	95.61	94.73	4935.8
RHNF3	GR152774	5560306	8.32KV_3P_Y3/0_AL	Overhead Line	62.8	270.0000		112.8	70.8	131.8	24.9	15.4	29.0	9.2	5.7	10.7	94.45	95.60	94.71	4998.5
RHNF3	GR152775	5560307	8.32KV_3P_Y3/0_AL	Overhead Line	61.8	270.0000		112.8	70.8	131.8	24.9	15.4	29.0	9.2	5.7	10.7	94.43	95.59	94.69	5060.3
RHNF3	GR152776	5560262	8.32KV_1P_Y1/0_AL	Overhead Line	20.9	230.0000		4.8			1.1			0.5			94.43			5081.3
RHNF3	GR152777	5560263	8.32KV_1P_Y1/0_AL	Overhead Line	2.4	230.0000		4.8			1.1			0.5			94.43			5083.7
RHNF3	GR152778	11276712	8.32KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000		4.8			1.1			0.5			94.43			5149.7
RHNF3	GR152779	11336653	8.32KV_1P_Y1/0_AL	Overhead Line	83.5	230.0000		2.4			0.5			0.2			94.43			5233.3
RHNF3	GR152784	5560308	8.32KV_3P_Y3/0_AL	Overhead Line	61.5	270.0000		108.0	70.7	131.7	23.8	15.4	29.0	8.8	5.7	10.7	94.42	95.57	94.66	5121.8
RHNF3	GR152785	5560264	8.32KV_1P_Y1/0_AL	Overhead Line	34.2	230.0000		2.4			0.5			0.2			94.42			5156.1
RHNF3	GR152788	5560309	8.32KV_3P_Y3/0_AL	Overhead Line	59.1	270.0000		105.6	70.7	131.7	23.3	15.4	29.0	8.6	5.7	10.7	94.41	95.56	94.64	5181.0
RHNF3	GR152789	5560266	8.32KV_1P_Y1/0_AL	Overhead Line	2.9	230.0000				2.7			0.6			0.3			94.64	5183.9
RHNF3	GR152790	11276719	8.32KV_1P_Y1/0_AL	Overhead Line	52.5	230.0000				2.7			0.6			0.3			94.64	5236.3
RHNF3	GR152791	5560672	8.32KV_1P_Y1/0_AL	Overhead Line	57.5	230.0000				2.7			0.6			0.3			94.64	5293.8
RHNF3	GR152792	5512477	8.32KV_1P_Y1/0_AL	Overhead Line	56.6	230.0000				2.7			0.6			0.3			94.64	5350.4
RHNF3	GR152795	5560310	8.32KV_3P_Y3/0_AL	Overhead Line	71.2	270.0000		105.6	70.7	129.0	23.3	15.4	28.4	8.6	5.7	10.5	94.39	95.55	94.61	5252.1
RHNF3	GR152796	5560464	8.32KV_3P_Y3/0_AL	Overhead Line	76.4	270.0000		105.6	70.7	128.9	23.3	15.4	28.4	8.6	5.7	10.5	94.38	95.53	94.59	5328.5
RHNF3	GR152797	5560465	8.32KV_3P_Y3/0_AL	Overhead Line	70.3	270.0000		105.6	70.7	128.9	23.3	15.4	28.4	8.6	5.7	10.5	94.36	95.52	94.56	5398.8
RHNF3	GR152798	5560466	8.32KV_3P_Y3/0_AL	Overhead Line	70.7	270.0000		105.6	70.7	128.9	23.3	15.4	28.4	8.6	5.7	10.5	94.35	95.51	94.54	5469.5
RHNF3	GR152799	5560467	8.32KV_3P_Y3/0_AL	Overhead Line	64.6	270.0000		105.5	70.7	128.8	23.3	15.4	28.4	8.6	5.7	10.5	94.33	95.49	94.51	5534.1
RHNF3	GR152800	5560468	8.32KV_3P_Y3/0_AL	Overhead Line	81.9	270.0000		105.5	70.7	126.1	23.3	15.4	27.8	8.6	5.7	10.3	94.32	95.48	94.48	5616.0
RHNF3	GR152801	5559864	8.32KV_1P_Y1/0_AL	Overhead Line	3.4	230.0000		12.0			2.6			1.1			94.32			5619.4
RHNF3	GR152802	11279674	8.32KV_1P_Y1/0_AL	Overhead Line	58.7	230.0000		12.0			2.6			1.1			94.31			5678.1
RHNF3	GR152803	5559865	8.32KV_1P_Y1/0_AL	Overhead Line	70.6	230.0000		6.0			1.3			0.6			94.31			5748.8
RHNF3	GR152808	5560469	8.32KV_3P_Y3/0_AL	Overhead Line	74.7	270.0000		93.6	70.7	126.1	20.7	15.4	27.8	7.6	5.7	10.3	94.30	95.46	94.46	5690.7
RHNF3	GR152809	5559866	8.32KV_1P_Y1/0_AL	Overhead Line	21.6	230.0000		2.4			0.5			0.2			94.30			5712.2
RHNF3	GR152810	11276732	8.32KV_1P_Y1/0_AL	Overhead Line	55.0	230.0000		2.4			0.5			0.2			94.30			5767.3
RHNF3	GR152811	5559870	8.32KV_1P_Y1/0_AL	Overhead Line	67.6	230.0000		2.4			0.5			0.2			94.30			5834.9
RHNF3	GR152812	5559871	8.32KV_1P_Y1/0_AL	Overhead Line	61.6	230.0000		2.4			0.5			0.2			94.30			5896.4
RHNF3	GR152813	5512471	8.32KV_1P_Y1/0_AL	Overhead Line	71.8	230.0000		2.4			0.5			0.2			94.30			5968.3
RHNF3	GR152814	5559872	8.32KV_1P_Y1/0_AL	Overhead Line	82.1	230.0000		2.4			0.5			0.2			94.30			6050.3
RHNF3	GR152815	5559882	8.32KV_1P_Y1/0_AL	Overhead Line	69.8	230.0000		2.4			0.5			0.2			94.30			6120.1
RHNF3	GR152816	5559883	8.32KV_1P_Y1/0_AL	Overhead Line	77.2	230.0000		2.4			0.5			0.2			94.30			6197.3
RHNF3	GR152817	5559884	8.32KV_1P_Y1/0_AL	Overhead Line	65.8	230.0000		2.4			0.5			0.2			94.30			6263.1
RHNF3	GR152820	5560470	8.32KV_3P_Y3/0_AL	Overhead Line	80.7	270.0000		91.2	70.7	126.0	20.1	15.4	27.8	7.5	5.7	10.3	94.29	95.45	94.43	5771.4
RHNF3	GR152821	5560471	8.32KV_3P_Y3/0_AL	Overhead Line	50.5	270.0000		91.2	70.7	126.0	20.1	15.4	27.8	7.5	5.7	10.3	94.28	95.43	94.41	5821.8
RHNF3	GR152822	5560472	8.32KV_3P_Y3/0_AL	Overhead Line	51.8	270.0000		91.2	70.7	126.0	20.1	15.4	27.8	7.5	5.7	10.3	94.27	95.42	94.39	5873.6
RHNF3	GR152823	5560473	8.32KV_3P_Y3/0_AL	Overhead Line	49.0	270.0000		85.2	70.7	126.0	18.8	15.4	27.8	7.0	5.7	10.3	94.27	95.41	94.38	5922.7
RHNF3	GR152824	5560474	8.32KV_3P_Y3/0_AL	Overhead Line	70.1	270.0000		85.2	70.7	125.9	18.8	15.4	27.8	7.0	5.7	10.3	94.26	95.40	94.35	5992.7
RHNF3	GR152825	5560475	8.32KV_3P_Y3/0_AL	Overhead Line	63.5	270.0000		85.2	70.6	125.9	18.8	15.4	27.8	7.0	5.7	10.3	94.25	95.38	94.33	6056.2
RHNF3	GR152826	5560476	8.32KV_3P_Y3/0_AL	Overhead Line	61.4	270.0000		73.2	70.6	125.9	16.2	15.4	27.8	6.0	5.7	10.3	94.24	95.37	94.31	6117.6
RHNF3	GR152827	5512476	8.32KV_3P_Y3/0_AL	Overhead Line	77.9	270.0000		73.2	70.6	125.8	16.2	15.4	27.8	6.0	5.7	10.3	94.24	95.35	94.28	6195.4
RHNF3	GR152828	5559888	8.32KV_3P_Y1/0_AL	Overhead Line	30.6	230.0000		73.2	70.6	72.2	16.2	15.4	15.9	7.0	6.7	6.9	94.23	95.34	94.28	6226.0

Feeder Id (Balace)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR152829	5559889	8.32KV_3P_Y1/0_AL	Overhead Line	43.7	230.0000		73.2	70.6	72.2	16.2	15.4	15.9	7.0	6.7	6.9	94.22	95.34	94.27	6269.8
RHNF3	GR152830	5559890	8.32KV_3P_Y1/0_AL	Overhead Line	38.2	230.0000		61.2	61.2	66.7	13.5	13.4	14.7	5.9	5.8	6.4	94.22	95.33	94.27	6308.0
RHNF3	GR152831	5559891	8.32KV_3P_Y1/0_AL	Overhead Line	71.0	230.0000		61.2	61.2	64.0	13.5	13.4	14.1	5.9	5.8	6.1	94.21	95.32	94.26	6379.0
RHNF3	GR152832	5559892	8.32KV_3P_Y1/0_AL	Overhead Line	1.9	230.0000		61.2	61.2	64.0	13.5	13.4	14.1	5.9	5.8	6.1	94.21	95.32	94.26	6380.9
RHNF3	GR152833	11336566	8.32KV_3P_Y1/0_AL	Overhead Line	63.7	230.0000		61.2	61.2	64.0	13.5	13.4	14.1	5.9	5.8	6.1	94.20	95.31	94.25	6444.6
RHNF3	GR152834	5559893	8.32KV_3P_Y1/0_AL	Overhead Line	67.0	230.0000		61.2	61.2	64.0	13.5	13.4	14.1	5.9	5.8	6.1	94.19	95.30	94.24	6511.6
RHNF3	GR152835	5559894	8.32KV_3P_Y1/0_AL	Overhead Line	66.8	230.0000		61.2	61.2	64.0	13.5	13.4	14.1	5.9	5.8	6.1	94.18	95.29	94.23	6578.4
RHNF3	GR152836	5511279	8.32KV_3P_Y1/0_AL	Overhead Line	68.3	230.0000		61.2	61.2	64.0	13.5	13.4	14.1	5.9	5.8	6.1	94.17	95.28	94.22	6646.7
RHNF3	GR152837	5559895	8.32KV_3P_Y1/0_AL	Overhead Line	35.2	230.0000		61.2	61.2	64.0	13.5	13.4	14.1	5.9	5.8	6.1	94.17	95.28	94.21	6681.9
RHNF3	GR152838	17988481	8.32KV_3P_Y1/0_AL	Overhead Line	59.3	230.0000		0.0	0.0	2.7	0.0	0.0	0.6	0.0	0.0	0.3	94.17	95.28	94.21	6741.1
RHNF3	GR152841	5511881	8.32KV_3P_Y1/0_AL	Overhead Line	27.7	230.0000		61.2	61.2	61.2	13.5	13.4	13.5	5.9	5.8	5.9	94.16	95.28	94.21	6709.5
RHNF3	GR152842	5559896	8.32KV_3P_Y1/0_AL	Overhead Line	59.8	230.0000		61.2	61.2	61.2	13.5	13.4	13.5	5.9	5.8	5.9	94.16	95.27	94.20	6769.3
RHNF3	GR152843	5559898	8.32KV_3P_Y1/0_AL	Overhead Line	62.1	230.0000		61.2	61.2	61.2	13.5	13.4	13.5	5.9	5.8	5.9	94.15	95.26	94.19	6831.5
RHNF3	GR152850	5560477	8.32KV_1P_Y1/0_AL	Overhead Line	4.5	230.0000				56.6			12.5			5.4			94.28	6199.9
RHNF3	GR152851	18098483	8.32KV_1P_Y1/0_AL	Overhead Line	47.2	230.0000				56.6			12.5			5.4			94.28	6247.1
RHNF3	GR152852	18097849	8.32KV_1P_Y1/0_AL	Overhead Line	5.6	230.0000				56.6			12.5			5.4			94.28	6252.7
RHNF3	GR152853	5560478	8.32KV_1P_Y1/0_AL	Overhead Line	3.7	230.0000				56.6			12.5			5.4			94.28	6256.4
RHNF3	GR152854	18097843	8.32KV_1P_Y1/0_AL	Overhead Line	31.5	230.0000				56.6			12.5			5.4			94.27	6287.9
RHNF3	GR152855	5560479	8.32KV_1P_Y1/0_AL	Overhead Line	74.7	230.0000				56.6			12.5			5.4			94.27	6362.6
RHNF3	GR152856	5560480	8.32KV_1P_Y1/0_AL	Overhead Line	80.1	230.0000				56.6			12.5			5.4			94.26	6442.7
RHNF3	GR152857	5560481	8.32KV_1P_Y1/0_AL	Overhead Line	86.0	230.0000				56.6			12.5			5.4			94.25	6528.7
RHNF3	GR152858	5511285	8.32KV_1P_Y1/0_AL	Overhead Line	81.5	230.0000				56.6			12.5			5.4			94.24	6610.1
RHNF3	GR152859	5559901	8.32KV_1P_Y1/0_AL	Overhead Line	44.2	230.0000				2.7			0.6			0.3			94.24	6654.4
RHNF3	GR152862	5560482	8.32KV_1P_Y1/0_AL	Overhead Line	81.3	230.0000				54.0			11.9			5.2			94.23	6691.5
RHNF3	GR152863	5560483	8.32KV_1P_Y1/0_AL	Overhead Line	78.1	230.0000				53.0			11.7			5.1			94.22	6769.5
RHNF3	GR152864	5560484	8.32KV_1P_Y1/0_AL	Overhead Line	86.3	230.0000				53.0			11.7			5.1			94.21	6855.8
RHNF3	GR152865	5560485	8.32KV_1P_Y1/0_AL	Overhead Line	87.5	230.0000				53.0			11.7			5.1			94.20	6943.3
RHNF3	GR152866	5560075	8.32KV_1P_Y1/0_AL	Overhead Line	23.6	230.0000				2.7			0.6			0.3			94.20	6967.0
RHNF3	GR152867	11336550	8.32KV_1P_Y1/0_AL	Overhead Line	2.1	230.0000				2.7			0.6			0.3			94.20	6969.1
RHNF3	GR152868	11345759	8.32KV_1P_Y1/0_AL	Overhead Line	71.4	230.0000				2.7			0.6			0.3			94.20	7040.5
RHNF3	GR152869	11345740	8.32KV_1P_Y1/0_AL	Overhead Line	75.3	230.0000				2.7			0.6			0.3			94.20	7115.8
RHNF3	GR152870	5511967	8.32KV_1P_Y1/0_AL	Overhead Line	76.8	230.0000				2.7			0.6			0.3			94.20	7192.6
RHNF3	GR152873	5560076	8.32KV_1P_Y1/0_AL	Overhead Line	2.6	230.0000				10.9			2.4			1.1			94.20	6945.9
RHNF3	GR152874	11336548	8.32KV_1P_Y1/0_AL	Overhead Line	70.1	230.0000				10.9			2.4			1.1			94.20	7016.0
RHNF3	GR152875	5560078	8.32KV_1P_Y1/0_AL	Overhead Line	81.9	230.0000				10.9			2.4			1.1			94.20	7097.9
RHNF3	GR152876	5512473	8.32KV_1P_Y1/0_AL	Overhead Line	80.3	230.0000				10.9			2.4			1.1			94.19	7178.2
RHNF3	GR152877	5560079	8.32KV_1P_Y1/0_AL	Overhead Line	85.2	230.0000				8.2			1.8			0.8			94.19	7263.5
RHNF3	GR152878	5560080	8.32KV_1P_Y1/0_AL	Overhead Line	80.0	230.0000				8.2			1.8			0.8			94.19	7343.4
RHNF3	GR152879	5560081	8.32KV_1P_Y1/0_AL	Overhead Line	70.5	230.0000				8.2			1.8			0.8			94.19	7413.9
RHNF3	GR152884	5560486	8.32KV_1P_Y1/0_AL	Overhead Line	78.9	230.0000				41.0			9.1			3.9			94.20	7022.2
RHNF3	GR152885	5560487	8.32KV_1P_Y1/0_AL	Overhead Line	74.0	230.0000				41.0			9.1			3.9			94.19	7096.2
RHNF3	GR152886	5560488	8.32KV_1P_Y1/0_AL	Overhead Line	81.0	230.0000				38.7			8.6			3.7			94.19	7177.2
RHNF3	GR152887	5560489	8.32KV_1P_Y1/0_AL	Overhead Line	83.1	230.0000				38.7			8.5			3.7			94.19	7260.3
RHNF3	GR152888	5560490	8.32KV_1P_Y1/0_AL	Overhead Line	82.2	230.0000				38.7			8.5			3.7			94.18	7342.5
RHNF3	GR152889	5560491	8.32KV_1P_Y1/0_AL	Overhead Line	82.1	230.0000				38.7			8.5			3.7			94.18	7424.6
RHNF3	GR152890	5560492	8.32KV_1P_Y1/0_AL	Overhead Line	82.8	230.0000				36.5			8.1			3.5			94.17	7507.3
RHNF3	GR152891	5560493	8.32KV_1P_Y1/0_AL	Overhead Line	80.6	230.0000				36.5			8.1			3.5			94.17	7588.0
RHNF3	GR152892	5560494	8.32KV_1P_Y1/0_AL	Overhead Line	70.7	230.0000				36.5			8.1			3.5			94.17	7658.7
RHNF3	GR152893	5560495	8.32KV_1P_Y1/0_AL	Overhead Line	87.6	230.0000				35.6			7.9			3.4			94.17	7746.2
RHNF3	GR152894	5560668	8.32KV_1P_Y1/0_AL	Overhead Line	90.0	230.0000				34.7			7.7			3.3			94.16	7836.2
RHNF3	GR152895	5559690	8.32KV_1P_Y1/0_AL	Overhead Line	83.9	230.0000				32.7			7.2			3.1			94.16	7920.1
RHNF3	GR152896	5559691	8.32KV_1P_Y1/0_AL	Overhead Line	70.8	230.0000				32.6			7.2			3.1			94.16	7990.8
RHNF3	GR152897	5558293	8.32KV_1P_Y1/0_AL	Overhead Line	32.6	230.0000				10.9			2.4			1.1			94.16	8023.4
RHNF3	GR152898	5558292	8.32KV_1P_Y1/0_AL	Overhead Line	85.8	230.0000				10.9			2.4			1.1			94.15	8109.2
RHNF3	GR152899	5554927	8.32KV_1P_Y1/0_AL	Overhead Line	85.6	230.0000				10.9			2.4			1.1			94.15	8194.8
RHNF3	GR152900	5557786	8.32KV_1P_Y1/0_AL	Overhead Line	89.4	230.0000				10.9			2.4			1.1			94.15	8284.2
RHNF3	GR152901	5557791	8.32KV_1P_Y1/0_AL	Overhead Line	90.4	230.0000				8.2			1.8			0.8			94.15	8374.6
RHNF3	GR152902	5557798	8.32KV_1P_Y1/0_AL	Overhead Line	79.5	230.0000				2.7			0.6			0.3			94.15	8454.1
RHNF3	GR152903	5558291	8.32KV_1P_Y1/0_AL	Overhead Line	84.3	230.0000				2.7			0.6			0.3			94.14	8538.4
RHNF3	GR152910	5560089	8.32KV_1P_Y1/0_AL	Overhead Line	66.6	230.0000				39.4			8.7			3.8			94.15	8057.5
RHNF3	GR152911	5560090	8.32KV_1P_Y1/0_AL	Overhead Line	86.5	230.0000				36.6			8.1			3.5			94.14	8144.0
RHNF3	GR152912	5560091	8.32KV_1P_Y1/0_AL	Overhead Line	63.2	230.0000				36.6			8.1			3.5			94.13	8207.2
RHNF3	GR152913	5560092	8.32KV_1P_Y1/0_AL	Overhead Line	81.4	230.0000				33.9			7.5			3.3			94.12	8288.6
RHNF3	GR152914	5560093	8.32KV_1P_Y1/0_AL	Overhead Line	28.3	230.0000				31.1			6.9			3.0			94.12	8316.8
RHNF3	GR152915	5560094	8.32KV_1P_Y1/0_AL	Overhead Line	88.6	230.0000				31.1			6.9			3.0			94.11	8405.4
RHNF3	GR152916	5560095	8.32KV_1P_Y1/0_AL	Overhead Line	83.3	230.0000				28.4			6.3			2.7			94.10	8488.7
RHNF3	GR152917	5560096	8.32KV_1P_Y1/0_AL	Overhead Line	83.6	230.0000				22.9			5.1			2.2			94.10	8572.2
RHNF3	GR152918	5560097	8.32KV_1P_Y1/0_AL	Overhead Line	85.0	230.0000				22.9			5.1			2.2			94.09	8657.2
RHNF3	GR152919	5560098	8.32KV_1P_Y1/0_AL	Overhead Line	81.4	230.0000				22.9			5.1			2.2			94.09	8738.6
RHNF3	GR152920	5512474	8.32KV_1P_Y1/0_AL	Overhead Line	2.6	230.0000				2.7			0.6			0.3			94.09	8741.2
RHNF3	GR152921	11335945	8.32KV_1P_Y1/0_AL	Overhead Line	48.1	230.0000				2.7			0.6			0.3			94.08	8789.3
RHNF3	GR152922	5560099	8.32KV_1P_Y1/0_AL	Overhead Line	75.1	230.0000				2.7			0.6			0.3			94.08	8864.4
RHNF3	GR152923	5560100	8.32KV_1P_Y1/0_AL	Overhead Line	76.4	230.0000				2.7			0.6			0.3			94.08	8940.8
RHNF3	GR152924	5560101	8.32KV_1P_Y1/0_AL	Overhead Line	75.5	230.0000				2.7			0.6			0.3			94.08	9016.2
RHNF3	GR152925	5560102	8.32KV_1P_Y1/0_AL	Overhead Line	73.7	230.0000				2.7			0.6			0.3			94.08	9089.9

Feeder Id (Balace)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR152928	5557921	8.32KV_1P_Y1/0_AL	Overhead Line	84.1	230.0000				20.2			4.5			1.9			94.08	8822.7
RHNF3	GR152929	5557919	8.32KV_1P_Y1/0_AL	Overhead Line	83.6	230.0000				20.2			4.5			1.9			94.07	8906.3
RHNF3	GR152930	5557922	8.32KV_1P_Y1/0_AL	Overhead Line	78.3	230.0000				20.2			4.5			1.9			94.07	8984.6
RHNF3	GR152931	5557923	8.32KV_1P_Y1/0_AL	Overhead Line	36.9	230.0000				17.5			3.9			1.7			94.07	9021.5
RHNF3	GR152932	5557924	8.32KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000				5.5			1.2			0.5			94.07	9024.6
RHNF3	GR152933	11335920	8.32KV_1P_Y1/0_AL	Overhead Line	46.4	230.0000				5.5			1.2			0.5			94.07	9071.0
RHNF3	GR152936	5557925	8.32KV_1P_Y1/0_AL	Overhead Line	32.5	230.0000				1.1			0.2			0.1			94.07	9054.0
RHNF3	GR152937	5558078	8.32KV_1P_Y1/0_AL	Overhead Line	2.1	230.0000				1.1			0.2			0.1			94.07	9056.2
RHNF3	GR152938	11335922	8.32KV_1P_Y1/0_AL	Overhead Line	72.8	230.0000				1.1			0.2			0.1			94.07	9128.9
RHNF3	GR152941	5558079	8.32KV_1P_Y1/0_AL	Overhead Line	80.5	230.0000				10.9			2.4			1.0			94.06	9102.0
RHNF3	GR152942	5558080	8.32KV_1P_Y1/0_AL	Overhead Line	79.9	230.0000				10.9			2.4			1.0			94.06	9182.0
RHNF3	GR152943	5558081	8.32KV_1P_Y1/0_AL	Overhead Line	85.3	230.0000				10.9			2.4			1.1			94.06	9267.2
RHNF3	GR152944	5561109	8.32KV_1P_Y1/0_AL	Overhead Line	61.8	230.0000				10.9			2.4			1.1			94.06	9329.0
RHNF3	GR152945	5561110	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000				2.7			0.6			0.3			94.06	9331.8
RHNF3	GR152946	11335918	8.32KV_1P_Y1/0_AL	Overhead Line	65.6	230.0000				2.7			0.6			0.3			94.06	9397.4
RHNF3	GR152947	5561111	8.32KV_1P_Y1/0_AL	Overhead Line	73.8	230.0000				2.7			0.6			0.3			94.05	9471.2
RHNF3	GR152948	5561112	8.32KV_1P_Y1/0_AL	Overhead Line	86.1	230.0000				2.7			0.6			0.3			94.05	9557.3
RHNF3	GR152949	5561113	8.32KV_1P_Y1/0_AL	Overhead Line	85.4	230.0000				2.7			0.6			0.3			94.05	9642.7
RHNF3	GR152952	5561114	8.32KV_1P_Y1/0_AL	Overhead Line	71.1	230.0000				8.2			1.8			0.8			94.05	9400.2
RHNF3	GR152953	5512482	8.32KV_1P_Y1/0_AL	Overhead Line	65.5	230.0000				8.2			1.8			0.8			94.05	9465.7
RHNF3	GR152954	5561115	8.32KV_1P_Y1/0_AL	Overhead Line	64.8	230.0000				8.2			1.8			0.8			94.05	9530.5
RHNF3	GR152955	5561116	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000				8.2			1.8			0.8			94.05	9573.6
RHNF3	GR152956	5561117	8.32KV_1P_Y1/0_AL	Overhead Line	74.5	230.0000				5.5			1.2			0.5			94.05	9648.1
RHNF3	GR152957	5561118	8.32KV_1P_Y1/0_AL	Overhead Line	70.7	230.0000				2.7			0.6			0.3			94.05	9718.8
RHNF3	GR152958	5561119	8.32KV_1P_Y1/0_AL	Overhead Line	47.0	230.0000				2.7			0.6			0.3			94.05	9765.8
RHNF3	GR152959	5561120	8.32KV_1P_Y1/0_AL	Overhead Line	53.5	230.0000				2.7			0.6			0.3			94.05	9819.2
RHNF3	GR152960	5557876	8.32KV_1P_Y1/0_AL	Overhead Line	68.8	230.0000				2.7			0.6			0.3			94.05	9888.0
RHNF3	GR152961	5557877	8.32KV_1P_Y1/0_AL	Overhead Line	66.8	230.0000				2.7			0.6			0.3			94.05	9954.8
RHNF3	GR152962	5511480	8.32KV_1P_Y1/0_AL	Overhead Line	69.0	230.0000				2.7			0.6			0.3			94.04	10023.8
RHNF3	GR152963	5557878	8.32KV_1P_Y1/0_AL	Overhead Line	48.0	230.0000				0.0			0.0			0.0			94.04	10071.8
RHNF3	GR152964	5507786	8.32KV_1P_Y1/0_AL	Overhead Line	54.6	230.0000				0.0			0.0			0.0			94.04	10126.3
RHNF3	GR152975	5560911	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000				2.7			0.6			0.3			94.11	8408.0
RHNF3	GR152976	11335964	8.32KV_1P_Y1/0_AL	Overhead Line	17.5	230.0000				2.7			0.6			0.3			94.11	8425.6
RHNF3	GR152977	5561089	8.32KV_1P_Y1/0_AL	Overhead Line	81.7	230.0000				2.7			0.6			0.3			94.11	8507.3
RHNF3	GR152978	5561091	8.32KV_1P_Y1/0_AL	Overhead Line	72.4	230.0000				2.7			0.6			0.3			94.11	8579.7
RHNF3	GR152987	5560885	8.32KV_1P_Y1/0_AL	Overhead Line	56.7	230.0000				36.2			8.0			3.5			94.17	8047.5
RHNF3	GR152988	5560886	8.32KV_1P_Y1/0_AL	Overhead Line	47.6	230.0000				38.4			8.5			3.7			94.17	8095.1
RHNF3	GR152989	5560887	8.32KV_1P_Y1/0_AL	Overhead Line	67.5	230.0000				40.7			9.0			3.9			94.19	8162.5
RHNF3	GR152991	5560888	8.32KV_1P_Y1/0_AL	Overhead Line	71.2	230.0000				40.7			9.0			3.9			94.20	8233.7
RHNF3	GR152992	5560889	8.32KV_1P_Y1/0_AL	Overhead Line	72.6	230.0000				43.0			9.5			4.1			94.21	8306.3
RHNF3	GR152993	5560890	8.32KV_1P_Y1/0_AL	Overhead Line	68.2	230.0000				45.4			10.0			4.4			94.22	8374.5
RHNF3	GR152994	5560891	8.32KV_1P_Y1/0_AL	Overhead Line	74.3	230.0000				50.3			11.1			4.8			94.24	8448.8
RHNF3	GR152995	5560892	8.32KV_1P_Y1/0_AL	Overhead Line	78.6	230.0000				50.3			11.1			4.8			94.25	8527.5
RHNF3	GR152996	5560893	8.32KV_1P_Y1/0_AL	Overhead Line	81.1	230.0000				50.3			11.1			4.8			94.27	8608.6
RHNF3	GR152997	5560894	8.32KV_1P_Y1/0_AL	Overhead Line	83.8	230.0000				51.3			11.3			4.9			94.29	8692.3
RHNF3	GR152998	5560895	8.32KV_1P_Y1/0_AL	Overhead Line	71.9	230.0000				51.3			11.3			4.9			94.30	8764.2
RHNF3	GR152999	5512480	8.32KV_1P_Y1/0_AL	Overhead Line	77.3	230.0000				51.3			11.3			4.9			94.32	8841.5
RHNF3	GR153000	5560896	8.32KV_1P_Y1/0_AL	Overhead Line	78.3	230.0000				51.3			11.3			4.9			94.34	8919.8
RHNF3	GR153001	5560897	8.32KV_1P_Y1/0_AL	Overhead Line	83.4	230.0000				51.3			11.3			4.9			94.35	9003.2
RHNF3	GR153002	5560898	8.32KV_1P_Y1/0_AL	Overhead Line	67.6	230.0000				53.8			11.9			5.2			94.37	9070.8
RHNF3	GR153003	5560899	8.32KV_1P_Y1/0_AL	Overhead Line	77.3	230.0000				56.3			12.4			5.4			94.38	9148.1
RHNF3	GR153004	5560900	8.32KV_1P_Y1/0_AL	Overhead Line	56.6	230.0000				56.3			12.4			5.4			94.40	9204.7
RHNF3	GR153005	5560901	8.32KV_1P_Y1/0_AL	Overhead Line	61.2	230.0000				56.3			12.4			5.4			94.41	9265.9
RHNF3	GR153006	5560902	8.32KV_1P_Y1/0_AL	Overhead Line	71.3	230.0000				56.3			12.4			5.4			94.43	9337.2
RHNF3	GR153007	5559255	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000				97.5			21.5			9.3			94.44	9380.3
RHNF3	GR153008	5559471	8.32KV_1P_Y1/0_AL	Overhead Line	68.4	230.0000				97.6			21.5			9.3			94.47	9448.6
RHNF3	GR153009	5559470	8.32KV_1P_Y1/0_AL	Overhead Line	71.3	230.0000				97.6			21.5			9.3			94.49	9519.9
RHNF3	GR153010	5559468	8.32KV_1P_Y1/0_AL	Overhead Line	71.1	230.0000				100.3			22.1			9.6			94.52	9591.0
RHNF3	GR153011	5559467	8.32KV_1P_Y1/0_AL	Overhead Line	60.4	230.0000				103.0			22.7			9.9			94.54	9651.4
RHNF3	GR153012	5559292	8.32KV_1P_Y1/0_AL	Overhead Line	70.5	230.0000				105.7			23.3			10.1			94.57	9721.9
RHNF3	GR153013	5559290	8.32KV_1P_Y1/0_AL	Overhead Line	81.5	230.0000				108.4			23.9			10.4			94.60	9803.4
RHNF3	GR153014	5560062	8.32KV_1P_Y1/0_AL	Overhead Line	37.9	230.0000				2.7			0.6			0.3			94.60	9841.3
RHNF3	GR153015	5560063	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000				2.7			0.6			0.3			94.60	9843.9
RHNF3	GR153016	11263652	8.32KV_1P_Y1/0_AL	Overhead Line	75.3	230.0000				2.7			0.6			0.3			94.60	9919.2
RHNF3	GR153023	5560064	8.32KV_1P_Y1/0_AL	Overhead Line	2.6	230.0000				2.7			0.6			0.3			94.52	9593.6
RHNF3	GR153024	11263667	8.32KV_1P_Y1/0_AL	Overhead Line	20.7	230.0000				2.7			0.6			0.3			94.52	9614.3
RHNF3	GR153025	5511512	8.32KV_1P_Y1/0_AL	Overhead Line	38.4	230.0000				2.7			0.6			0.3			94.52	9652.7
RHNF3	GR153030	5559256	8.32KV_1P_Y1/0_AL	Overhead Line	15.9	230.0000				43.2			9.5			4.1			94.42	9353.1
RHNF3	GR153031	5559257	8.32KV_1P_Y1/0_AL	Overhead Line	101.1	230.0000				40.5			8.9			3.9			94.41	9454.2
RHNF3	GR153032	5559275	8.32KV_1P_Y1/0_AL	Overhead Line	4.6	230.0000				40.5			8.9			3.9			94.41	9458.7
RHNF3	GR153033	18098592	8.32KV_1P_Y1/0_AL	Overhead Line	82.0	230.0000				40.5			8.9			3.9			94.40	9540.8
RHNF3	GR153034	5559713	8.32KV_1P_Y1/0_AL	Overhead Line	93.1	230.0000				40.5			8.9			3.9			94.39	9633.9
RHNF3	GR153035	5560116	8.32KV_1P_Y1/0_AL	Overhead Line	2.6	230.0000				37.7			8.3			3.6			94.39	9636.5
RHNF3	GR153036	18098577	8.32KV_1P_Y1/0_AL	Overhead Line	87.7	230.0000				37.7			8.3			3.6			94.38	9724.2
RHNF3	GR153037	5559533	8.32KV_1P_Y1/0_AL	Overhead Line	89.8	230.0000				37.7			8.3			3.6			94.37	9814.0

Feeder Id (Balace)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR153038	5559535	8.32KV_1P_Y1/0_AL	Overhead Line	90.3	230.0000				37.7			8.3			3.6			94.35	9904.3
RHNF3	GR153039	5559536	8.32KV_1P_Y1/0_AL	Overhead Line	91.0	230.0000				37.7			8.3			3.6			94.34	9995.3
RHNF3	GR153040	5559714	8.32KV_1P_Y1/0_AL	Overhead Line	94.2	230.0000				37.7			8.3			3.6			94.33	10089.4
RHNF3	GR153041	5559715	8.32KV_1P_Y1/0_AL	Overhead Line	89.7	230.0000				35.0			7.7			3.4			94.32	10179.1
RHNF3	GR153042	5559716	8.32KV_1P_Y1/0_AL	Overhead Line	90.5	230.0000				35.0			7.7			3.4			94.31	10269.6
RHNF3	GR153043	5559749	8.32KV_1P_Y1/0_AL	Overhead Line	92.5	230.0000				35.0			7.7			3.4			94.30	10362.1
RHNF3	GR153044	5559750	8.32KV_1P_Y1/0_AL	Overhead Line	91.1	230.0000				35.0			7.7			3.4			94.29	10453.2
RHNF3	GR153045	5559751	8.32KV_1P_Y1/0_AL	Overhead Line	91.2	230.0000				35.0			7.7			3.4			94.28	10544.4
RHNF3	GR153046	5559711	8.32KV_1P_Y1/0_AL	Overhead Line	94.0	230.0000				35.0			7.7			3.4			94.27	10638.4
RHNF3	GR153047	5512674	8.32KV_1P_Y1/0_AL	Overhead Line	87.1	230.0000				35.0			7.7			3.4			94.26	10725.5
RHNF3	GR153048	5559920	8.32KV_1P_Y1/0_AL	Overhead Line	80.4	230.0000				35.0			7.7			3.4			94.25	10805.9
RHNF3	GR153049	5558724	8.32KV_1P_Y1/0_AL	Overhead Line	39.9	230.0000				20.2			4.5			1.9			94.25	10845.8
RHNF3	GR153050	5508232	8.32KV_1P_Y1/0_AL	Overhead Line	45.1	230.0000				19.1			4.2			1.8			94.24	10890.9
RHNF3	GR153051	5558725	8.32KV_1P_Y1/0_AL	Overhead Line	37.6	230.0000				19.1			4.2			1.8			94.24	10928.5
RHNF3	GR153052	5558727	8.32KV_1P_Y1/0_AL	Overhead Line	36.4	230.0000				19.1			4.2			1.8			94.24	10964.9
RHNF3	GR153053	5558728	8.32KV_1P_Y1/0_AL	Overhead Line	40.9	230.0000				16.4			3.6			1.6			94.24	11005.8
RHNF3	GR153054	5558730	8.32KV_1P_Y1/0_AL	Overhead Line	82.7	230.0000				16.4			3.6			1.6			94.23	11088.5
RHNF3	GR153055	5558731	8.32KV_1P_Y1/0_AL	Overhead Line	76.6	230.0000				13.6			3.0			1.3			94.23	11165.0
RHNF3	GR153056	5558732	8.32KV_1P_Y1/0_AL	Overhead Line	92.4	230.0000				13.6			3.0			1.3			94.23	11257.4
RHNF3	GR153057	5558733	8.32KV_1P_Y1/0_AL	Overhead Line	92.4	230.0000				13.7			3.0			1.3			94.22	11349.9
RHNF3	GR153058	5559933	8.32KV_1P_Y1/0_AL	Overhead Line	91.9	230.0000				13.7			3.0			1.3			94.22	11441.7
RHNF3	GR153059	5559934	8.32KV_1P_Y1/0_AL	Overhead Line	94.1	230.0000				13.7			3.0			1.3			94.21	11535.8
RHNF3	GR153060	5559935	8.32KV_1P_Y1/0_AL	Overhead Line	47.5	230.0000				13.7			3.0			1.3			94.21	11583.3
RHNF3	GR153061	11590408	8.32KV_1P_Y1/0_AL	Overhead Line	43.2	230.0000				8.2			1.8			0.8			94.21	11626.4
RHNF3	GR153062	5559936	8.32KV_1P_Y1/0_AL	Overhead Line	93.1	230.0000				8.2			1.8			0.8			94.21	11719.5
RHNF3	GR153063	5559937	8.32KV_1P_Y1/0_AL	Overhead Line	91.3	230.0000				8.2			1.8			0.8			94.21	11810.8
RHNF3	GR153064	5559938	8.32KV_1P_Y1/0_AL	Overhead Line	56.0	230.0000				8.2			1.8			0.8			94.20	11866.8
RHNF3	GR153065	12976897	8.32KV_1P_Y1/0_AL	Overhead Line	48.5	230.0000				5.5			1.2			0.5			94.20	11915.3
RHNF3	GR153066	19057632	8.32KV_1P_Y1/0_AL	Overhead Line	43.7	230.0000				2.7			0.6			0.3			94.20	11959.0
RHNF3	GR153067	19057641	8.32KV_1P_Y1/0_AL	Overhead Line	60.1	230.0000				2.7			0.6			0.3			94.20	12019.1
RHNF3	GR153072	5559939	8.32KV_1P_Y1/0_AL	Overhead Line	41.2	230.0000				2.7			0.6			0.3			94.20	11908.0
RHNF3	GR153075	11590481	8.32KV_1P_N1/0_AL	Overhead Line	3.5	230.0000				5.5			1.2			0.5			94.21	11586.7
RHNF3	GR153076	11590521	8.32KV_1P_N1/0_AL	Overhead Line	17.9	230.0000				5.5			1.2			0.5			94.21	11604.6
RHNF3	GR153077	11590489	8.32KV_1P_N1/0_AL	Overhead Line	82.3	230.0000				5.5			1.2			0.5			94.21	11686.9
RHNF3	GR153078	11590488	8.32KV_1P_N1/0_AL	Overhead Line	78.7	230.0000				5.5			1.2			0.5			94.21	11765.6
RHNF3	GR153079	11590487	8.32KV_1P_N1/0_AL	Overhead Line	71.7	230.0000				5.5			1.2			0.5			94.21	11837.3
RHNF3	GR153080	11590486	8.32KV_1P_N1/0_AL	Overhead Line	81.6	230.0000				5.5			1.2			0.5			94.21	11918.9
RHNF3	GR153081	11590485	8.32KV_1P_N1/0_AL	Overhead Line	79.1	230.0000				5.5			1.2			0.5			94.20	11997.9
RHNF3	GR153082	11590484	8.32KV_1P_N1/0_AL	Overhead Line	81.9	230.0000				5.5			1.2			0.5			94.20	12079.9
RHNF3	GR153091	5559519	8.32KV_1P_Y1/0_AL	Overhead Line	24.7	230.0000				14.8			3.3			1.4			94.25	10830.6
RHNF3	GR153092	5560122	8.32KV_1P_Y1/0_AL	Overhead Line	84.5	230.0000				14.8			3.3			1.4			94.24	10915.1
RHNF3	GR153093	5559344	8.32KV_1P_Y1/0_AL	Overhead Line	89.0	230.0000				12.0			2.7			1.2			94.24	11004.0
RHNF3	GR153094	5559345	8.32KV_1P_Y1/0_AL	Overhead Line	46.3	230.0000				12.0			2.7			1.2			94.24	11050.3
RHNF3	GR153095	5559499	8.32KV_1P_Y1/0_AL	Overhead Line	65.2	230.0000				10.9			2.4			1.0			94.24	11115.4
RHNF3	GR153096	5559500	8.32KV_1P_Y1/0_AL	Overhead Line	63.6	230.0000				10.9			2.4			1.0			94.23	11179.0
RHNF3	GR153097	5559501	8.32KV_1P_Y1/0_AL	Overhead Line	2.9	230.0000				1.6			0.4			0.2			94.23	11182.0
RHNF3	GR153098	11280008	8.32KV_1P_Y1/0_AL	Overhead Line	90.3	230.0000				1.6			0.4			0.2			94.23	11272.3
RHNF3	GR153099	5559502	8.32KV_1P_Y1/0_AL	Overhead Line	57.8	230.0000				0.0			0.0			0.0			94.23	11330.0
RHNF3	GR153102	5559503	8.32KV_1P_Y1/0_AL	Overhead Line	69.2	230.0000				9.3			2.1			0.9			94.23	11248.2
RHNF3	GR153103	5559504	8.32KV_1P_Y1/0_AL	Overhead Line	77.0	230.0000				6.6			1.4			0.6			94.23	11325.2
RHNF3	GR153104	5559521	8.32KV_1P_Y1/0_AL	Overhead Line	75.9	230.0000				6.6			1.4			0.6			94.23	11401.2
RHNF3	GR153105	5559522	8.32KV_1P_Y1/0_AL	Overhead Line	89.0	230.0000				3.8			0.8			0.4			94.23	11490.1
RHNF3	GR153106	5559523	8.32KV_1P_Y1/0_AL	Overhead Line	77.9	230.0000				3.8			0.8			0.4			94.23	11568.1
RHNF3	GR153107	5559524	8.32KV_1P_Y1/0_AL	Overhead Line	74.5	230.0000				2.7			0.6			0.3			94.23	11642.6
RHNF3	GR153124	5559276	8.32KV_1P_Y1/0_AL	Overhead Line	58.2	230.0000				2.7			0.6			0.3			94.42	9411.3
RHNF3	GR153125	5559277	8.32KV_1P_Y1/0_AL	Overhead Line	54.5	230.0000				2.7			0.6			0.3			94.42	9465.8
RHNF3	GR153128	5560903	8.32KV_1P_Y1/0_AL	Overhead Line	3.5	230.0000				2.7			0.6			0.3			94.37	9074.3
RHNF3	GR153129	11263690	8.32KV_1P_Y1/0_AL	Overhead Line	39.4	230.0000				2.7			0.6			0.3			94.37	9113.7
RHNF3	GR153130	5511478	8.32KV_1P_Y1/0_AL	Overhead Line	56.9	230.0000				2.7			0.6			0.3			94.37	9170.6
RHNF3	GR153135	5560904	8.32KV_1P_Y1/0_AL	Overhead Line	40.3	230.0000				1.1			0.2			0.1			94.27	8648.8
RHNF3	GR153140	5560908	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000				2.7			0.6			0.3			94.21	8309.0
RHNF3	GR153141	11336538	8.32KV_1P_Y1/0_AL	Overhead Line	64.0	230.0000				2.7			0.6			0.3			94.21	8373.0
RHNF3	GR153149	5560909	8.32KV_1P_Y1/0_AL	Overhead Line	16.6	230.0000				2.7			0.6			0.3			94.17	8064.1
RHNF3	GR153170	5560673	8.32KV_1P_Y1/0_AL	Overhead Line	2.9	230.0000				2.7			0.6			0.3			94.51	5537.0
RHNF3	GR153171	11276728	8.32KV_1P_Y1/0_AL	Overhead Line	13.6	230.0000				2.7			0.6			0.3			94.51	5550.5
RHNF3	GR153172	5511287	8.32KV_1P_Y1/0_AL	Overhead Line	72.0	230.0000				2.7			0.6			0.3			94.51	5622.6
RHNF3	GR153173	5559863	8.32KV_1P_Y1/0_AL	Overhead Line	61.6	230.0000				2.7			0.6			0.3			94.51	5684.1
RHNF3	GR153178	5560103	8.32KV_1P_Y1/0_AL	Overhead Line	3.2	230.0000		6.0			1.3			0.6			94.55				4631.6
RHNF3	GR153179	11276708	8.32KV_1P_Y1/0_AL	Overhead Line	20.4	230.0000		6.0			1.3			0.6			94.55				4652.1
RHNF3	GR153184	11276649	8.32KV_3P_N3/0_AL	Overhead Line	6.9	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.75	95.72	95.08	4091.8
RHNF3	GR153185	5561047	8.32KV_3P_Y3/0_AL	Overhead Line	34.0	270.0000		294.5	228.6	229.4	64.7	49.7	50.2	24.0	18.4	18.6	94.75	95.71	95.09	4040.0
RHNF3	GR153186	5561048	8.32KV_3P_Y3/0_AL	Overhead Line	31.6	270.0000		294.5	226.7	229.4	64.7	49.3	50.2	24.0	18.3	18.6	94.73	95.70	95.07	4071.6
RHNF3	GR153187	5561049	8.32KV_3P_Y3/0_AL	Overhead Line	70.7	270.0000		294.4	226.7	229.3	64.7	49.3	50.2	24.0	18.3	18.6	94.67	95.66	95.03	4142.2
RHNF3	GR153188	11341131	8.32KV_3P_Y3/0_AL	Overhead Line	36.3	270.0000		294.2	226.6	229.2	64.7	49.3	50.2	24.0	18.3	18.6	94.64	95.65	95.00	4178.5
RHNF3	GR153189	18196746	8.32KV_3P_N1/0_AL	Overhead Line	6.5	230.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.64	95.65	95.00	4185.0

Feeder Id (Balace)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR153190	18996546	8.32KV_3P_Y3/0_AL	Overhead Line	3.9	270.0000		294.1	226.6	229.2	64.7	49.3	50.2	24.0	18.3	18.6	94.63	95.65	95.00	4182.4
RHNF3	GR153191	18996542	8.32KV_3P_Y3/0_AL	Overhead Line	4.0	270.0000		294.1	226.6	229.2	64.7	49.3	50.2	24.0	18.3	18.6	94.63	95.64	95.00	4186.4
RHNF3	GR153192	18196745	8.32KV_3P_N1/0_AL	Overhead Line	6.4	230.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.63	95.64	95.00	4192.9
RHNF3	GR153193	18996533	8.32KV_3P_Y3/0_AL	Overhead Line	59.0	270.0000		294.1	226.6	229.2	64.7	49.3	50.2	24.0	18.3	18.6	94.58	95.62	94.96	4245.4
RHNF3	GR153194	5561054	8.32KV_3P_Y3/0_AL	Overhead Line	103.0	270.0000		293.9	226.5	229.1	64.7	49.3	50.2	24.0	18.3	18.6	94.49	95.57	94.90	4348.5
RHNF3	GR153195	5561055	8.32KV_3P_Y3/0_AL	Overhead Line	68.8	270.0000		293.7	226.4	228.9	64.7	49.3	50.2	24.0	18.3	18.6	94.44	95.54	94.85	4417.2
RHNF3	GR153196	5561056	8.32KV_3P_Y3/0_AL	Overhead Line	71.7	270.0000		293.5	226.3	228.8	64.7	49.3	50.2	24.0	18.3	18.6	94.38	95.51	94.81	4488.9
RHNF3	GR153197	5561057	8.32KV_3P_Y3/0_AL	Overhead Line	68.3	270.0000		293.3	226.3	228.7	64.7	49.3	50.2	24.0	18.3	18.6	94.32	95.48	94.77	4557.2
RHNF3	GR153198	5509386	8.32KV_3P_Y3/0_AL	Overhead Line	74.1	270.0000		293.1	221.5	228.6	64.7	48.3	50.2	24.0	17.9	18.6	94.26	95.45	94.72	4631.3
RHNF3	GR153199	5511210	8.32KV_3P_Y3/0_AL	Overhead Line	26.7	270.0000		292.9	221.4	228.5	64.7	48.3	50.2	24.0	17.9	18.6	94.24	95.44	94.70	4658.0
RHNF3	GR153200	5511209	8.32KV_3P_Y3/0_AL	Overhead Line	38.0	270.0000		292.9	145.9	228.5	64.7	31.8	50.2	24.0	11.8	18.6	94.21	95.43	94.67	4696.0
RHNF3	GR153201	5511208	8.32KV_3P_Y3/0_AL	Overhead Line	70.0	270.0000		292.8	145.9	228.4	64.7	31.8	50.2	24.0	11.8	18.6	94.15	95.42	94.62	4766.0
RHNF3	GR153202	5509414	8.32KV_3P_N1/0_AL	Overhead Line	3.3	230.0000		27.4	27.4	27.4	6.1	6.0	6.0	2.6	2.6	2.6	94.15	95.42	94.62	4769.4
RHNF3	GR153207	5512623	8.32KV_3P_Y3/0_AL	Overhead Line	63.1	270.0000		265.2	118.5	200.8	58.6	25.9	44.2	21.7	9.6	16.4	94.11	95.41	94.58	4829.1
RHNF3	GR153208	5511213	8.32KV_3P_Y3/0_AL	Overhead Line	77.3	270.0000		262.7	118.5	200.8	58.1	25.9	44.2	21.5	9.6	16.4	94.06	95.40	94.52	4906.4
RHNF3	GR153209	5511215	8.32KV_3P_Y3/0_AL	Overhead Line	64.4	270.0000		260.1	118.5	200.6	57.6	25.9	44.2	21.3	9.6	16.4	94.01	95.40	94.48	4970.8
RHNF3	GR153210	5511216	8.32KV_3P_Y3/0_AL	Overhead Line	41.4	270.0000		260.0	118.5	200.6	57.6	25.9	44.2	21.3	9.6	16.4	93.98	95.39	94.45	5012.2
RHNF3	GR153211	5511391	8.32KV_1P_Y1/0_AL	Overhead Line	25.0	230.0000				5.5			1.2			0.5			94.45	5037.2
RHNF3	GR153217	5512781	8.32KV_3P_N1/0_AL	Overhead Line	2.9	230.0000		11.9	9.4	5.5	2.6	2.0	1.2	1.1	0.9	0.5	93.98	95.39	94.45	5015.0
RHNF3	GR153222	5513385	8.32KV_3P_Y3/0_AL	Overhead Line	38.3	270.0000		248.1	109.1	189.6	54.9	23.8	41.8	20.4	8.8	15.5	93.96	95.39	94.42	5050.4
RHNF3	GR153223	5511217	8.32KV_3P_Y3/0_AL	Overhead Line	37.3	270.0000		248.0	109.1	189.5	54.9	23.8	41.8	20.4	8.8	15.5	93.93	95.39	94.40	5087.7
RHNF3	GR153224	5511218	8.32KV_3P_Y3/0_AL	Overhead Line	39.1	270.0000		247.9	109.1	186.7	54.9	23.8	41.2	20.4	8.8	15.3	93.91	95.38	94.37	5126.8
RHNF3	GR153225	5511219	8.32KV_3P_Y3/0_AL	Overhead Line	95.5	270.0000		247.9	109.1	184.0	54.9	23.8	40.6	20.4	8.8	15.0	93.84	95.38	94.31	5222.3
RHNF3	GR153226	5512034	8.32KV_3P_Y3/0_AL	Overhead Line	86.0	270.0000		247.7	109.1	183.8	54.9	23.8	40.6	20.4	8.8	15.0	93.79	95.37	94.26	5308.3
RHNF3	GR153227	5511220	8.32KV_3P_Y3/0_AL	Overhead Line	78.2	270.0000		247.6	109.1	183.7	54.9	23.8	40.6	20.4	8.8	15.0	93.74	95.36	94.21	5386.5
RHNF3	GR153228	5511221	8.32KV_3P_Y3/0_AL	Overhead Line	34.9	270.0000		247.4	109.1	183.6	54.9	23.8	40.6	20.4	8.8	15.0	93.71	95.36	94.19	5421.4
RHNF3	GR153229	5511222	8.32KV_3P_Y3/0_AL	Overhead Line	16.7	270.0000		247.4	109.1	183.6	55.0	23.8	40.6	20.4	8.8	15.0	93.70	95.36	94.18	5438.0
RHNF3	GR153230	16477209	DEFAULT	Overhead Line	61.1	1000.0000		247.3	109.1	183.6	55.0	23.8	40.6	5.5	2.4	4.1	93.63	95.34	94.11	5499.2
RHNF3	GR153231	16365251	DEFAULT	Overhead Line	16.2	1000.0000		247.1	109.1	175.3	55.0	23.8	38.8	5.5	2.4	3.9	93.61	95.33	94.10	5515.3
RHNF3	GR153232	16365091	DEFAULT	Overhead Line	21.1	1000.0000		59.9	37.7	16.4	13.3	8.2	3.6	1.3	0.8	0.4	93.60	95.33	94.10	5536.4
RHNF3	GR153233	16365089	DEFAULT	Overhead Line	50.8	1000.0000		59.9	37.7	16.4	13.3	8.2	3.6	1.3	0.8	0.4	93.58	95.32	94.09	5587.2
RHNF3	GR153234	16365082	DEFAULT	Overhead Line	61.3	1000.0000		59.9	28.3	16.4	13.3	6.2	3.6	1.3	0.6	0.4	93.56	95.32	94.09	5648.5
RHNF3	GR153235	16365077	DEFAULT	Overhead Line	49.3	1000.0000		59.9	28.3	16.4	13.3	6.2	3.6	1.3	0.6	0.4	93.54	95.32	94.08	5697.8
RHNF3	GR153236	16365075	DEFAULT	Overhead Line	61.1	1000.0000		59.9	28.3	16.4	13.3	6.2	3.6	1.3	0.6	0.4	93.52	95.31	94.08	5758.9
RHNF3	GR153237	16365003	DEFAULT	Overhead Line	30.1	1000.0000		0.0	9.4	5.5	0.0	2.1	1.2	0.0	0.2	0.1	93.52	95.31	94.08	5789.0
RHNF3	GR153238	16365004	DEFAULT	Overhead Line	32.4	1000.0000		0.0	9.4	5.5	0.0	2.1	1.2	0.0	0.2	0.1	93.52	95.31	94.08	5821.4
RHNF3	GR153239	16365005	DEFAULT	Overhead Line	42.4	1000.0000		0.0	9.4	5.5	0.0	2.1	1.2	0.0	0.2	0.1	93.52	95.31	94.08	5863.8
RHNF3	GR153240	16477221	DEFAULT	Overhead Line	59.1	1000.0000		0.0	9.4	5.5	0.0	2.1	1.2	0.0	0.2	0.1	93.52	95.30	94.08	5922.9
RHNF3	GR153241	16364944	DEFAULT	Overhead Line	63.7	1000.0000		0.0	9.4	0.0	0.0	2.1	0.0	0.0	0.2	0.0	93.52	95.30	94.08	5986.6
RHNF3	GR153242	16364892	DEFAULT	Overhead Line	37.4	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.52	95.30	94.08	6024.1
RHNF3	GR153243	16364891	DEFAULT	Overhead Line	36.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.52	95.30	94.08	6060.1
RHNF3	GR153244	16364890	DEFAULT	Overhead Line	54.3	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.52	95.30	94.08	6114.4
RHNF3	GR153246	5559046	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000			9.4			2.1			0.9			95.30		6015.1
RHNF3	GR153253	5511631	8.32KV_3P_N1/0_AL	Overhead Line	5.7	230.0000		59.9	18.8	10.9	13.3	4.1	2.4	5.8	1.8	1.1	93.52	95.31	94.08	5764.6
RHNF3	GR153282	16365250	DEFAULT	Overhead Line	27.1	1000.0000		0.0	0.0	124.7	0.0	0.0	27.6	0.0	0.0	2.8	93.61	95.33	94.08	5542.4
RHNF3	GR153283	16368943	DEFAULT	Overhead Line	30.4	1000.0000				124.7			27.6			2.8			94.06	5572.8
RHNF3	GR153284	16361807	8.32KV_1P_Y1/0_AL	Overhead Line	65.0	230.0000				124.7			27.6			12.0			94.03	5637.8
RHNF3	GR153285	11240921	8.32KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000				124.6			27.6			12.0			94.03	5640.6
RHNF3	GR153286	5512832	8.32KV_1P_Y1/0_AL	Overhead Line	15.3	230.0000				124.6			27.6			12.0			94.02	5655.9
RHNF3	GR153287	5512833	8.32KV_1P_Y1/0_AL	Overhead Line	67.2	230.0000				119.9			26.5			11.5			94.00	5723.1
RHNF3	GR153288	5512834	8.32KV_1P_Y1/0_AL	Overhead Line	84.6	230.0000				119.9			26.5			11.5			93.96	5807.7
RHNF3	GR153289	5512977	8.32KV_1P_Y1/0_AL	Overhead Line	82.9	230.0000				119.8			26.6			11.5			93.93	5890.6
RHNF3	GR153290	5512978	8.32KV_1P_Y1/0_AL	Overhead Line	30.6	230.0000				119.8			26.6			11.5			93.92	5921.2
RHNF3	GR153291	5509618	8.32KV_1P_Y1/0_AL	Overhead Line	28.3	230.0000				67.9			15.1			6.5			93.92	5949.5
RHNF3	GR153292	5509619	8.32KV_1P_Y1/0_AL	Overhead Line	109.4	230.0000				66.0			14.6			6.4			93.89	6058.9
RHNF3	GR153293	5509620	8.32KV_1P_Y1/0_AL	Overhead Line	68.1	230.0000				66.0			14.6			6.4			93.88	6127.1
RHNF3	GR153294	5509621	8.32KV_1P_Y1/0_AL	Overhead Line	77.2	230.0000				56.6			12.5			5.5			93.86	6204.2
RHNF3	GR153295	5509622	8.32KV_1P_Y1/0_AL	Overhead Line	78.6	230.0000				56.6			12.5			5.5			93.85	6282.8
RHNF3	GR153296	5509624	8.32KV_1P_Y1/0_AL	Overhead Line	37.7	230.0000				56.6			12.5			5.5			93.84	6320.5
RHNF3	GR153297	5509625	8.32KV_1P_Y1/0_AL	Overhead Line	37.1	230.0000				9.4			2.1			0.9			93.84	6357.6
RHNF3	GR153298	5509626	8.32KV_1P_Y1/0_AL	Overhead Line	73.4	230.0000				9.4			2.1			0.9			93.84	6431.0
RHNF3	GR153299	5509627	8.32KV_1P_Y1/0_AL	Overhead Line	67.0	230.0000				9.4			2.1			0.9			93.84	6498.0
RHNF3	GR153300	5509628	8.32KV_1P_Y1/0_AL	Overhead Line	57.2	230.0000				4.7			1.0			0.5			93.84	6555.2
RHNF3	GR153301	5509214	8.32KV_1P_Y1/0_AL	Overhead Line	58.9	230.0000				4.7			1.0			0.5			93.84	6614.1
RHNF3	GR153306	5510697	8.32KV_1P_Y1/0_AL	Overhead Line	5.8	230.0000				47.1			10.5			4.5			93.84	6326.3
RHNF3	GR153333	5511595	8.32KV_1P_Y1/0_AL	Overhead Line	6.0	230.0000				51.9			11.5			5.0			93.92	5927.2
RHNF3	GR153358	16477204	DEFAULT	Overhead Line	17.0	1000.0000		187.2	71.4	34.1	41.6	15.6	7.5	4.2	1.6	0.8	93.59	95.33	94.09	5532.3
RHNF3	GR153359	16365146	DEFAULT	Overhead Line	39.7	1000.0000		187.2	71.4	34.1	41.6	15.6	7.5	4.2	1.6	0.8	93.54	95.33	94.09	5572.0
RHNF3	GR153360	5511225	8.32KV_3P_Y3/0_AL	Overhead Line	53.8	270.0000		187.1	71.4	31.4	41.6	15.6	6.9	15.4	5.8	2.6	93.51	95.33	94.08	5625.8
RHNF3	GR153361	5509631	8.32KV_3P_Y1/0_AL	Overhead Line	3.6	230.0000		23.9	18.9	10.9	5.3	4.1	2.4	2.3	1.8	1.1	93.51	95.33	94.08	5629.4
RHNF3	GR153388	5511226	8.32KV_3P_Y3/0_AL	Overhead Line	47.3	270.0000		163.1	52.5	20.4	36.3	11.5	4.5	13.4	4.3	1.7	93.48	95.33	94.08	5673.0
RHNF3	GR153389	5511227	8.32KV_3P_Y3/0_AL	Overhead Line	63.3	270.0000		157.1	47.9	17.7	35.0	10.5	3.9	13.0	3.9	1.5	93.44	95.34	94.07	5736.3
RHNF3	GR153390	18100976	8.32KV_3P_Y3/0_AL	Overhead Line	9.9	270.0000		157.0	47.9	17.7	35.0	10.5	3.9	13.0	3.9	1.5	93.44	95.34	94.07	5746.2
RHNF3	GR153391	11241232	8.32KV_3P_Y3/0_AL	Overhead Line	5.5	270.0000		157.0	47.9	17.7	35.0	10.5	3.9	13.0	3.9	1.5	93.43	95.34	94.07	5751.6
RHNF3	GR153392	5511228	8.32KV_3P_Y3/0_AL	Overhead Line	38.8	270.0000		157.0	47.9	15.0	35.0	10.5	3.3	13.0	3.9	1.2	93.41	95.35	94.07	5790.4

Feeder Id (Balace)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR153393	18100980	8.32KV_3P_Y3/0_AL	Overhead Line	39.5	270.0000		157.0	47.9	15.0	35.0	10.5	3.3	13.0	3.9	1.2	93.39	95.35	94.06	5830.0
RHNF3	GR153394	5511229	8.32KV_3P_Y556_AL	Overhead Line	63.5	530.0000		156.9	47.9	15.0	35.0	10.5	3.3	6.6	2.0	0.6	93.36	95.36	94.06	5893.4
RHNF3	GR153395	5511230	8.32KV_3P_Y556_AL	Overhead Line	81.1	530.0000		156.9	47.9	15.0	35.0	10.5	3.3	6.6	2.0	0.6	93.33	95.37	94.05	5974.5
RHNF3	GR153396	5511231	8.32KV_3P_Y556_AL	Overhead Line	86.8	530.0000		156.8	38.5	15.0	35.0	8.4	3.3	6.6	1.6	0.6	93.30	95.39	94.05	6061.3
RHNF3	GR153397	5511368	8.32KV_3P_Y556_AL	Overhead Line	43.2	530.0000		156.8	33.8	15.0	35.0	7.4	3.3	6.6	1.4	0.6	93.28	95.39	94.04	6104.5
RHNF3	GR153398	5512165	8.32KV_3P_Y556_AL	Overhead Line	44.5	530.0000		156.8	33.8	15.0	35.0	7.4	3.3	6.6	1.4	0.6	93.27	95.40	94.04	6149.0
RHNF3	GR153399	5512166	8.32KV_3P_Y556_AL	Overhead Line	46.7	530.0000		156.7	33.8	15.0	35.0	7.4	3.3	6.6	1.4	0.6	93.25	95.41	94.03	6195.7
RHNF3	GR153400	5508122	8.32KV_1P_Y1/0_AL	Overhead Line	18.3	230.0000			9.4			2.1			0.9			95.41		6214.0
RHNF3	GR153401	5511632	8.32KV_1P_Y1/0_AL	Overhead Line	45.6	230.0000			0.0			0.0			0.0			95.41		6259.6
RHNF3	GR153402	5511633	8.32KV_1P_Y1/0_AL	Overhead Line	36.6	230.0000			0.0			0.0			0.0			95.41		6250.6
RHNF3	GR153405	5512167	8.32KV_3P_Y556_AL	Overhead Line	36.7	530.0000		156.7	24.4	15.0	35.0	5.3	3.3	6.6	1.0	0.6	93.24	95.42	94.03	6232.3
RHNF3	GR153406	5512168	8.32KV_3P_Y556_AL	Overhead Line	54.3	530.0000		156.7	24.4	15.0	35.0	5.3	3.3	6.6	1.0	0.6	93.22	95.43	94.02	6286.7
RHNF3	GR153407	5512169	8.32KV_3P_Y556_AL	Overhead Line	38.2	530.0000		156.7	24.4	15.0	35.0	5.3	3.3	6.6	1.0	0.6	93.20	95.43	94.02	6324.8
RHNF3	GR153408	11430579	8.32KV_3P_Y556_AL	Overhead Line	45.7	530.0000		156.6	24.4	15.0	35.0	5.3	3.3	6.6	1.0	0.6	93.19	95.44	94.01	6370.5
RHNF3	GR153409	11430589	8.32KV_3P_Y556_AL	Overhead Line	38.8	530.0000		156.6	24.4	15.0	35.0	5.3	3.3	6.6	1.0	0.6	93.17	95.45	94.01	6409.3
RHNF3	GR153410	16464835	DEFAULT	Overhead Line	20.5	1000.0000		156.6	24.4	15.0	35.0	5.3	3.3	3.5	0.5	0.3	93.15	95.45	94.01	6429.7
RHNF3	GR153411	5512170	8.32KV_3P_Y556_AL	Overhead Line	53.6	530.0000		156.6	24.4	15.0	35.0	5.3	3.3	6.6	1.0	0.6	93.13	95.46	94.00	6483.3
RHNF3	GR153412	11357717	8.32KV_3P_Y556_AL	Overhead Line	32.5	530.0000		156.5	24.4	15.0	35.0	5.3	3.3	6.6	1.0	0.6	93.12	95.47	94.00	6515.8
RHNF3	GR153413	11357702	8.32KV_3P_Y556_AL	Overhead Line	52.1	530.0000		156.5	24.4	15.0	35.0	5.3	3.3	6.6	1.0	0.6	93.10	95.48	93.99	6567.9
RHNF3	GR153414	5512172	8.32KV_3P_Y556_AL	Overhead Line	69.5	530.0000		156.5	24.4	15.0	35.0	5.3	3.3	6.6	1.0	0.6	93.08	95.49	93.98	6637.4
RHNF3	GR153415	5511445	8.32KV_3P_Y3/0_AL	Overhead Line	79.5	270.0000		156.4	24.4	6.8	35.0	5.3	1.5	13.0	2.0	0.6	93.03	95.51	93.98	6716.8
RHNF3	GR153416	5511444	8.32KV_3P_Y3/0_AL	Overhead Line	39.5	270.0000		156.4	24.4	6.8	35.0	5.3	1.5	13.0	2.0	0.6	93.01	95.52	93.97	6756.3
RHNF3	GR153417	5511443	8.32KV_3P_Y3/0_AL	Overhead Line	34.9	270.0000		156.3	24.4	6.8	35.0	5.3	1.5	13.0	2.0	0.6	92.99	95.52	93.97	6791.3
RHNF3	GR153418	5511442	8.32KV_3P_Y3/0_AL	Overhead Line	51.5	270.0000		156.3	24.4	6.8	35.0	5.3	1.5	13.0	2.0	0.6	92.96	95.53	93.97	6842.7
RHNF3	GR153419	5511441	8.32KV_3P_Y3/0_AL	Overhead Line	68.5	270.0000		156.2	24.4	6.8	35.0	5.3	1.5	13.0	2.0	0.6	92.92	95.55	93.96	6911.2
RHNF3	GR153420	5509433	8.32KV_3P_Y3/0_AL	Overhead Line	39.4	270.0000		156.2	24.4	2.7	35.0	5.3	0.6	13.0	2.0	0.2	92.89	95.55	93.96	6950.6
RHNF3	GR153421	5511452	8.32KV_3P_Y3/0_AL	Overhead Line	81.5	270.0000		156.1	24.4	2.7	35.0	5.3	0.6	13.0	2.0	0.2	92.85	95.57	93.95	7032.0
RHNF3	GR153422	5512927	8.32KV_3P_Y3/0_AL	Overhead Line	30.8	270.0000		156.1	24.4	2.7	35.0	5.3	0.6	13.0	2.0	0.2	92.83	95.58	93.95	7062.8
RHNF3	GR153423	18100964	8.32KV_3P_Y3/0_AL	Overhead Line	30.8	270.0000		156.0	24.4	2.7	35.0	5.3	0.6	13.0	2.0	0.2	92.81	95.58	93.95	7093.7
RHNF3	GR153424	5510006	8.32KV_3P_Y3/0_AL	Overhead Line	27.7	270.0000		156.0	24.4	2.7	35.0	5.3	0.6	13.0	2.0	0.2	92.79	95.59	93.94	7121.4
RHNF3	GR153425	5512929	8.32KV_3P_Y3/0_AL	Overhead Line	15.4	270.0000		156.0	24.4	2.7	35.0	5.3	0.6	13.0	2.0	0.2	92.78	95.59	93.94	7136.7
RHNF3	GR153426	5511155	8.32KV_3P_Y1/0_AL	Overhead Line	4.6	230.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.78	95.59	93.94	7141.3
RHNF3	GR153427	5511156	8.32KV_3P_Y556_AL	Overhead Line	28.7	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.78	95.59	93.94	7170.0
RHNF3	GR153428	5511157	8.32KV_3P_Y556_AL	Overhead Line	58.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.78	95.59	93.94	7228.2
RHNF3	GR153429	5511158	8.32KV_3P_Y556_AL	Overhead Line	60.2	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.78	95.59	93.94	7288.4
RHNF3	GR153430	5511159	8.32KV_3P_Y556_AL	Overhead Line	40.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.78	95.59	93.94	7328.4
RHNF3	GR153431	5511160	8.32KV_3P_Y556_AL	Overhead Line	40.4	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.78	95.59	93.94	7368.8
RHNF3	GR153432	5513219	8.32KV_3P_Y556_AL	Overhead Line	35.8	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.78	95.59	93.94	7177.1
RHNF3	GR153433	5512931	8.32KV_3P_Y3/0_AL	Overhead Line	42.3	270.0000		156.0	24.5	2.7	35.0	5.3	0.6	13.0	2.0	0.2	92.76	95.60	93.94	7179.0
RHNF3	GR153434	18098488	8.32KV_3P_Y3/0_AL	Overhead Line	3.6	270.0000		155.9	24.5	2.7	35.0	5.3	0.6	13.0	2.0	0.2	92.76	95.60	93.94	7182.7
RHNF3	GR153435	5511437	8.32KV_3P_Y3/0_AL	Overhead Line	81.5	270.0000		155.9	24.5	2.7	35.0	5.3	0.6	13.0	2.0	0.2	92.71	95.61	93.93	7264.1
RHNF3	GR153436	5509116	8.32KV_3P_Y3/0_AL	Overhead Line	58.9	270.0000		155.9	19.8	2.7	35.0	4.3	0.6	13.0	1.6	0.2	92.67	95.63	93.93	7323.0
RHNF3	GR153437	5508307	8.32KV_3P_Y3/0_AL	Overhead Line	17.5	270.0000		155.8	19.8	2.7	35.0	4.3	0.6	13.0	1.6	0.2	92.66	95.63	93.93	7340.6
RHNF3	GR153438	18100581	8.32KV_3P_Y3/0_AL	Overhead Line	3.8	270.0000		155.8	19.8	2.7	35.0	4.3	0.6	13.0	1.6	0.2	92.66	95.63	93.93	7344.4
RHNF3	GR153439	5508308	8.32KV_3P_Y3/0_AL	Overhead Line	60.4	270.0000		155.8	15.1	2.7	35.0	3.3	0.6	13.0	1.2	0.2	92.63	95.64	93.92	7404.8
RHNF3	GR153440	5509919	8.32KV_3P_Y3/0_AL	Overhead Line	54.2	270.0000		155.7	12.2	2.7	35.0	2.7	0.6	13.0	1.0	0.2	92.60	95.66	93.92	7459.0
RHNF3	GR153441	5509920	8.32KV_3P_Y3/0_AL	Overhead Line	60.8	270.0000		155.7	12.2	0.0	35.0	2.7	0.0	13.0	1.0	0.0	92.56	95.67	93.91	7519.8
RHNF3	GR153442	5509516	8.32KV_1P_N1/0_AL	Overhead Line	4.4	230.0000		41.9			9.4			4.1			92.56			7524.1
RHNF3	GR153444	5509576	8.32KV_1P_Y1/0_AL	Overhead Line	21.1	230.0000		41.9			9.4			4.1			92.55			7591.9
RHNF3	GR153445	5508001	8.32KV_1P_Y1/0_AL	Overhead Line	48.2	230.0000		12.0			2.7			1.2			92.55			7640.1
RHNF3	GR153446	5508000	8.32KV_1P_Y1/0_AL	Overhead Line	48.4	230.0000		12.0			2.7			1.2			92.55			7688.5
RHNF3	GR153447	5507999	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000		12.0			2.7			1.2			92.54			7731.6
RHNF3	GR153450	5508002	8.32KV_1P_Y1/0_AL	Overhead Line	40.4	230.0000		29.9			6.7			2.9			92.54			7632.4
RHNF3	GR153451	5508003	8.32KV_1P_Y1/0_AL	Overhead Line	57.8	230.0000		17.9			4.0			1.8			92.54			7690.1
RHNF3	GR153452	5508004	8.32KV_1P_Y1/0_AL	Overhead Line	32.7	230.0000		17.9			4.0			1.8			92.54			7722.9
RHNF3	GR153453	5508005	8.32KV_1P_Y1/0_AL	Overhead Line	36.3	230.0000		17.9			4.0			1.8			92.54			7759.2
RHNF3	GR153454	5508006	8.32KV_1P_Y1/0_AL	Overhead Line	30.2	230.0000		0.0			0.0			0.0			92.54			7789.4
RHNF3	GR153459	5509921	8.32KV_3P_Y3/0_AL	Overhead Line	71.2	270.0000		113.7	9.4	0.0	25.6	2.0	0.0	9.5	0.8	0.0	92.53	95.68	93.91	7591.0
RHNF3	GR153460	5508306	8.32KV_1P_Y1/0_AL	Overhead Line	21.7	230.0000		95.8			21.5			9.4			92.52			7612.7
RHNF3	GR153461	5508305	8.32KV_1P_Y1/0_AL	Overhead Line	27.7	230.0000		95.7			21.5			9.4			92.51			7640.4
RHNF3	GR153462	5508304	8.32KV_1P_Y1/0_AL	Overhead Line	34.8	230.0000		95.7			21.5			9.4			92.50			7675.2
RHNF3	GR153463	5508303	8.32KV_1P_Y1/0_AL	Overhead Line	41.6	230.0000		89.7			20.2			8.8			92.49			7716.8
RHNF3	GR153464	5508302	8.32KV_1P_Y1/0_AL	Overhead Line	17.0	230.0000		83.8			18.9			8.2			92.49			7733.8
RHNF3	GR153465	5507878	8.32KV_1P_Y1/0_AL	Overhead Line	40.0	230.0000		35.9			8.1			3.5			92.48			7773.8
RHNF3	GR153466	5512866	8.32KV_1P_Y1/0_AL	Overhead Line	37.8	230.0000		35.9			8.1			3.5			92.48			7811.6
RHNF3	GR153467	5507877	8.32KV_1P_Y1/0_AL	Overhead Line	35.1	230.0000		23.9			5.4			2.3			92.47			7846.7
RHNF3	GR153468	5507876	8.32KV_1P_Y1/0_AL	Overhead Line	26.3	230.0000		23.9			5.4			2.3			92.47			7873.0
RHNF3	GR153469	5507875	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000		23.9			5.4			2.3			92.47			7901.5
RHNF3	GR153470	5507874	8.32KV_1P_Y1/0_AL	Overhead Line	27.8	230.0000		23.9			5.4			2.3			92.47			7929.3
RHNF3	GR153471	5507873	8.32KV_1P_Y1/0_AL	Overhead Line	27.6	230.0000		23.9			5.4			2.3			92.46			7956.9
RHNF3	GR153472	5507872	8.32KV_1P_Y1/0_AL	Overhead Line	29.5	230.0000		17.9			4.0			1.8			92.46			7986.4
RHNF3	GR153473	5507871	8.32KV_1P_Y1/0_AL	Overhead Line	30.0	230.0000		17.9			4.0			1.8			92.46			8016.4
RHNF3	GR153474	5507870	8.32KV_1P_Y1/0_AL	Overhead Line	29.8	230.0000		17.9			4.0			1.8			92.46			8046.2
RHNF3	GR153475	5559029	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000		17.9			4.0			1.8			92.46			8074.7
RHNF3	GR153476	5507882	8.32KV_1P_Y1/0_AL	Overhead Line	32.3	230.0000		0.0			0.0			0.0			92.46			8107.0

Feeder Id (Balace)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR153477	5507883	8.32KV_1P_Y1/0_AL	Overhead Line	30.4	230.0000		0.0			0.0			0.0			92.46			8137.4
RHNF3	GR153484	5508291	8.32KV_1P_Y1/0_AL	Overhead Line	25.2	230.0000		47.9			10.8			4.7			92.48			7759.0
RHNF3	GR153485	14631701	8.32KV_1P_Y1/0_AL	Overhead Line	29.9	230.0000		35.9			8.1			3.5			92.48			7788.9
RHNF3	GR153486	5508292	8.32KV_1P_Y1/0_AL	Overhead Line	39.0	230.0000		35.9			8.1			3.5			92.47			7827.9
RHNF3	GR153487	5507881	8.32KV_1P_Y1/0_AL	Overhead Line	37.9	230.0000		12.0			2.7			1.2			92.47			7865.8
RHNF3	GR153488	5511706	8.32KV_1P_Y1/0_AL	Overhead Line	50.2	230.0000		12.0			2.7			1.2			92.47			7915.9
RHNF3	GR153489	5507880	8.32KV_1P_Y1/0_AL	Overhead Line	43.9	230.0000		0.0			0.0			0.0			92.47			7959.8
RHNF3	GR153490	5507879	8.32KV_1P_Y1/0_AL	Overhead Line	55.5	230.0000		0.0			0.0			0.0			92.47			8015.3
RHNF3	GR153493	5508293	8.32KV_1P_Y1/0_AL	Overhead Line	15.4	230.0000		23.9			5.4			2.3			92.47			7843.3
RHNF3	GR153494	5508294	8.32KV_1P_Y1/0_AL	Overhead Line	17.9	230.0000		23.9			5.4			2.3			92.47			7861.1
RHNF3	GR153495	5508295	8.32KV_1P_Y1/0_AL	Overhead Line	48.1	230.0000		12.0			2.7			1.2			92.47			7909.2
RHNF3	GR153496	5508296	8.32KV_1P_Y1/0_AL	Overhead Line	31.6	230.0000		12.0			2.7			1.2			92.47			7940.8
RHNF3	GR153497	5508297	8.32KV_1P_Y1/0_AL	Overhead Line	29.4	230.0000		12.0			2.7			1.2			92.47			7970.2
RHNF3	GR153498	5508298	8.32KV_1P_Y1/0_AL	Overhead Line	25.4	230.0000		12.0			2.7			1.2			92.47			7995.6
RHNF3	GR153499	5508299	8.32KV_1P_Y1/0_AL	Overhead Line	27.3	230.0000		12.0			2.7			1.2			92.46			8022.9
RHNF3	GR153500	5508300	8.32KV_1P_Y1/0_AL	Overhead Line	23.8	230.0000		12.0			2.7			1.2			92.46			8046.6
RHNF3	GR153501	5507729	8.32KV_1P_Y1/0_AL	Overhead Line	34.6	230.0000		0.0			0.0			0.0			92.46			8081.3
RHNF3	GR153502	5508301	8.32KV_1P_Y1/0_AL	Overhead Line	30.9	230.0000		0.0			0.0			0.0			92.46			8077.6
RHNF3	GR153503	5512870	8.32KV_1P_Y1/0_AL	Overhead Line	37.3	230.0000		0.0			0.0			0.0			92.46			8114.9
RHNF3	GR153510	5512814	8.32KV_1P_Y1/0_AL	Overhead Line	20.0	230.0000		6.0			1.3			0.6			92.49			7736.8
RHNF3	GR153511	5512812	8.32KV_1P_Y1/0_AL	Overhead Line	29.6	230.0000		6.0			1.3			0.6			92.49			7766.4
RHNF3	GR153512	5559759	8.32KV_1P_Y1/0_AL	Overhead Line	31.8	230.0000		6.0			1.3			0.6			92.49			7798.2
RHNF3	GR153513	5559391	8.32KV_1P_Y1/0_AL	Overhead Line	35.2	230.0000		6.0			1.3			0.6			92.49			7833.4
RHNF3	GR153518	5509922	8.32KV_3P_Y3/0_AL	Overhead Line	25.4	270.0000		17.9	9.4	0.0	4.0	2.0	0.0	1.5	0.8	0.0	92.53	95.68	93.91	7616.4
RHNF3	GR153519	18100996	8.32KV_3P_Y3/0_AL	Overhead Line	5.0	270.0000		17.9	9.4	0.0	4.0	2.0	0.0	1.5	0.8	0.0	92.53	95.68	93.91	7621.4
RHNF3	GR153520	5509923	8.32KV_3P_Y3/0_AL	Overhead Line	30.5	270.0000		17.9	9.4	0.0	4.0	2.0	0.0	1.5	0.8	0.0	92.52	95.68	93.91	7651.9
RHNF3	GR153521	5509924	8.32KV_3P_Y3/0_AL	Overhead Line	28.9	270.0000		0.0	9.4	0.0	0.0	2.0	0.0	0.0	0.8	0.0	92.52	95.68	93.91	7680.8
RHNF3	GR153522	18101000	8.32KV_3P_Y3/0_AL	Overhead Line	2.6	270.0000		0.0	9.4	0.0	0.0	2.0	0.0	0.0	0.8	0.0	92.52	95.68	93.91	7683.4
RHNF3	GR153523	5509925	8.32KV_3P_Y3/0_AL	Overhead Line	4.0	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.52	95.68	93.91	7687.4
RHNF3	GR153524	18100998	8.32KV_3P_Y3/0_AL	Overhead Line	28.7	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.52	95.68	93.91	7716.1
RHNF3	GR153525	5510648	8.32KV_3P_Y3/0_AL	Overhead Line	41.2	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.52	95.68	93.91	7757.3
RHNF3	GR153528	5511439	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000		17.9			4.0			1.8			92.52			7654.6
RHNF3	GR153543	5511451	8.32KV_1P_Y1/0_AL	Overhead Line	17.2	230.0000				4.1			0.9			0.4			93.96	6928.3
RHNF3	GR153562	5511790	8.32KV_1P_Y1/0_AL	Overhead Line	4.4	230.0000				2.7			0.6			0.3			94.37	5131.1
RHNF3	GR153563	11241245	8.32KV_1P_Y1/0_AL	Overhead Line	59.4	230.0000				2.7			0.6			0.3			94.37	5190.5
RHNF3	GR153568	5511792	8.32KV_1P_Y1/0_AL	Overhead Line	4.2	230.0000		2.4			0.5			0.2			94.06			4910.5
RHNF3	GR153569	11241283	8.32KV_1P_Y1/0_AL	Overhead Line	14.9	230.0000		2.4			0.5			0.2			94.06			4925.4
RHNF3	GR153570	5511793	8.32KV_1P_Y1/0_AL	Overhead Line	71.5	230.0000		2.4			0.5			0.2			94.05			4996.9
RHNF3	GR153571	5511794	8.32KV_1P_Y1/0_AL	Overhead Line	58.6	230.0000		2.4			0.5			0.2			94.05			5055.5
RHNF3	GR153576	5511211	8.32KV_1P_Y1/0_AL	Overhead Line	20.0	230.0000			75.4			16.5			7.2			95.43		4678.0
RHNF3	GR153577	5511212	8.32KV_1P_Y1/0_AL	Overhead Line	17.2	230.0000			75.4			16.5			7.2			95.43		4695.3
RHNF3	GR153608	5512442	8.32KV_1P_Y1/0_AL	Overhead Line	17.6	230.0000				147.8			32.0			13.9			96.27	2675.4
RHNF3	GR153609	5558652	8.32KV_1P_Y1/0_AL	Overhead Line	38.4	230.0000				147.8			32.0			13.9			96.25	2713.8
RHNF3	GR153610	11340740	8.32KV_1P_Y1/0_AL	Overhead Line	9.6	230.0000				0.0			0.0			0.0			96.25	2723.5
RHNF3	GR153611	18081743	8.32KV_1P_Y1/0_AL	Overhead Line	3.2	230.0000				147.8			32.0			13.9			96.25	2717.0
RHNF3	GR153612	11340738	8.32KV_1P_Y1/0_AL	Overhead Line	6.9	230.0000				147.8			32.0			13.9			96.24	2724.0
RHNF3	GR153613	5558653	8.32KV_1P_Y1/0_AL	Overhead Line	4.0	230.0000				147.8			32.0			13.9			96.24	2728.0
RHNF3	GR153614	11340736	8.32KV_1P_Y1/0_AL	Overhead Line	9.8	230.0000				0.0			0.0			0.0			96.24	2737.8
RHNF3	GR153615	11340737	8.32KV_1P_Y1/0_AL	Overhead Line	76.5	230.0000				147.8			32.0			13.9			96.20	2804.4
RHNF3	GR153616	5558655	8.32KV_1P_Y1/0_AL	Overhead Line	66.1	230.0000				147.7			32.0			13.9			96.16	2870.5
RHNF3	GR153617	5558654	8.32KV_1P_Y1/0_AL	Overhead Line	69.2	230.0000				147.7			32.0			13.9			96.13	2939.7
RHNF3	GR153618	5558656	8.32KV_1P_Y1/0_AL	Overhead Line	67.8	230.0000				147.6			32.0			13.9			96.09	3007.6
RHNF3	GR153619	5558658	8.32KV_1P_Y1/0_AL	Overhead Line	68.2	230.0000				147.6			32.0			13.9			96.06	3075.7
RHNF3	GR153620	5558659	8.32KV_1P_Y1/0_AL	Overhead Line	69.2	230.0000				147.5			32.0			13.9			96.02	3144.9
RHNF3	GR153621	5559053	8.32KV_1P_Y1/0_AL	Overhead Line	66.6	230.0000				147.5			32.0			13.9			95.99	3211.6
RHNF3	GR153622	5559052	8.32KV_1P_Y1/0_AL	Overhead Line	66.4	230.0000				147.4			32.0			13.9			95.95	3277.9
RHNF3	GR153623	5511269	8.32KV_1P_Y1/0_AL	Overhead Line	78.8	230.0000				147.4			32.0			13.9			95.91	3356.8
RHNF3	GR153624	5559054	8.32KV_1P_Y1/0_AL	Overhead Line	80.2	230.0000				147.3			32.0			13.9			95.87	3437.0
RHNF3	GR153625	5559055	8.32KV_1P_Y1/0_AL	Overhead Line	79.3	230.0000				147.2			32.0			13.9			95.83	3516.2
RHNF3	GR153626	5559056	8.32KV_1P_Y1/0_AL	Overhead Line	80.2	230.0000				147.2			32.0			13.9			95.78	3596.4
RHNF3	GR153627	5559057	8.32KV_1P_Y1/0_AL	Overhead Line	76.9	230.0000				147.1			32.0			13.9			95.74	3673.3
RHNF3	GR153628	5559058	8.32KV_1P_Y1/0_AL	Overhead Line	76.4	230.0000				147.1			32.0			13.9			95.70	3749.7
RHNF3	GR153629	5559059	8.32KV_1P_Y1/0_AL	Overhead Line	84.5	230.0000				147.0			32.0			13.9			95.66	3834.1
RHNF3	GR153630	5559060	8.32KV_1P_Y1/0_AL	Overhead Line	81.4	230.0000				146.9			32.0			13.9			95.62	3915.5
RHNF3	GR153631	5559061	8.32KV_1P_Y1/0_AL	Overhead Line	85.4	230.0000				146.9			32.0			13.9			95.57	4000.9
RHNF3	GR153632	5559062	8.32KV_1P_Y1/0_AL	Overhead Line	85.0	230.0000				146.8			32.0			13.9			95.53	4085.9
RHNF3	GR153633	5513581	8.32KV_1P_Y1/0_AL	Overhead Line	79.9	230.0000				145.1			31.6			13.8			95.49	4165.9
RHNF3	GR153634	5559063	8.32KV_1P_Y1/0_AL	Overhead Line	84.9	230.0000				145.1			31.6			13.8			95.44	4250.8
RHNF3	GR153635	5558876	8.32KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000				2.7			0.6			0.3			95.44	4253.5
RHNF3	GR153636	11281736	8.32KV_1P_Y1/0_AL	Overhead Line	63.3	230.0000				2.7			0.6			0.3			95.44	4316.8
RHNF3	GR153637	5558877	8.32KV_1P_Y1/0_AL	Overhead Line	66.9	230.0000				2.7			0.6			0.3			95.44	4383.7
RHNF3	GR153640	5559069	8.32KV_1P_Y1/0_AL	Overhead Line	78.1	230.0000				142.3			31.0			13.5			95.40	4328.9
RHNF3	GR153641	5511270	8.32KV_1P_Y1/0_AL	Overhead Line	72.2	230.0000				142.2			31.0			13.5			95.37	4401.0
RHNF3	GR153642	5559070	8.32KV_1P_Y1/0_AL	Overhead Line	85.4	230.0000				140.6			30.7			13.3			95.32	4486.4
RHNF3	GR153643	5559071	8.32KV_1P_Y1/0_AL	Overhead Line	86.7	230.0000				140.5			30.7			13.3			95.28	4573.0

Feeder Id (Balace)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR153644	5559072	8.32KV_1P_Y1/0_AL	Overhead Line	80.5	230.0000				140.5			30.7			13.3			95.24	4653.6
RHNF3	GR153645	5559073	8.32KV_1P_Y1/0_AL	Overhead Line	62.1	230.0000				140.4			30.7			13.3			95.21	4715.7
RHNF3	GR153646	5559074	8.32KV_1P_Y1/0_AL	Overhead Line	62.2	230.0000				140.4			30.7			13.3			95.18	4777.8
RHNF3	GR153647	5559075	8.32KV_1P_Y1/0_AL	Overhead Line	60.1	230.0000				140.3			30.7			13.3			95.15	4837.9
RHNF3	GR153648	5559076	8.32KV_1P_Y1/0_AL	Overhead Line	60.4	230.0000				140.3			30.7			13.3			95.12	4898.3
RHNF3	GR153649	5559077	8.32KV_1P_Y1/0_AL	Overhead Line	56.4	230.0000				140.2			30.7			13.3			95.09	4954.7
RHNF3	GR153650	5511378	8.32KV_1P_Y1/0_AL	Overhead Line	3.3	230.0000				2.7			0.6			0.3			95.09	4958.0
RHNF3	GR153651	11283973	8.32KV_1P_Y1/0_AL	Overhead Line	67.9	230.0000				2.7			0.6			0.3			95.09	5025.9
RHNF3	GR153654	5559078	8.32KV_1P_Y1/0_AL	Overhead Line	64.5	230.0000				137.5			30.1			13.1			95.06	5019.2
RHNF3	GR153655	5559087	8.32KV_1P_Y1/0_AL	Overhead Line	57.9	230.0000				137.5			30.1			13.1			95.03	5077.1
RHNF3	GR153656	5512451	8.32KV_1P_Y1/0_AL	Overhead Line	59.3	230.0000				137.4			30.1			13.1			95.00	5136.3
RHNF3	GR153657	18164019	DEFAULT	Overhead Line	5.0	1000.0000				10.9			2.4			0.2			95.00	5141.3
RHNF3	GR153658	19033325	DEFAULT	Overhead Line	17.2	1000.0000				10.9			2.4			0.2			95.00	5158.5
RHNF3	GR153663	5559088	8.32KV_1P_Y1/0_AL	Overhead Line	62.7	230.0000				126.6			27.7			12.1			94.97	5199.0
RHNF3	GR153664	5559090	8.32KV_1P_Y1/0_AL	Overhead Line	73.7	230.0000				121.2			26.6			11.5			94.94	5272.7
RHNF3	GR153665	5559091	8.32KV_1P_Y1/0_AL	Overhead Line	64.6	230.0000				120.1			26.3			11.4			94.91	5337.3
RHNF3	GR153666	5559243	8.32KV_1P_Y1/0_AL	Overhead Line	78.1	230.0000				120.0			26.3			11.4			94.87	5415.4
RHNF3	GR153667	5511271	8.32KV_1P_Y1/0_AL	Overhead Line	75.6	230.0000				117.3			25.7			11.2			94.84	5491.0
RHNF3	GR153668	5559244	8.32KV_1P_Y1/0_AL	Overhead Line	75.8	230.0000				117.3			25.7			11.2			94.81	5566.8
RHNF3	GR153669	5511280	8.32KV_1P_Y1/0_AL	Overhead Line	19.4	230.0000				2.7			0.6			0.3			94.81	5586.2
RHNF3	GR153670	5560060	8.32KV_1P_Y1/0_AL	Overhead Line	2.1	230.0000				2.7			0.6			0.3			94.81	5588.3
RHNF3	GR153671	11340762	8.32KV_1P_Y1/0_AL	Overhead Line	37.9	230.0000				2.7			0.6			0.3			94.81	5626.2
RHNF3	GR153672	5560061	8.32KV_1P_Y1/0_AL	Overhead Line	38.3	230.0000				2.7			0.6			0.3			94.81	5664.5
RHNF3	GR153675	5559245	8.32KV_1P_Y1/0_AL	Overhead Line	79.8	230.0000				114.5			25.1			10.9			94.78	5646.5
RHNF3	GR153676	5559247	8.32KV_1P_Y1/0_AL	Overhead Line	78.9	230.0000				114.5			25.2			10.9			94.74	5725.4
RHNF3	GR153677	5559249	8.32KV_1P_Y1/0_AL	Overhead Line	57.7	230.0000				114.5			25.2			10.9			94.72	5783.2
RHNF3	GR153678	5559251	8.32KV_1P_Y1/0_AL	Overhead Line	70.9	230.0000				114.4			25.2			10.9			94.69	5854.0
RHNF3	GR153679	5559252	8.32KV_1P_Y1/0_AL	Overhead Line	87.8	230.0000				114.4			25.2			10.9			94.65	5941.8
RHNF3	GR153680	5559287	8.32KV_1P_Y1/0_AL	Overhead Line	83.6	230.0000				113.8			25.0			10.9			94.62	6025.4
RHNF3	GR153681	5512453	8.32KV_1P_Y1/0_AL	Overhead Line	80.1	230.0000				111.1			24.4			10.6			94.58	6105.5
RHNF3	GR153682	5559289	8.32KV_1P_Y1/0_AL	Overhead Line	78.9	230.0000				111.1			24.4			10.6			94.55	6184.3
RHNF3	GR153691	5560059	8.32KV_1P_Y1/0_AL	Overhead Line	3.7	230.0000				5.5			1.2			0.5			94.97	5202.7
RHNF3	GR153692	11284030	8.32KV_1P_Y1/0_AL	Overhead Line	49.9	230.0000				5.5			1.2			0.5			94.97	5252.5
RHNF3	GR153695	5561104	8.32KV_1P_Y1/0_AL	Overhead Line	49.5	230.0000				1.6			0.4			0.2			95.37	4450.5
RHNF3	GR153696	11280180	8.32KV_1P_Y1/0_AL	Overhead Line	24.0	230.0000				1.6			0.4			0.2			95.37	4474.5
RHNF3	GR153697	5511379	8.32KV_1P_Y1/0_AL	Overhead Line	76.3	230.0000				1.6			0.4			0.2			95.37	4550.8
RHNF3	GR153698	11280320	8.32KV_1P_Y1/0_AL	Overhead Line	54.9	230.0000				1.6			0.4			0.2			95.37	4605.7
RHNF3	GR153699	5511381	8.32KV_1P_Y1/0_AL	Overhead Line	69.5	230.0000				1.6			0.4			0.2			95.36	4675.2
RHNF3	GR153700	5511382	8.32KV_1P_Y1/0_AL	Overhead Line	60.4	230.0000				1.6			0.4			0.2			95.36	4735.6
RHNF3	GR153701	5511383	8.32KV_1P_Y1/0_AL	Overhead Line	119.2	230.0000				1.6			0.4			0.2			95.36	4854.8
RHNF3	GR153706	5558663	8.32KV_1P_Y1/0_AL	Overhead Line	75.4	230.0000			4.7			1.0			0.4			97.04		2733.2
RHNF3	GR153707	5558664	8.32KV_1P_Y1/0_AL	Overhead Line	64.7	230.0000			4.7			1.0			0.4			97.04		2797.8
RHNF3	GR153714	5561036	8.32KV_1P_Y1/0_AL	Overhead Line	2.4	230.0000			4.7			1.0			0.4			97.98		1797.5
RHNF3	GR153715	11251013	8.32KV_1P_Y1/0_AL	Overhead Line	18.4	230.0000			4.7			1.0			0.4			97.98		1815.9
RHNF3	GR153716	5558864	8.32KV_1P_Y1/0_AL	Overhead Line	41.8	230.0000			4.7			1.0			0.4			97.98		1857.6
RHNF3	GR153717	5559048	8.32KV_1P_Y1/0_AL	Overhead Line	47.9	230.0000			4.7			1.0			0.4			97.98		1905.5
RHNF3	GR153724	5558334	8.32KV_1P_Y1/0_AL	Overhead Line	22.5	230.0000			1.9			0.4			0.2			98.73		1147.0
RHNF3	GR153725	5558365	8.32KV_1P_Y1/0_AL	Overhead Line	42.6	230.0000			1.9			0.4			0.2			98.73		1189.6
RHNF3	GR153730	5558332	8.32KV_1P_Y1/0_AL	Overhead Line	4.1	230.0000		3.6			0.8			0.3			99.08			746.9
RHNF3	GR153731	11296269	8.32KV_1P_Y1/0_AL	Overhead Line	16.5	230.0000		3.6			0.8			0.3			99.08			763.4
RHNF3	GR153732	5558333	8.32KV_1P_Y1/0_AL	Overhead Line	68.1	230.0000		3.6			0.8			0.3			99.08			831.5
RHNF3	GR153735	5557942	8.32KV_3P_Y3/0_AL	Overhead Line	3.0	270.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.96	99.96	99.96	63.2
RHNF3	GR152612	X35771-5512895	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			97.75		1637.9
RHNF3	GR152634	X12058-5524510	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			95.79			2813.2
RHNF3	GR152645	X33317-1685200	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		2.8			0.6			18.7			95.85		3367.2
RHNF3	GR152649	X12060-1685201	8.32KV_UNKNOWN_75_3P	Two-Winding Transformer	0.0		75.00	5.9	4.7	2.7	1.3	1.0	0.6	7.9	6.2	3.6	95.57	96.28	95.62	3390.8
RHNF3	GR152656	X33316-1653244	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			95.22	3551.5
RHNF3	GR152661	X33318-1685202	8.32KV_347V_225_3P	Two-Winding Transformer	0.0		225.00	17.8	14.1	8.2	3.9	3.0	1.8	7.9	6.2	3.6	95.40	96.16	95.51	3562.6
RHNF3	GR152677	X32193-5524669	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			95.16		4187.2
RHNF3	GR152687	TP9499-1691700	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.1			18.7			95.10		4294.2
RHNF3	GR152692	TP12583-1653269	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.1			18.7			95.08		4391.0
RHNF3	GR152697	TP12582-1680846	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.1			18.7			95.06		4532.2
RHNF3	GR152702	TP12581-5510989	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.1			18.7			95.06		4650.4
RHNF3	GR152716	X11891-5513303	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			95.05		5103.8
RHNF3	GR152732	X35915-5524498	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			95.03		5823.9
RHNF3	GR152735	X11892-5510780	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			95.03		5421.1
RHNF3	GR152737	X11903-5510587	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			95.04		5317.5
RHNF3	GR152739	X11910-5524868	8.32KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00		0.9			0.2			18.7			95.07		4760.0
RHNF3	GR152741	X11912-5524847	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			95.09		4577.8
RHNF3	GR152743	X11913-5524494	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			95.09		4502.8
RHNF3	GR152753	X26454-11276270	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.6			23.7			94.01			4190.1
RHNF3	GR152762	TP14362-18986810	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.6			23.7			93.89			4673.7
RHNF3	GR152771	X11982-5524857	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.6			23.7			93.77			4889.4
RHNF3	GR152780	X33310-5512705	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.4			0.5			23.7			93.72			5233.3
RHNF3	GR152782	X33309-5510781	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.4			0.5			23.7			93.72			5149.7

Feeder Id (Balace)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR152786	X11980-5510782	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.4			0.5			23.7			93.71			5156.1
RHNF3	GR152793	X33308-5524678	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.31	5350.4
RHNF3	GR152804	X26375-5510783	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			93.60			5748.8
RHNF3	GR152806	X26574-14707934	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			93.60			5678.1
RHNF3	GR152818	X33303-5510784	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.4			0.5			23.7			93.59			6263.1
RHNF3	GR152839	UNKNOWN-17988504	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.88	6741.1
RHNF3	GR152844	X33302-5524505	8.32KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	61.2	61.2	61.2	13.5	13.4	13.5	59.6	59.6	59.6	91.71	92.85	91.75	6831.5
RHNF3	GR152846	X33321-5524538	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.94	6308.0
RHNF3	GR152848	UNKNOWN-15497805	8.32KV_347V/600V_150_3P	Two-Winding Transformer	0.0		150.00	12.0	9.4	5.5	2.6	2.1	1.2	23.7	18.7	10.9	93.43	94.74	93.91	6269.8
RHNF3	GR152860	X33304-5524183	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.91	6654.4
RHNF3	GR152871	X35795-1674397	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.87	7192.6
RHNF3	GR152880	X33307-5525034	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			8.2			1.8			10.9			93.86	7413.9
RHNF3	GR152882	X60881-18108738	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.86	7178.2
RHNF3	GR152904	X11534-5524473	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.81	8538.4
RHNF3	GR152906	X11532-5524198	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			93.82	8374.6
RHNF3	GR152908	X11531-18140639	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.82	8284.2
RHNF3	GR152926	X33494-5524469	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.75	9089.9
RHNF3	GR152934	X33489-5512906	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			93.74	9071.0
RHNF3	GR152939	X33490-5512295	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			93.74	9128.9
RHNF3	GR152950	X33488-1676064	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.72	9642.7
RHNF3	GR152965	X11567-5510804	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.71	10023.8
RHNF3	GR152967	X11561-5524490	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.72	9648.1
RHNF3	GR152969	X11560-5512317	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.72	9573.6
RHNF3	GR152971	X11551-5512512	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.74	8984.6
RHNF3	GR152973	X11545-1686685	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			93.77	8488.7
RHNF3	GR152979	X33495-5513506	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.78	8579.7
RHNF3	GR152981	X11542-5511934	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.79	8288.6
RHNF3	GR152983	X11541-5524867	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.80	8207.2
RHNF3	GR152985	X11539-5513499	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.82	8057.5
RHNF3	GR153017	X33480-1676058	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.27	9919.2
RHNF3	GR153019	X50900-5513096	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.24	9721.9
RHNF3	GR153021	X12110-1693001	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.21	9651.4
RHNF3	GR153026	X33499-5526148	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.19	9652.7
RHNF3	GR153028	X12112-5510609	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.16	9519.9
RHNF3	GR153068	X42262-19057636	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.87	12019.1
RHNF3	GR153070	X42493-12975767	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.87	11915.3
RHNF3	GR153073	X33328-5524507	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.87	11908.0
RHNF3	GR153083	X42436-11590498	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			93.87	12079.9
RHNF3	GR153085	X11466-5513292	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.90	11088.5
RHNF3	GR153087	X11464-5526319	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.91	10964.9
RHNF3	GR153089	X11462-5513116	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			93.92	10845.8
RHNF3	GR153100	X33330-5513276	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00			1.6			0.4			10.9			93.90	11272.3
RHNF3	GR153108	X11491-5513491	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.90	11642.6
RHNF3	GR153110	X11490-5524364	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			93.90	11568.1
RHNF3	GR153112	X11488-1693793	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.90	11401.2
RHNF3	GR153114	X11486-5513467	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.90	11248.2
RHNF3	GR153116	X11482-5513466	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			93.91	11050.3
RHNF3	GR153118	X11479-5510772	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.91	10915.1
RHNF3	GR153120	X11499-5513493	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.00	10089.4
RHNF3	GR153122	X11504-5513115	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.06	9633.9
RHNF3	GR153126	X12115-1676061	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.09	9465.8
RHNF3	GR153131	X34796-5525576	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.04	9170.6
RHNF3	GR153133	X11513-1653497	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.02	9003.2
RHNF3	GR153136	X11519-10001542	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			93.94	8648.8
RHNF3	GR153138	X11522-1693172	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			93.89	8374.5
RHNF3	GR153142	X33478-5513299	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.88	8373.0
RHNF3	GR153145	X11524-1676027	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.87	8233.7
RHNF3	GR153147	X11526-10001623	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.84	8095.1
RHNF3	GR153150	X11528-5513480	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.84	8064.1
RHNF3	GR153152	X11538-5524896	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.83	7990.8
RHNF3	GR153154	X11974-1676060	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.83	7836.2
RHNF3	GR153156	X11973-5524486	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			93.84	7746.2
RHNF3	GR153158	X11972-5524860	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			93.84	7658.7
RHNF3	GR153160	X11969-5524859	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.85	7424.6
RHNF3	GR153162	X11965-12977731	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.86	7096.2
RHNF3	GR153164	X11960-5524484	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			93.90	6691.5
RHNF3	GR153166	X11951-5510579	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.6			23.7			93.54			6056.2
RHNF3	GR153168	X11948-11243602	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			93.56			5873.6
RHNF3	GR153174	X33306-5524481	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.18	5684.1
RHNF3	GR153176	X11932-5524475	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.6			23.7			93.79			4779.7
RHNF3	GR153180	X11984-5524856	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			93.84			4652.1
RHNF3	GR153182	X11923-5526327	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.68	4255.2
RHNF3	GR153205	TP5569-5525954	8.32KV_UNKNOWN_300_3P	Two-Winding Transformer	0.0		300.00	27.4	27.4	27.4	6.1	6.0	6.0	9.1	9.1	9.1	94.06	95.33	94.53	4815.9
RHNF3	GR153215	TP5399-5525435	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			94.12	5077.9
RHNF3	GR153220	TP5584-5525955	8.32KV_UNKNOWN_150_3P	Two-Winding Transformer	0.0		150.00	11.9	9.4	5.5	2.6	2.0	1.2	7.9	6.2	3.6	93.91	95.34	94.41	5026.1

Feeder Id (Balace)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR153249	GB007869-5512528	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			94.76		6078.1
RHNF3	GR153251	X60306-16477220	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			93.75	5922.9
RHNF3	GR153258	GB003857-5524543	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	23.9			5.3			23.7			92.76			5966.1
RHNF3	GR153263	GB003858-5525242	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	23.9			5.3			23.7			92.75			6086.5
RHNF3	GR153268	TP6145-5525057	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			92.74			6206.0
RHNF3	GR153272	TP5499-5524544	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			10.9			2.4			10.9			93.75	5901.1
RHNF3	GR153277	GB003855-5525064	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.1			18.7			94.77		5951.3
RHNF3	GR153280	X60314-16477237	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			94.79		5587.2
RHNF3	GR153302	X11817-5524032	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			4.7			1.0			18.7			93.29	6614.1
RHNF3	GR153304	X11819-1676050	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			4.7			1.0			18.7			93.29	6498.0
RHNF3	GR153309	TP10386-5524719	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			9.4			2.1			18.7			93.28	6454.8
RHNF3	GR153314	TP10387-5524899	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			9.4			2.1			18.7			93.25	6674.6
RHNF3	GR153319	TP10388-5524717	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			18.8			4.2			18.7			93.23	6887.7
RHNF3	GR153324	TP7746-1653326	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			9.4			2.1			18.7			93.22	7060.1
RHNF3	GR153329	X11824-5524720	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			9.4			2.1			18.7			93.33	6127.1
RHNF3	GR153331	X11826-5524907	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.9			0.4			18.7			93.37	5949.5
RHNF3	GR153336	TP10385-1653332	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			14.1			3.1			18.7			93.35	6082.3
RHNF3	GR153341	TP10384-1653328	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			9.4			2.1			18.7			93.32	6307.8
RHNF3	GR153347	TP7742-1653378	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			18.8			4.2			18.7			93.28	6706.7
RHNF3	GR153353	TP7745-1653327	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			9.4			2.1			18.7			93.27	6992.6
RHNF3	GR153356	X11831-5524529	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			4.7			1.0			18.7			93.48	5655.9
RHNF3	GR153365	GB003862-1687164	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			92.77			5853.6
RHNF3	GR153370	GB003863-5524522	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			92.76			6030.6
RHNF3	GR153378	TP5500-5524889	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			10.9			2.4			10.9			93.75	5692.0
RHNF3	GR153384	GB003856-1692091	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.1			18.7			94.75		6396.2
RHNF3	GR153403	X11847-5526280	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			94.87		6214.0
RHNF3	GR153448	X36721-5525402	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			91.82			7731.6
RHNF3	GR153455	X36702-5525386	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	17.9			4.0			23.7			91.81			7759.2
RHNF3	GR153457	X36716-5525387	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			91.82			7632.4
RHNF3	GR153478	X46775-15659263	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	17.9			4.0			23.7			91.73			8074.7
RHNF3	GR153480	X36459-5525032	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			91.74			7956.9
RHNF3	GR153482	X36470-1676034	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			91.75			7811.6
RHNF3	GR153491	X36449-1676032	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			91.75			7915.9
RHNF3	GR153504	X36460-5526100	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			91.74			8046.6
RHNF3	GR153506	X36445-5525940	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			91.75			7861.1
RHNF3	GR153508	X42643-13488988	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	12.0			2.7			23.7			91.76			7759.0
RHNF3	GR153514	X36469-1683458	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			91.76			7833.4
RHNF3	GR153516	X36713-5526289	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			91.78			7675.2
RHNF3	GR153526	X36706-5525205	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.0			18.7			95.15		7683.4
RHNF3	GR153531	TP3989-5524353	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	17.9			4.0			23.7			91.79			7747.2
RHNF3	GR153533	X36285-5525554	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		2.8			0.6			18.7			95.14		7519.8
RHNF3	GR153535	X36284-5525041	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.59	7459.0
RHNF3	GR153537	X36280-5525222	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		2.8			0.6			18.7			95.11		7404.8
RHNF3	GR153539	X36276-5525558	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			95.10		7344.4
RHNF3	GR153541	X32149-5525200	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			95.08		7264.1
RHNF3	GR153544	X11998-1677697	8.32KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			4.1			0.9			10.9			93.63	6928.3
RHNF3	GR153546	X34865-11429562	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			8.2			1.8			10.9			93.65	6637.4
RHNF3	GR153550	X11841-5526492	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			94.85		6061.3
RHNF3	GR153552	X11840-5526507	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		9.4			2.1			18.7			94.84		5974.5
RHNF3	GR153554	X11837-5525424	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.74	5751.6
RHNF3	GR153556	X11836-5525425	8.32KV_120V/208V_75_3P	Two-Winding Transformer	0.0		75.00	5.9	4.7	2.7	1.3	1.0	0.6	7.9	6.2	3.6	93.40	95.28	94.04	5673.0
RHNF3	GR153558	X11850-5524888	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			93.76	5572.0
RHNF3	GR153560	X60319-18075155	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			8.2			1.8			10.9			93.78	5499.2
RHNF3	GR153564	X36688-5525409	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.04	5190.5
RHNF3	GR153566	X11860-5525073	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.07	5087.7
RHNF3	GR153572	X36687-5525951	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.4			0.5			23.7			93.34			5055.5
RHNF3	GR153574	X45764-5524902	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00	2.4			0.5			23.7			93.40			4829.1
RHNF3	GR153580	TP12577-5525060	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.1			18.7			94.84		4879.1
RHNF3	GR153585	TP12578-5524894	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.1			18.7			94.82		5028.9
RHNF3	GR153590	TP12579-5525965	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.1			18.7			94.80		5175.6
RHNF3	GR153595	TP12580-5525600	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		18.8			4.1			18.7			94.76		5696.4
RHNF3	GR153600	X11873-5524661	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			94.94		4557.2
RHNF3	GR153602	X11880-5524884	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.9			0.4			18.7			95.18		4040.0
RHNF3	GR153604	X12011-1676028	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			94.89			3406.1
RHNF3	GR153606	X12018-1694630	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		14.1			3.0			18.7			96.23		2928.0
RHNF3	GR153638	X33311-5526322	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			95.12	4383.7
RHNF3	GR153652	X33301-5524707	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.76	5025.9
RHNF3	GR153661	TP14061-18178057	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			10.9			2.4			10.9			94.66	5362.6
RHNF3	GR153673	X33493-5510591	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.48	5664.5
RHNF3	GR153683	X12106-5513289	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.29	6025.4
RHNF3	GR153685	X12105-5513094	8.32KV_120V/240V_5_1P	Two-Winding Transformer	0.0		5.00			0.5			0.1			10.9			94.32	5941.8
RHNF3	GR153687	X12098-5512524	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			2.7			0.6			10.9			94.55	5415.4
RHNF3	GR153689	X12096-5512523	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00			1.1			0.2			10.9			94.61	5272.7
RHNF3	GR153693	X33484-5510590	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			5.5			1.2			10.9			94.64	5252.5
RHNF3	GR153702	X33313-5524708	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00			1.6			0.4			10.9			95.04	4854.8

Feeder Id (Balace)	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
RHNF3	GR153704	X12079-5510604	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00			1.6			0.4			10.9			95.20	4085.9
RHNF3	GR153708	X33314-5524866	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			96.51		2797.8
RHNF3	GR153710	X12056-5524508	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	6.0			1.3			23.7			96.04			2609.2
RHNF3	GR153712	X12054-5524509	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.9			0.4			18.7			96.73		2461.3
RHNF3	GR153718	X35770-1676031	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			97.46		1905.5
RHNF3	GR153720	X12040-5512131	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.9			0.4			18.7			98.06		1257.4
RHNF3	GR153722	X12042-5510968	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		4.7			1.0			18.7			98.21		1124.4
RHNF3	GR153726	X35772-5510987	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.9			0.4			18.7			98.21		1189.6
RHNF3	GR153728	X12046-5510969	8.32KV_120V/240V_10_1P	Two-Winding Transformer	0.0		10.00		1.9			0.4			18.7			98.57		817.7
RHNF3	GR153733	X35763-5510970	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00	3.6			0.8			23.7			98.40			831.5

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
UN04	GR239730	UN04-7000098	4.16KV_600A	Breaker	0.0			900.8	674.5	699.7	375.1	280.8	291.3	62.5	46.8	48.6	100.00	100.00	100.00	0.0
UN04	GR239730	7000621	BUS4.16KV_3P_0A__AIR	Cable	0.1	600.0000		900.8	674.5	699.7	375.1	280.8	291.3	62.5	46.8	48.6	100.00	100.00	100.00	0.1
UN04	GR239731	7000622	BUS4.16KV_3P_0A__AIR	Cable	0.1	600.0000		900.8	674.5	699.7	375.1	280.8	291.3	62.5	46.8	48.6	100.00	100.00	100.00	0.2
UN04	GR239732	7000276	BUS4.16KV_3P_0A__AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	100.00	100.00	0.3
UN04	GR239733	7000623	BUS4.16KV_3P_0A__AIR	Cable	0.1	600.0000		900.8	674.5	699.7	375.1	280.8	291.3	62.5	46.8	48.6	100.00	100.00	100.00	0.3
UN04	GR239734	7028497	4.16KV_3P_350_CU_PILC	Cable	0.8	340.0000		900.8	674.5	699.7	375.1	280.8	291.3	110.3	82.6	85.7	100.00	100.00	100.00	1.1
UN04	GR239735	7031578	4.16KV_3P_350_CU_PILC	Cable	20.6	340.0000		900.8	674.5	699.7	375.1	280.8	291.3	110.3	82.6	85.7	99.90	99.97	100.00	21.7
UN04	GR239736	7031758	4.16KV_3P_500_CU_EPR	Cable	124.4	455.0000		899.9	674.4	699.7	375.1	280.8	291.3	82.4	61.7	64.0	99.45	99.63	99.68	146.1
UN04	GR239737	7032843	4.16KV_3P_350_CU_PILC	Cable	29.4	340.0000		895.8	672.0	697.4	375.1	280.8	291.3	110.3	82.6	85.7	99.31	99.59	99.68	175.5
UN04	GR239748	18112585	4.16KV_3P_1/0_CU_XLPE	Cable	11.1	220.0000		56.1	32.3	25.3	23.6	13.5	10.6	10.7	6.1	4.8	98.80	99.35	99.38	395.1
UN04	GR239761	7028830	4.16KV_1P_1/0_AL_XLPE	Cable	52.2	220.0000			64.4			27.0			12.3			99.32		304.0
UN04	GR239764	7028832	4.16KV_1P_1/0_AL_XLPE	Cable	2.0	220.0000			32.2			13.5			6.1			99.32		306.0
UN04	GR239772	7032524	4.16KV_1P_1/0_AL_XLPE	Cable	39.3	220.0000			32.2			13.5			6.1			99.35		293.1
UN04	GR239775	7028831	4.16KV_1P_1/0_AL_XLPE	Cable	32.1	220.0000			0.0			0.0			0.0			99.35		325.2
UN04	GR239871	14707289	4.16KV_3P_1/0_CU_XLPE	Cable	34.6	220.0000		49.5	49.5	49.5	21.5	21.0	21.3	9.8	9.5	9.7	95.77	98.25	96.62	1134.7
UN04	GR239929	7029359	4.16KV_3P_500_AL_XLPE	Cable	4.6	455.0000		9.1	27.9	20.7	4.0	11.8	8.9	0.9	2.6	2.0	96.12	98.19	96.83	1035.1
UN04	GR240026	11347565	4.16KV_3P_1/0_CU_XLPE	Cable	8.5	220.0000		56.1	32.3	25.3	23.8	13.6	10.6	10.8	6.2	4.8	98.31	99.12	98.86	337.8
UN04	GR240034	7033760	4.16KV_3P_1/0_CU_XLPE	Cable	45.6	220.0000		56.1	32.3	25.3	23.8	13.6	10.6	10.8	6.2	4.8	98.27	99.09	98.84	393.9
UN04	GR240041	16464322	4.16KV_3P_1/0_CU_XLPE	Cable	5.9	220.0000		39.1	39.1	39.1	16.6	16.4	16.5	7.5	7.5	7.5	98.28	99.06	98.82	426.0
UN04	GR240050	7030513	4.16KV_1P_350_CU_PILC	Cable	3.8	340.0000				7.9			3.3			1.0			98.82	488.4
UN04	GR240055	7030512	4.16KV_1P_350_CU_PILC	Cable	2.2	340.0000				17.4			7.3			2.2			98.82	484.8
UN04	GR240067	7029670	4.16KV_1P_350_AL_XLPE	Cable	156.8	390.0000				18.9			7.9			2.0			99.60	369.8
UN04	GR240072	7027983	4.16KV_1P_350_AL_XLPE	Cable	40.7	390.0000				0.0			0.0			0.0			99.60	410.5
UN04	GR240074	7028804	4.16KV_1P_350_AL_XLPE	Cable	121.0	390.0000				25.2			10.5			2.7			99.60	335.1
UN04	GR239738	16463478	4.16KV_3P_Y4/0_CU	Overhead Line	2.0	480.0000		894.6	671.8	697.4	375.1	280.8	291.3	78.1	58.5	60.7	99.30	99.59	99.67	177.6
UN04	GR239739	15576257	4.16KV_3P_Y1/0_CU	Overhead Line	4.8	310.0000		894.5	671.7	697.4	375.1	280.8	291.3	121.0	90.6	94.0	99.26	99.57	99.64	182.3
UN04	GR239740	7032203	4.16KV_3P_Y1/0_CU	Overhead Line	41.1	310.0000		894.2	671.6	653.0	375.1	280.8	272.9	121.0	90.6	88.0	98.91	99.39	99.39	223.4
UN04	GR239741	7027956	4.16KV_3P_Y4/0_CU	Overhead Line	23.7	480.0000		84.1	144.9	25.3	35.4	60.7	10.6	7.4	12.6	2.2	98.89	99.37	99.40	247.1
UN04	GR239742	7028829	4.16KV_3P_Y4/0_CU	Overhead Line	2.2	480.0000		84.0	48.4	25.3	35.4	20.3	10.6	7.4	4.2	2.2	98.88	99.37	99.40	249.4
UN04	GR239743	7028821	4.16KV_3P_Y4/0_CU	Overhead Line	35.7	480.0000		84.0	48.4	25.3	35.4	20.3	10.6	7.4	4.2	2.2	98.86	99.37	99.40	285.1
UN04	GR239744	7028822	4.16KV_3P_Y4/0_CU	Overhead Line	26.0	480.0000		56.1	48.4	25.3	23.6	20.3	10.6	4.9	4.2	2.2	98.85	99.37	99.39	311.1
UN04	GR239745	7028823	4.16KV_3P_Y4/0_CU	Overhead Line	40.5	480.0000		56.1	48.4	25.3	23.6	20.3	10.6	4.9	4.2	2.2	98.83	99.36	99.39	351.6
UN04	GR239746	7028824	4.16KV_3P_Y4/0_CU	Overhead Line	31.1	480.0000		56.1	48.4	25.3	23.6	20.3	10.6	4.9	4.2	2.2	98.81	99.36	99.39	382.7
UN04	GR239747	16493006	4.16KV_3P_N1/0_CU	Overhead Line	1.3	310.0000		56.1	32.3	25.3	23.6	13.5	10.6	7.6	4.4	3.4	98.81	99.36	99.39	384.0
UN04	GR239753	7030085	4.16KV_3P_Y4/0_CU	Overhead Line	41.7	480.0000		0.0	16.1	0.0	0.0	6.7	0.0	0.0	1.4	0.0	98.81	99.35	99.39	424.3
UN04	GR239758	7032526	4.16KV_1P_Y1/0_CU	Overhead Line	1.7	310.0000			96.6			40.5			13.1			99.37		248.8
UN04	GR239759	7028825	4.16KV_1P_Y1/0_CU	Overhead Line	1.0	310.0000			64.4			27.0			8.7			99.37		249.8
UN04	GR239760	7028827	4.16KV_1P_Y1/0_CU	Overhead Line	2.0	310.0000			64.4			27.0			8.7			99.37		251.8
UN04	GR239770	7028826	4.16KV_1P_Y1/0_CU	Overhead Line	3.0	310.0000			32.2			13.5			4.3			99.37		251.8
UN04	GR239771	7028828	4.16KV_1P_Y1/0_CU	Overhead Line	2.0	310.0000			32.2			13.5			4.3			99.37		253.8
UN04	GR239779	7032850	4.16KV_3P_Y4/0_CU	Overhead Line	26.0	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.91	99.39	99.39	249.4
UN04	GR239780	7033751	4.16KV_3P_Y1/0_CU	Overhead Line	17.1	310.0000		806.9	525.5	626.1	339.7	220.1	262.3	109.6	71.0	84.6	98.78	99.34	99.28	240.5
UN04	GR239781	7030063	4.16KV_3P_Y1/0_CU	Overhead Line	18.8	310.0000		764.0	525.2	625.4	322.0	220.1	262.3	103.9	71.0	84.6	98.65	99.28	99.16	259.3
UN04	GR239782	7030064	4.16KV_3P_Y1/0_CU	Overhead Line	48.3	310.0000		763.0	524.9	624.7	322.0	220.1	262.3	103.9	71.0	84.6	98.32	99.13	98.86	307.6
UN04	GR239783	15554870	4.16KV_3P_Y1/0_CU	Overhead Line	42.9	310.0000		609.1	380.2	454.2	257.9	159.7	191.3	83.2	51.5	61.7	98.08	99.04	98.66	350.4
UN04	GR239784	7030067	4.16KV_3P_Y1/0_CU	Overhead Line	35.8	310.0000		565.8	379.9	453.3	240.2	159.7	191.3	77.5	51.5	61.7	97.89	98.96	98.49	386.3
UN04	GR239785	7030068	4.16KV_3P_Y1/0_CU	Overhead Line	52.4	310.0000		564.7	379.6	452.6	240.2	159.7	191.3	77.5	51.5	61.7	97.62	98.84	98.25	438.7
UN04	GR239788	7030069	4.16KV_3P_Y1/0_CU	Overhead Line	41.2	310.0000		563.1	363.1	451.4	240.2	152.9	191.3	77.5	49.3	61.7	97.41	98.76	98.06	479.9
UN04	GR239789	18181723	JUMPER	Overhead Line	0.0	600.0000		561.9	362.8	450.6	240.2	152.9	191.3	40.0	25.5	31.9	97.41	98.76	98.06	479.9
UN04	GR239790	15555094	4.16KV_3P_Y1/0_CU	Overhead Line	39.5	310.0000		553.5	357.9	446.8	236.6	150.9	189.7	76.3	48.7	61.2	97.21	98.68	97.87	519.4
UN04	GR239791	16466582	4.16KV_3P_Y1/0_CU	Overhead Line	33.3	310.0000		552.4	357.6	445.9	236.6	150.9	189.7	76.3	48.7	61.2	97.05	98.61	97.72	552.7
UN04	GR239792	16466581	4.16KV_3P_Y1/0_CU	Overhead Line	18.5	310.0000		551.5	333.3	445.2	236.6	140.7	189.7	76.3	45.4	61.2	96.96	98.58	97.63	571.2
UN04	GR239793	16466568	4.16KV_3P_Y1/0_CU	Overhead Line	50.5	310.0000		523.0	333.2	444.8	224.6	140.7	189.7	72.5	45.4	61.2	96.72	98.48	97.39	621.7
UN04	GR239794	16466567	4.16KV_3P_Y1/0_CU	Overhead Line	32.6	310.0000		521.8	316.8	443.7	224.6	133.9	189.7	72.5	43.2	61.2	96.58	98.42	97.23	654.3
UN04	GR239795	15470726	4.16KV_3P_Y1/0_CU	Overhead Line	26.0	310.0000		132.6	36.1	135.8	57.2	15.3	58.1	18.4	4.9	18.8	96.55	98.43	97.18	680.3
UN04	GR239796	7030098	4.16KV_3P_Y1/0_CU	Overhead Line	19.4	310.0000		132.6	36.1	116.8	57.2	15.3	50.0	18.4	4.9	16.1	96.53	98.43	97.15	699.7
UN04	GR239797	7030095	4.16KV_3P_Y1/0_CU	Overhead Line	33.7	310.0000		112.0	24.1	107.3	48.3	10.2	46.0	15.6	3.3	14.8	96.50	98.43	97.10	733.4
UN04	GR239798	7029423	4.16KV_1P_Y1/0_CU	Overhead Line	30.9	310.0000				50.5			21.6			7.0			97.08	764.4
UN04	GR239799	7030053	4.16KV_1P_Y1/0_CU	Overhead Line	34.6	310.0000				44.2			18.9			6.1			97.06	799.0
UN04	GR239800	7030078	4.16KV_1P_Y1/0_CU	Overhead Line	35.7	310.0000				31.5			13.5			4.4			97.05	834.7
UN04	GR239801	7030079	4.16KV_1P_Y1/0_CU	Overhead Line	26.4	310.0000				18.9			8.1			2.6			97.04	861.1
UN04	GR239802	7030292	4.16KV_1P_Y1/0_CU	Overhead Line	32.6	310.0000				0.0			0.0			0.0			97.04	893.7
UN04	GR239803	7030293	4.16KV_1P_Y1/0_CU	Overhead Line	26.1	310.0000				0.0			0.0			0.0			97.04	919.8
UN04	GR239812	7030086	4.16KV_2P_Y1/0_CU	Overhead Line	36.1	310.0000			0.0	31.5		0.0	13.5		0.0	4.4		98.43	97.09	769.5
UN04	GR239813	7030290	4.16KV_2P_Y1/0_CU	Overhead Line	31.0	310.0000			0.0	18.9		0.0	8.1		0.0	2.6		98.43	97.08	800.5
UN04	GR239818	7030094	4.16KV_3P_Y1/0_CU	Overhead Line	4.5	310.0000		111.9	24.1	25.2	48.3	10.2	10.8	15.6	3.3	3.5	96.50	98.44	97.10	738.0
UN04	GR239819	15555128	4.16KV_3P_Y1/0_CU	Overhead Line	30.2	310.0000		111.9	24.1	25.2	48.3	10.2	10.8	15.6	3.3	3.5	96.46	98.45	97.09	768.2
UN04	GR239820	7033747	4.16KV_3P_Y1/0_CU	Overhead Line	44.1	310.0000		111.9	0.0	25.2	48.3	0.0	10.8	15.6	0.0	3.5	96.40	98.48	97.06	812.2
UN04	GR239821	7030082	4.16KV_3P_Y4/0_ACSR	Overhead Line	38.8	480.0000		41.9	0.0	12.6	18.1	0.0	5.4	3.8	0.0	1.1	96.39	98.48	97.05	851.1
UN04	GR239822	13172022	4.16KV_3P_Y4/0_ACSR	Overhead Line	38.5	480.0000		41.9	0.0	12.6	18.1	0.0	5.4	3.8	0.0	1.1	96.38	98.49	97.04	889.6
UN04	GR239823	7030080	4.16KV_3P_Y4/0_ACSR	Overhead Line	33.9	480.0000		41.9	0.0	0.0	18.1	0.0	0.0	3.8	0.0	0.0	96.37	98.50	97.04	923.5
UN04	GR239824	7033746	4.16KV_3P_Y4/0_ACSR	Overhead Line	47.4	480.0000		41.9	0.0	0.0	18.1	0.0	0.0	3.8	0.0	0.0	96.35	98.51	97.03	970.8
UN04	GR239825	7030087	4.16KV_3P_Y4/0_ACSR	Overhead Line	32.1	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.35	98.51	97.03	1002.9

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
UN04	GR239826	7032520	4.16KV_3P_Y4/0_ACSR	Overhead Line	28.8	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.35	98.51	97.03	1031.7
UN04	GR239831	7030088	DEFAULT	Overhead Line	33.4	1000.0000				12.6			5.4			0.5			97.05	845.6
UN04	GR239832	7030089	DEFAULT	Overhead Line	33.4	1000.0000				12.6			5.4			0.5			97.04	879.0
UN04	GR239833	7030090	DEFAULT	Overhead Line	34.0	1000.0000				0.0			0.0			0.0			97.04	912.9
UN04	GR239834	7028180	DEFAULT	Overhead Line	34.0	1000.0000				0.0			0.0			0.0			97.04	946.9
UN04	GR239835	7028181	DEFAULT	Overhead Line	23.1	1000.0000				0.0			0.0			0.0			97.04	970.0
UN04	GR239838	7030092	4.16KV_3P_Y1/0_CU	Overhead Line	46.5	310.0000		69.9	0.0	0.0	30.2	0.0	0.0	9.7	0.0	0.0	96.36	98.50	97.05	858.8
UN04	GR239841	7030091	4.16KV_1P_Y1/0_CU	Overhead Line	12.7	310.0000		41.9			18.1			5.8			96.36			871.5
UN04	GR239842	7029425	4.16KV_1P_Y1/0_CU	Overhead Line	38.8	310.0000		41.9			18.1			5.8			96.33			910.3
UN04	GR239851	7028281	4.16KV_3P_Y4/0_CU	Overhead Line	33.9	480.0000		388.3	280.5	307.2	167.4	118.7	131.6	34.9	24.7	27.4	96.49	98.39	97.16	688.2
UN04	GR239852	7028520	4.16KV_3P_Y4/0_CU	Overhead Line	46.1	480.0000		388.0	280.4	288.1	167.4	118.7	123.5	34.9	24.7	25.7	96.38	98.34	97.06	734.3
UN04	GR239853	7028522	4.16KV_3P_Y4/0_CU	Overhead Line	38.7	480.0000		387.5	264.2	287.8	167.4	111.9	123.5	34.9	23.3	25.7	96.28	98.31	96.98	773.0
UN04	GR239854	7028746	4.16KV_3P_Y4/0_CU	Overhead Line	32.1	480.0000		387.1	264.1	287.6	167.4	111.9	123.5	34.9	23.3	25.7	96.20	98.29	96.92	805.1
UN04	GR239855	7031878	4.16KV_3P_Y4/0_CU	Overhead Line	37.1	480.0000		386.8	264.0	268.5	167.4	111.9	115.3	34.9	23.3	24.0	96.11	98.26	96.85	842.2
UN04	GR239856	7028542	4.16KV_3P_Y4/0_CU	Overhead Line	46.0	480.0000		274.0	89.7	131.8	118.7	38.0	56.7	24.7	7.9	11.8	96.02	98.28	96.79	888.2
UN04	GR239857	7028735	4.16KV_3P_Y4/0_CU	Overhead Line	30.6	480.0000		217.8	89.8	106.5	94.5	38.0	45.8	19.7	7.9	9.5	95.97	98.29	96.75	918.8
UN04	GR239858	7028736	4.16KV_3P_Y4/0_CU	Overhead Line	52.3	480.0000		217.7	89.8	106.4	94.5	38.0	45.8	19.7	7.9	9.5	95.89	98.30	96.70	971.0
UN04	GR239859	7028737	4.16KV_3P_Y4/0_CU	Overhead Line	44.6	480.0000		133.7	89.8	87.4	58.0	38.0	37.6	12.1	7.9	7.8	95.84	98.29	96.67	1015.7
UN04	GR239860	7028738	4.16KV_3P_Y4/0_CU	Overhead Line	32.3	480.0000		133.6	89.8	87.4	58.0	38.0	37.6	12.1	7.9	7.8	95.81	98.28	96.65	1047.9
UN04	GR239861	12972450	4.16KV_1P_Y1/0_CU	Overhead Line	25.7	310.0000		41.9			18.2			5.9			95.80			1073.6
UN04	GR239865	12972455	4.16KV_1P_Y4/0_CU	Overhead Line	16.0	480.0000				18.9			8.2			1.7			96.65	1063.9
UN04	GR239868	7028729	4.16KV_3P_Y4/0_CU	Overhead Line	21.7	480.0000		91.7	89.8	68.5	39.8	38.0	29.5	8.3	7.9	6.1	95.80	98.27	96.65	1069.6
UN04	GR239869	15605039	4.16KV_3P_Y4/0_CU	Overhead Line	21.5	480.0000		49.5	65.6	49.5	21.5	27.8	21.3	4.5	5.8	4.4	95.79	98.27	96.64	1091.1
UN04	GR239870	14626127	4.16KV_3P_Y4/0_CU	Overhead Line	9.0	480.0000		49.5	49.5	49.5	21.5	21.0	21.3	4.5	4.4	4.4	95.79	98.26	96.64	1100.1
UN04	GR239875	7029398	4.16KV_1P_Y1/0_CU	Overhead Line	47.2	310.0000			16.1			6.8			2.2			98.26		1138.3
UN04	GR239876	7029178	4.16KV_1P_Y1/0_CU	Overhead Line	34.1	310.0000			16.1			6.8			2.2			98.25		1172.3
UN04	GR239877	7029179	4.16KV_1P_Y1/0_CU	Overhead Line	38.0	310.0000			16.1			6.8			2.2			98.24		1210.3
UN04	GR239883	7030786	4.16KV_1P_Y1/0_CU	Overhead Line	2.5	310.0000		69.9			30.3			9.8			95.88			973.6
UN04	GR239884	7032514	4.16KV_1P_Y1/0_CU	Overhead Line	1.8	310.0000		69.9			30.3			9.8			95.88			975.4
UN04	GR239885	7029360	4.16KV_1P_Y1/0_CU	Overhead Line	39.7	310.0000		69.9			30.3			9.8			95.85			1015.1
UN04	GR239886	7028740	4.16KV_1P_Y1/0_CU	Overhead Line	39.8	310.0000		41.9			18.2			5.9			95.82			1054.9
UN04	GR239887	7029169	4.16KV_1P_Y1/0_CU	Overhead Line	31.6	310.0000		14.0			6.1			2.0			95.82			1086.5
UN04	GR239894	7033099	4.16KV_1P_Y1/0_CU	Overhead Line	26.0	310.0000				18.9			8.1			2.6			96.70	997.0
UN04	GR239895	7029372	4.16KV_1P_Y1/0_CU	Overhead Line	37.7	310.0000				18.9			8.1			2.6			96.69	1034.8
UN04	GR239900	7030782	4.16KV_1P_Y1/0_CU	Overhead Line	5.6	310.0000		55.9			24.2			7.8			96.01			893.8
UN04	GR239901	7028298	4.16KV_1P_Y1/0_CU	Overhead Line	22.6	310.0000		55.9			24.2			7.8			96.00			916.5
UN04	GR239902	7028739	4.16KV_1P_Y1/0_CU	Overhead Line	25.9	310.0000		55.9			24.2			7.8			95.98			942.4
UN04	GR239903	7029168	4.16KV_1P_Y1/0_CU	Overhead Line	33.6	310.0000		27.9			12.1			3.9			95.97			975.9
UN04	GR239904	7030141	4.16KV_1P_Y1/0_CU	Overhead Line	35.6	310.0000		27.9			12.1			3.9			95.95			1011.5
UN04	GR239909	7030787	4.16KV_1P_Y1/0_CU	Overhead Line	5.9	310.0000				25.2			10.9			3.5			96.78	894.2
UN04	GR239910	7030788	4.16KV_1P_Y1/0_CU	Overhead Line	7.6	310.0000				25.2			10.9			3.5			96.78	901.7
UN04	GR239911	7030575	4.16KV_1P_Y1/0_CU	Overhead Line	16.8	310.0000				25.2			10.9			3.5			96.78	918.5
UN04	GR239912	7027803	4.16KV_1P_Y1/0_CU	Overhead Line	24.8	310.0000				25.2			10.9			3.5			96.77	943.4
UN04	GR239913	7027802	4.16KV_1P_Y1/0_CU	Overhead Line	36.5	310.0000				25.2			10.9			3.5			96.76	979.9
UN04	GR239914	7027804	4.16KV_1P_Y1/0_CU	Overhead Line	35.6	310.0000				25.2			10.9			3.5			96.74	1015.5
UN04	GR239915	7028960	4.16KV_1P_Y1/0_CU	Overhead Line	34.2	310.0000				12.6			5.4			1.8			96.74	1049.7
UN04	GR239920	7029400	4.16KV_3P_Y4/0_CU	Overhead Line	31.1	480.0000		9.1	43.9	33.3	4.0	18.6	14.3	0.8	3.9	3.0	96.11	98.24	96.85	873.3
UN04	GR239921	7028747	4.16KV_3P_Y4/0_CU	Overhead Line	36.9	480.0000		9.1	27.9	33.3	4.0	11.8	14.3	0.8	2.5	3.0	96.11	98.23	96.84	910.2
UN04	GR239922	7033097	4.16KV_3P_Y4/0_CU	Overhead Line	35.0	480.0000		9.1	27.9	33.3	4.0	11.8	14.3	0.8	2.5	3.0	96.12	98.22	96.84	945.2
UN04	GR239923	7028748	4.16KV_3P_Y4/0_CU	Overhead Line	41.0	480.0000		9.1	27.9	20.7	4.0	11.8	8.9	0.8	2.5	1.9	96.12	98.21	96.83	986.1
UN04	GR239924	7028959	4.16KV_3P_Y4/0_CU	Overhead Line	36.0	480.0000		9.1	27.9	20.7	4.0	11.8	8.9	0.8	2.5	1.9	96.12	98.20	96.83	1022.2
UN04	GR239925	7029361	4.16KV_3P_Y4/0_CU	Overhead Line	11.4	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.12	98.20	96.83	1033.6
UN04	GR239926	12978130	4.16KV_3P_Y4/0_ACSR	Overhead Line	18.9	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.12	98.20	96.83	1052.4
UN04	GR239927	7032102	4.16KV_3P_Y4/0_CU	Overhead Line	4.2	480.0000		9.1	27.9	20.7	4.0	11.8	8.9	0.8	2.5	1.9	96.12	98.19	96.83	1026.4
UN04	GR239928	7029362	4.16KV_3P_Y1/0_CU	Overhead Line	4.1	310.0000		9.1	27.9	20.7	4.0	11.8	8.9	1.3	3.8	2.9	96.12	98.19	96.83	1030.5
UN04	GR239937	7031679	4.16KV_3P_Y4/0_CU	Overhead Line	2.0	480.0000		103.8	130.6	103.3	45.0	55.3	44.4	9.4	11.5	9.3	96.11	98.26	96.85	844.2
UN04	GR239938	7029363	4.16KV_3P_Y4/0_CU	Overhead Line	32.8	480.0000		103.8	130.6	84.4	45.0	55.3	36.3	9.4	11.5	7.6	96.08	98.23	96.84	877.0
UN04	GR239939	7028749	4.16KV_3P_Y4/0_CU	Overhead Line	42.6	480.0000		103.8	130.5	84.3	45.0	55.3	36.3	9.4	11.5	7.6	96.05	98.20	96.83	919.7
UN04	GR239940	15464224	4.16KV_3P_Y4/0_CU	Overhead Line	1.6	480.0000		103.7	118.4	84.3	45.0	50.2	36.3	9.4	10.5	7.6	96.05	98.20	96.83	921.3
UN04	GR239941	7027387	4.16KV_3P_Y4/0_CU	Overhead Line	3.6	480.0000		103.7	118.4	84.3	45.0	50.2	36.3	9.4	10.5	7.6	96.04	98.20	96.83	924.9
UN04	GR239942	7027385	4.16KV_3P_Y1/0_CU	Overhead Line	39.3	310.0000		28.0	32.2	12.6	12.1	13.6	5.4	3.9	4.4	1.7	96.03	98.19	96.83	964.1
UN04	GR239943	7028767	4.16KV_3P_Y1/0_CU	Overhead Line	35.8	310.0000		28.0	16.1	12.6	12.1	6.8	5.4	3.9	2.2	1.8	96.02	98.18	96.82	999.9
UN04	GR239944	7032509	4.16KV_3P_Y1/0_CU	Overhead Line	49.7	310.0000		27.9	16.1	0.0	12.1	6.8	0.0	3.9	2.2	0.0	96.00	98.18	96.82	1049.6
UN04	GR239945	7028761	4.16KV_3P_Y1/0_CU	Overhead Line	32.5	310.0000		27.9	0.0	0.0	12.1	0.0	0.0	3.9	0.0	0.0	95.99	98.19	96.82	1082.1
UN04	GR239946	11644094	4.16KV_3P_Y1/0_CU	Overhead Line	1.0	310.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.99	98.19	96.82	1083.2
UN04	GR239957	7027390	4.16KV_3P_Y4/0_CU	Overhead Line	26.5	480.0000		75.8	86.2	71.7	32.8	36.6	30.8	6.8	7.6	6.4	96.03	98.18	96.82	951.3
UN04	GR239958	7027391	4.16KV_3P_Y4/0_CU	Overhead Line	24.4	480.0000		75.8	86.2	59.1	32.8	36.6	25.4	6.8	7.6	5.3	96.02	98.17	96.81	975.7
UN04	GR239959	7027392	4.16KV_3P_Y4/0_CU	Overhead Line	26.1	480.0000		75.8	86.2	59.1	32.8	36.6	25.4	6.8	7.6	5.3	96.00	98.16	96.81	1001.8
UN04	GR239960	7030816	4.16KV_3P_Y4/0_CU	Overhead Line	36.5	480.0000		75.7	86.2	59.1	32.8	36.6	25.4	6.8	7.6	5.3	95.98	98.14	96.80	1038.3
UN04	GR239961	7029844	4.16KV_3P_Y4/0_CU	Overhead Line	28.6	480.0000		33.8	86.2	59.1	14.7	36.6	25.4	3.1	7.6	5.3	95.97	98.12	96.79	1066.9
UN04	GR239962	7029843	4.16KV_3P_Y4/0_CU	Overhead Line	28.7	480.0000		33.8	74.1	59.1	14.7	31.4	25.4	3.1	6.6	5.3	95.97	98.10	96.79	1095.6
UN04	GR239963	7029842	4.16KV_3P_Y4/0_ACSR	Overhead Line	36.1	480.0000		33.8	58.0	59.1	14.7	24.6	25.4	3.1	5.1	5.3	95.97	98.09	96.78	1131.7
UN04	GR239964	7029841	4.16KV_3P_Y4/0_ACSR	Overhead Line	38.3	480.0000		33.8	58.0	59.1	14.7	24.6	25.4	3.1	5.1	5.3	95.96	98.07	96.77	1170.0

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
UN04	GR239965	7032313	4.16KV_3P_Y4/0_ACSR	Overhead Line	17.5	480.0000		33.8	58.0	59.1	14.7	24.6	25.4	3.1	5.1	5.3	95.96	98.06	96.76	1187.5
UN04	GR239966	7029380	4.16KV_3P_Y4/0_ACSR	Overhead Line	23.5	480.0000		33.8	58.0	59.1	14.7	24.6	25.4	3.1	5.1	5.3	95.96	98.05	96.76	1210.9
UN04	GR239967	7029381	4.16KV_3P_Y4/0_ACSR	Overhead Line	45.2	480.0000		33.8	58.0	59.1	14.7	24.6	25.4	3.1	5.1	5.3	95.95	98.03	96.74	1256.1
UN04	GR239968	7029384	4.16KV_3P_Y4/0_ACSR	Overhead Line	51.4	480.0000		33.8	58.0	52.7	14.7	24.6	22.7	3.1	5.1	4.7	95.94	98.01	96.73	1307.5
UN04	GR239969	7029385	4.16KV_3P_Y4/0_ACSR	Overhead Line	34.3	480.0000		33.8	57.9	52.7	14.7	24.6	22.7	3.1	5.1	4.7	95.94	97.99	96.72	1341.8
UN04	GR239970	7029387	4.16KV_3P_Y4/0_CU	Overhead Line	24.5	480.0000		33.8	33.8	52.7	14.7	14.4	22.7	3.1	3.0	4.7	95.94	97.98	96.72	1366.3
UN04	GR239971	7029389	4.16KV_3P_Y4/0_CU	Overhead Line	52.8	480.0000		0.0	0.0	18.9	0.0	0.0	8.1	0.0	0.0	1.7	95.94	97.98	96.71	1419.1
UN04	GR239988	7027388	4.16KV_1P_Y4/0_CU	Overhead Line	45.5	480.0000			12.1			5.1			1.1			98.19		965.2
UN04	GR240011	7027953	4.16KV_1P_Y1/0_CU	Overhead Line	17.9	310.0000				34.7			14.6			4.7			98.85	325.5
UN04	GR240012	12988124	4.16KV_1P_Y1/0_CU	Overhead Line	27.7	310.0000				34.7			14.6			4.7			98.84	353.1
UN04	GR240013	7028184	4.16KV_1P_Y1/0_CU	Overhead Line	38.1	310.0000				34.7			14.6			4.7			98.82	391.2
UN04	GR240014	7028185	4.16KV_1P_Y1/0_CU	Overhead Line	35.2	310.0000				22.1			9.3			3.0			98.81	426.3
UN04	GR240015	7028186	4.16KV_1P_Y1/0_CU	Overhead Line	37.6	310.0000				22.1			9.3			3.0			98.80	464.0
UN04	GR240016	7032635	4.16KV_1P_Y1/0_CU	Overhead Line	31.3	310.0000				9.5			4.0			1.3			98.80	495.3
UN04	GR240017	7032636	4.16KV_1P_Y1/0_CU	Overhead Line	17.9	310.0000				9.5			4.0			1.3			98.80	513.2
UN04	GR240024	7028173	4.16KV_3P_Y4/0_CU	Overhead Line	20.0	480.0000		56.1	32.3	25.3	23.8	13.6	10.6	4.9	2.8	2.2	98.31	99.13	98.86	327.5
UN04	GR240025	11347562	4.16KV_3P_N4/0_CU	Overhead Line	1.8	480.0000		56.1	32.3	25.3	23.8	13.6	10.6	4.9	2.8	2.2	98.31	99.13	98.86	329.3
UN04	GR240030	7028174	4.16KV_3P_Y4/0_CU	Overhead Line	1.7	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.31	99.13	98.86	329.2
UN04	GR240031	7029426	4.16KV_3P_Y4/0_CU	Overhead Line	35.5	480.0000		95.2	111.6	89.6	40.3	46.9	37.7	8.4	9.8	7.9	98.30	99.10	98.85	343.1
UN04	GR240032	7028601	4.16KV_3P_Y4/0_CU	Overhead Line	3.2	480.0000		56.1	32.3	25.3	23.8	13.6	10.6	5.0	2.8	2.2	98.30	99.10	98.85	346.3
UN04	GR240033	7028603	4.16KV_3P_Y1/0_CU	Overhead Line	2.1	310.0000		56.1	32.3	25.3	23.8	13.6	10.6	7.7	4.4	3.4	98.30	99.10	98.85	348.3
UN04	GR240038	7030093	4.16KV_3P_Y4/0_CU	Overhead Line	38.8	480.0000		39.1	79.3	64.3	16.6	33.3	27.1	3.5	6.9	5.6	98.29	99.08	98.84	381.9
UN04	GR240039	7030096	4.16KV_3P_Y4/0_CU	Overhead Line	36.5	480.0000		39.1	55.2	64.3	16.6	23.2	27.1	3.5	4.8	5.6	98.29	99.06	98.83	418.4
UN04	GR240040	17983854	4.16KV_3P_N1/0_CU	Overhead Line	1.6	310.0000		39.1	39.1	39.1	16.6	16.4	16.5	5.3	5.3	5.3	98.29	99.06	98.82	420.0
UN04	GR240045	7030097	4.16KV_3P_Y4/0_CU	Overhead Line	25.7	480.0000		0.0	16.1	25.2	0.0	6.8	10.6	0.0	1.4	2.2	98.29	99.06	98.82	444.1
UN04	GR240046	7030262	4.16KV_3P_Y4/0_CU	Overhead Line	36.5	480.0000		0.0	16.1	25.2	0.0	6.8	10.6	0.0	1.4	2.2	98.29	99.05	98.82	480.6
UN04	GR240047	7030265	4.16KV_3P_Y4/0_CU	Overhead Line	29.8	480.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.29	99.05	98.82	510.4
UN04	GR240048	7030269	4.16KV_1P_Y4/0_CU	Overhead Line	1.0	480.0000				25.2			10.6			2.2			98.82	481.6
UN04	GR240049	7030270	4.16KV_1P_Y4/0_CU	Overhead Line	3.0	480.0000				7.9			3.3			0.7			98.82	484.6
UN04	GR240054	7030271	4.16KV_1P_Y4/0_CU	Overhead Line	1.0	480.0000				17.4			7.3			1.5			98.82	482.6
UN04	GR240063	7032204	4.16KV_3P_Y1/0_CU	Overhead Line	25.8	310.0000		0.0	0.0	44.2	0.0	0.0	18.5	0.0	0.0	6.0	99.27	99.56	99.62	208.1
UN04	GR240064	16414133	4.16KV_3P_Y1/0_CU	Overhead Line	1.5	310.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.27	99.56	99.62	209.5
UN04	GR240065	7027982	4.16KV_1P_Y1/0_CU	Overhead Line	3.6	310.0000				44.1			18.5			6.0			99.62	211.7
UN04	GR240066	7028645	4.16KV_1P_Y1/0_CU	Overhead Line	1.4	310.0000				18.9			7.9			2.6			99.62	213.1
UN04	GR240073	7028646	4.16KV_1P_Y1/0_CU	Overhead Line	2.4	310.0000				25.2			10.5			3.4			99.62	214.0
UN04	GR239750	TP12689-16492907	4.16KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	56.1	32.3	25.3	23.6	13.5	10.6	54.9	31.9	25.0	96.78	98.20	98.46	395.1
UN04	GR239754	X30979-1674341	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.7			31.9			98.45		424.3
UN04	GR239756	X30837-1652966	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			11.8			54.9			97.29			285.1
UN04	GR239766	K01038-1659200	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		32.2			13.5			31.9			98.42		306.0
UN04	GR239768	K01037-1659199	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		32.2			13.5			31.9			98.42		304.0
UN04	GR239777	K01036-1659198	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		32.2			13.5			31.9			98.45		293.1
UN04	GR239786	65C1A-0500-1670507	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.94		438.7
UN04	GR239804	X31233-1667269	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			96.30	861.1
UN04	GR239806	X30892-1667268	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.31	834.7
UN04	GR239808	X31232-1667267	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.32	799.0
UN04	GR239810	X27554-1667266	4.16KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			6.3			2.7			25.0			96.34	764.4
UN04	GR239814	X31231-1667264	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			96.34	800.5
UN04	GR239816	X27553-12939090	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.35	769.5
UN04	GR239827	X30705-1668797	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.9			18.1			54.9			94.74			970.8
UN04	GR239829	X30707-1668798	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.30	889.6
UN04	GR239836	X44258-1668792	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.30	879.0
UN04	GR239839	X27622-1670510	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.1			54.9			94.75			858.8
UN04	GR239843	X26261-1652973	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.9			18.1			54.9			94.72			910.3
UN04	GR239845	X27621-1670509	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		24.1			10.2			31.9			97.54		768.2
UN04	GR239847	X28590-16420952	4.16KV_347V/600V_112.5_3P	Two-Winding Transformer	0.0		112.50	20.6	12.0	9.4	8.9	5.1	4.0	18.3	10.6	8.3	96.37	98.33	97.07	699.7
UN04	GR239849	X27620-1652974	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			96.44	680.3
UN04	GR239862	X39383-12972028	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.9			18.2			54.9			94.18			1073.6
UN04	GR239866	X30829-1652980	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.2			25.0			95.91	1063.9
UN04	GR239873	TP10296-14707293	4.16KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	49.5	49.5	49.5	21.5	21.0	21.3	48.5	48.5	48.5	93.84	96.37	94.71	1134.7
UN04	GR239878	X30712-1669886	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.33		1210.3
UN04	GR239881	X47326-14693948	4.16KV_347V/600V_225_3P	Two-Winding Transformer	0.0		225.00	42.1	24.2	19.0	18.3	10.3	8.2	54.9	31.9	25.0	93.71	97.11	95.69	1069.6
UN04	GR239888	X31227-1667276	4.16KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	14.0			6.1			54.9			94.20			1086.5
UN04	GR239890	X30882-1667277	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.1			54.9			94.20			1054.9
UN04	GR239892	X26097-1667278	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.1			54.9			94.23			1015.1
UN04	GR239896	X30880-1668801	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			95.94	1034.8
UN04	GR239898	X30831-1670759	4.16KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	14.0			6.1			54.9			94.27			971.0
UN04	GR239905	X30827-1667275	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.1			54.9			94.34			1011.5
UN04	GR239907	X30884-1668946	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.1			54.9			94.36			942.4
UN04	GR239916	X21545-1668969	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.00	1049.7
UN04	GR239918	X34745-1668957	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.00	1015.5
UN04	GR239931	P00019-1672012	4.16KV_120V/208V_150_3P	Two-Winding Transformer	0.0		150.00	9.1	27.9	20.7	4.0	11.8	8.9	18.2	54.5	40.9	95.79	95.79	95.93	1035.1
UN04	GR239933	X27578-1668913	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.09	945.2
UN04	GR239935	X42988-12978117	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.33			873.3

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
UN04	GR239947	X27606-1665638	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.1			54.9			94.37			1082.1
UN04	GR239950	X27607-1665641	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.27		1049.6
UN04	GR239953	X27608-1665639	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.08	999.9
UN04	GR239955	X21678-1665631	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.28		964.1
UN04	GR239972	X30711-1669884	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			95.96	1419.1
UN04	GR239974	X30710-1668723	4.16KV_347V/600V_112.5_3P	Two-Winding Transformer	0.0		112.50	33.8	33.8	33.8	14.7	14.4	14.6	30.0	30.0	30.0	95.64	97.70	96.42	1366.3
UN04	GR239976	X27574-1667279	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		24.1			10.3			31.9			97.08		1341.8
UN04	GR239978	X27566-13138773	4.16KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00			6.3			2.7			25.0			96.00	1256.1
UN04	GR239980	X27612-1665636	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.19		1095.6
UN04	GR239982	X27611-1665635	4.16KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		12.1			5.1			31.9			97.21		1066.9
UN04	GR239984	X27610-1665634	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.9			18.2			54.9			94.36			1038.3
UN04	GR239986	X27609-1665632	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.4			25.0			96.07	951.3
UN04	GR239989	X30833-1670946	4.16KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50		12.1			5.1			31.9			97.28		965.2
UN04	GR239991	X30832-1670947	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			96.11	844.2
UN04	GR239993	X27579-12546500	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			96.18	805.1
UN04	GR239995	X27580-12546496	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.44		734.3
UN04	GR239997	X43642-1668803	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.1			25.0			96.42	688.2
UN04	GR239999	X38870-1670508	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			97.57		621.7
UN04	GR240001	X27605-1670511	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	27.9			12.0			54.9			95.35			571.2
UN04	GR240003	X27618-1652975	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		24.1			10.2			31.9			97.70		552.7
UN04	GR240005	X27617-11638481	4.16KV_347V/600V_45_3P	Two-Winding Transformer	0.0		45.00	8.4	4.8	3.8	3.6	2.0	1.6	54.9	31.9	25.0	95.82	97.85	97.32	479.9
UN04	GR240007	X27616-1670513	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.9			17.8			54.9			96.50			350.4
UN04	GR240009	X27615-1670512	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			8.0			25.0			98.13	307.6
UN04	GR240018	X30978-1674342	4.16KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			9.5			4.0			25.0			98.07	513.2
UN04	GR240020	X30961-1669253	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.3			25.0			98.08	464.0
UN04	GR240022	X30960-14621212	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			12.6			5.3			25.0			98.10	391.2
UN04	GR240028	TP5856-11294230	4.16KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	56.1	32.3	25.3	23.8	13.6	10.6	54.9	31.9	25.0	96.27	97.96	97.92	337.8
UN04	GR240036	TP3291-1691079	4.16KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	56.1	32.3	25.3	23.8	13.6	10.6	54.9	31.9	25.0	96.23	97.93	97.91	393.9
UN04	GR240043	TN11407-16464314	4.16KV_347V/600V_300_3P	Two-Winding Transformer	0.0		300.00	39.1	39.1	39.1	16.6	16.4	16.5	38.5	38.5	38.5	96.80	97.59	97.35	426.0
UN04	GR240052	K01164-1659289	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			25.2			10.6			25.0			98.09	488.4
UN04	GR240057	X30963-1669248	4.16KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		16.1			6.8			31.9			98.15		480.6
UN04	GR240059	X30962-1669249	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		24.1			10.1			31.9			98.17		381.9
UN04	GR240061	X27613-1670506	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	41.9			17.6			54.9			97.21			240.5
UN04	GR240069	K01279-1659382	4.16KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			18.9			7.9			25.0			98.88	369.8
UN04	GR240076	K01189-1659310	4.16KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			25.2			10.5			25.0			98.88	335.1

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
28F2	GR145639	11255290	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		962.7	1008.7	966.1	200.4	210.0	201.1	33.4	35.0	33.5	100.00	100.00	100.00	0.1
28F2	GR145640	11255305	BUS8.32KV_3P_0A_SECONDARY_NORMAL	Cable	0.1	600.0000		962.7	1008.7	966.1	200.4	210.0	201.1	33.4	35.0	33.5	100.00	100.00	100.00	0.2
28F2	GR145641	11255319	8.32KV_3P_350_CU_XLPE	Cable	1.2	390.0000		962.7	1008.7	966.1	200.4	210.0	201.1	51.4	53.8	51.6	100.00	100.00	100.00	1.4
28F2	GR145684	11359623	8.32KV_1P_2/0_AL_XLPE	Cable	105.8	220.0000				201.4			42.5			19.3			98.54	1440.7
28F2	GR145689	11359658	8.32KV_1P_2/0_AL_XLPE	Cable	169.5	220.0000				185.0			39.1			17.8			98.43	1610.3
28F2	GR145694	11360042	8.32KV_1P_2/0_AL_XLPE	Cable	134.9	220.0000				163.2			34.5			15.7			98.36	1745.2
28F2	GR145699	11360146	8.32KV_1P_2/0_AL_XLPE	Cable	67.9	220.0000				152.2			32.2			14.6			98.33	1813.1
28F2	GR145700	5512140	8.32KV_1P_2/0_AL_XLPE	Cable	197.9	220.0000				152.2			32.2			14.6			98.23	2011.0
28F2	GR145705	5507633	8.32KV_1P_2/0_AL_XLPE	Cable	217.5	220.0000				130.3			27.6			12.6			98.13	2228.5
28F2	GR145710	5511797	8.32KV_1P_2/0_AL_XLPE	Cable	70.8	220.0000				119.4			25.3			11.5			98.10	2299.3
28F2	GR145715	5511944	8.32KV_1P_2/0_AL_XLPE	Cable	148.8	220.0000				108.5			23.0			10.5			98.05	2448.0
28F2	GR145720	5511945	8.32KV_1P_2/0_AL_XLPE	Cable	133.7	220.0000				97.6			20.7			9.4			98.01	2581.7
28F2	GR145725	5508607	8.32KV_1P_2/0_AL_XLPE	Cable	39.7	220.0000				86.7			18.4			8.4			98.00	2621.4
28F2	GR145726	5508608	8.32KV_1P_2/0_AL_XLPE	Cable	157.6	220.0000				86.7			18.4			8.4			97.95	2779.0
28F2	GR145731	5508609	8.32KV_1P_2/0_AL_XLPE	Cable	170.1	220.0000				65.0			13.8			6.3			97.91	2949.1
28F2	GR145736	5509635	8.32KV_1P_2/0_AL_XLPE	Cable	153.1	220.0000				43.3			9.2			4.2			97.89	3102.1
28F2	GR145741	5507948	8.32KV_1P_2/0_AL_XLPE	Cable	5.6	220.0000				21.7			4.6			2.1			97.89	3107.7
28F2	GR145742	5509636	8.32KV_1P_2/0_AL_XLPE	Cable	107.3	220.0000				21.7			4.6			2.1			97.88	3215.0
28F2	GR145747	5509637	8.32KV_1P_2/0_AL_XLPE	Cable	148.5	220.0000				0.0			0.0			0.0			97.88	3363.5
28F2	GR145754	11331714	8.32KV_1P_2/0_AL_XLPE	Cable	6.7	220.0000				10.8			2.3			1.0			98.47	1554.9
28F2	GR145755	11332703	8.32KV_1P_2/0_AL_XLPE	Cable	19.2	220.0000				10.8			2.3			1.0			98.47	1574.1
28F2	GR145763	5508627	8.32KV_2P_2/0_AL_XLPE	Cable	102.7	265.0000		31.7	119.1		6.8	25.3		2.6	9.5		97.73	97.96		1818.3
28F2	GR145764	11331795	8.32KV_1P_2/0_AL_XLPE	Cable	2.4	220.0000		31.7			6.8			3.1			97.73			1820.8
28F2	GR145769	11331808	8.32KV_1P_2/0_AL_XLPE	Cable	140.7	220.0000		26.4			5.6			2.6			97.72			1961.5
28F2	GR145774	5508625	8.32KV_1P_2/0_AL_XLPE	Cable	259.8	220.0000		21.2			4.5			2.0			97.70			2221.3
28F2	GR145779	5511510	8.32KV_1P_2/0_AL_XLPE	Cable	147.1	220.0000		15.9			3.4			1.5			97.70			2368.4
28F2	GR145784	5511509	8.32KV_1P_2/0_AL_XLPE	Cable	140.4	220.0000		10.6			2.3			1.0			97.69			2508.8
28F2	GR145789	5511677	8.32KV_1P_2/0_AL_XLPE	Cable	163.5	220.0000		5.3			1.1			0.5			97.69			2672.3
28F2	GR145794	5513567	8.32KV_1P_2/0_AL_XLPE	Cable	173.3	220.0000		0.0			0.0			0.0			97.69			2845.6
28F2	GR145795	11331809	8.32KV_1P_2/0_AL_XLPE	Cable	84.8	220.0000			119.1			25.3			11.5			97.93		1903.1
28F2	GR145800	11358973	8.32KV_1P_2/0_AL_XLPE	Cable	117.5	220.0000			107.1			22.8			10.4			97.88		2020.6
28F2	GR145805	11358976	8.32KV_1P_2/0_AL_XLPE	Cable	146.1	220.0000			83.3			17.7			8.1			97.84		2166.8
28F2	GR145810	11331847	8.32KV_1P_2/0_AL_XLPE	Cable	143.8	220.0000			71.4			15.2			6.9			97.81		2310.5
28F2	GR145815	13139558	8.32KV_1P_1/0_AL_XLPE	Cable	266.3	220.0000			59.5			12.7			5.8			97.76		2576.9
28F2	GR145820	13080652	8.32KV_1P_1/0_AL_XLPE	Cable	229.2	220.0000			41.6			8.9			4.0			97.73		2806.1
28F2	GR145825	13080656	8.32KV_1P_1/0_AL_XLPE	Cable	122.4	220.0000			29.7			6.3			2.9			97.71		2928.4
28F2	GR145830	13080657	8.32KV_1P_1/0_AL_XLPE	Cable	270.9	220.0000			11.9			2.5			1.2			97.70		3199.4
28F2	GR145835	11335704	8.32KV_1P_1/0_AL_XLPE	Cable	114.5	220.0000			0.0			0.0			0.0			97.70		3313.9
28F2	GR145843	18147655	8.32KV_3P_1000_AL_XLPE	Cable	118.6	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.57	97.90	98.27	1980.9
28F2	GR145867	11475798	8.32KV_3P_1000_AL_XLPE	Cable	130.4	455.0000		73.4	0.0	59.6	15.8	0.0	12.7	3.5	0.0	2.8	96.80	97.49	97.81	2748.5
28F2	GR145868	11473090	8.32KV_3P_1000_AL_XLPE	Cable	118.4	455.0000		73.3	0.0	59.6	15.8	0.0	12.7	3.5	0.0	2.8	96.79	97.49	97.81	2866.9
28F2	GR145869	13576339	8.32KV_3P_1/0_AL_XLPE	Cable	0.0	220.0000		73.3	0.0	59.6	15.8	0.0	12.7	7.2	0.0	5.8	96.79	97.49	97.81	2867.0
28F2	GR145870	13576286	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		73.3	0.0	59.6	15.8	0.0	12.7	2.6	0.0	2.1	96.79	97.49	97.81	2867.1
28F2	GR145871	11539360	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		73.3	0.0	59.6	15.8	0.0	12.7	2.6	0.0	2.1	96.79	97.49	97.81	2867.2
28F2	GR145872	11539358	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		73.3	0.0	59.6	15.8	0.0	12.7	2.6	0.0	2.1	96.79	97.49	97.81	2867.3
28F2	GR145873	11539355	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		73.3	0.0	59.6	15.8	0.0	12.7	2.6	0.0	2.1	96.79	97.49	97.81	2867.4
28F2	GR145874	11539352	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		41.6			9.0			1.5			96.79			2867.5
28F2	GR145875	13576299	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		41.6			9.0			1.5			96.79			2867.6
28F2	GR145876	13576311	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000		41.6			9.0			4.1			96.79			2867.6
28F2	GR145877	13520460	8.32KV_1P_1/0_AL_XLPE	Cable	16.0	220.0000		41.6			9.0			4.1			96.79			2883.5
28F2	GR145878	11473128	8.32KV_1P_1/0_AL_TRXLPE	Cable	82.1	220.0000		41.6			9.0			4.1			96.78			2965.6
28F2	GR145883	11473131	8.32KV_1P_1/0_AL_TRXLPE	Cable	131.3	220.0000		29.7			6.4			2.9			96.77			3096.9
28F2	GR145888	11473134	8.32KV_1P_1/0_AL_TRXLPE	Cable	143.7	220.0000		17.8			3.8			1.7			96.76			3240.5
28F2	GR145889	11429724	8.32KV_1P_1/0_AL_XLPE	Cable	254.5	220.0000		17.8			3.8			1.7			96.74			3495.1
28F2	GR145894	5508671	8.32KV_1P_2/0_AL_XLPE	Cable	307.9	220.0000		0.0			0.0			0.0			96.74			3802.9
28F2	GR145895	11539353	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		31.7			6.8			1.1			96.79			2867.5
28F2	GR145896	13576298	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		31.7			6.8			1.1			96.79			2867.6
28F2	GR145897	13576310	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000		31.7			6.8			3.1			96.79			2867.6
28F2	GR145898	13520480	8.32KV_1P_1/0_AL_XLPE	Cable	17.5	220.0000		31.7			6.8			3.1			96.79			2885.0
28F2	GR145899	11473114	8.32KV_1P_1/0_AL_TRXLPE	Cable	296.7	220.0000		31.7			6.8			3.1			96.76			3181.7
28F2	GR145904	11473164	8.32KV_1P_1/0_AL_TRXLPE	Cable	127.1	220.0000		23.8			5.1			2.3			96.75			3308.9
28F2	GR145909	11473161	8.32KV_1P_1/0_AL_TRXLPE	Cable	133.1	220.0000		15.9			3.4			1.6			96.74			3441.9
28F2	GR145914	11473157	8.32KV_1P_1/0_AL_TRXLPE	Cable	183.8	220.0000		7.9			1.7			0.8			96.74			3625.7
28F2	GR145919	11473154	8.32KV_1P_1/0_AL_TRXLPE	Cable	359.7	220.0000		0.0			0.0			0.0			96.74			3985.5
28F2	GR145920	11539354	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000				59.6			12.7		2.1				97.81	2867.5
28F2	GR145921	13576295	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000				59.6			12.7		2.1				97.81	2867.6
28F2	GR145922	13577664	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000				59.6			12.7		5.8				97.81	2867.6
28F2	GR145923	13577644	8.32KV_1P_1/0_AL_TRXLPE	Cable	117.0	220.0000				59.6			12.7		5.8				97.79	2984.5
28F2	GR145924	11535213	8.32KV_1P_1/0_AL_TRXLPE	Cable	106.8	220.0000				59.6			12.7		5.8				97.76	3091.3
28F2	GR145929	11533889	8.32KV_1P_1/0_AL_TRXLPE	Cable	139.3	220.0000				48.8			10.4		4.7				97.74	3230.6
28F2	GR145934	13520440	8.32KV_1P_2/0_AL_XLPE	Cable	48.1	220.0000				27.1			5.8		2.6				97.74	3278.7
28F2	GR145935	11534017	8.32KV_1P_1/0_AL_TRXLPE	Cable	132.7	220.0000				27.1			5.8		2.6				97.73	3411.4
28F2	GR145940	11488908	8.32KV_1P_1/0_AL_TRXLPE	Cable	96.9	220.0000				16.3			3.5		1.6				97.72	3508.3
28F2	GR145941	11429731	8.32KV_1P_1/0_AL_XLPE	Cable	74.2	220.0000				16.2			3.5		1.6				97.72	3582.5
28F2	GR145946	13127019	8.32KV_1P_1/0_AL_TRXLPE	Cable	223.4	220.0000				0.0			0.0		0.0				97.72	3805.9
28F2	GR145950	11539356	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.79	97.49	97.81	2867.4

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
28F2	GR145951	13576297	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.79	97.49	97.81	2867.5
28F2	GR145952	11539359	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.79	97.49	97.81	2867.3
28F2	GR145953	13576293	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.79	97.49	97.81	2867.4
28F2	GR145981	18175196	8.32KV_3P_1/0_AL_TRXLPE	Cable	34.9	220.0000		74.1	239.0	59.6	16.2	51.6	12.7	7.4	23.5	5.8	95.08	96.36	97.51	3277.0
28F2	GR145982	18986962	8.32KV_2P_1/0_AL_TRXLPE	Cable	31.9	220.0000		74.1	238.9		16.2	51.6		7.4	23.5		95.08	96.33		3309.0
28F2	GR145983	18197902	8.32KV_1P_1/0_AL_TRXLPE	Cable	73.8	220.0000			238.9			51.6			23.5			96.27		3382.7
28F2	GR145988	16430871	8.32KV_1P_1/0_AL_TRXLPE	Cable	68.6	220.0000			214.9			46.5			21.1			96.22		3451.3
28F2	GR145993	16430867	8.32KV_1P_1/0_AL_TRXLPE	Cable	152.0	220.0000			191.0			41.3			18.8			96.13		3603.3
28F2	GR145998	16430859	8.32KV_1P_1/0_AL_TRXLPE	Cable	32.0	220.0000			167.1			36.2			16.4			96.11		3635.3
28F2	GR146003	16430850	8.32KV_1P_1/0_AL_TRXLPE	Cable	138.2	220.0000			143.3			31.0			14.1			96.04		3773.5
28F2	GR146008	16430835	8.32KV_1P_1/0_AL_TRXLPE	Cable	61.4	220.0000			119.4			25.9			11.8			96.02		3834.9
28F2	GR146013	16429182	8.32KV_1P_1/0_AL_TRXLPE	Cable	129.6	220.0000			95.6			20.7			9.4			95.98		3964.4
28F2	GR146018	16428336	8.32KV_1P_1/0_AL_TRXLPE	Cable	41.2	220.0000			71.8			15.6			7.1			95.97		4005.6
28F2	GR146023	16428335	8.32KV_1P_1/0_AL_TRXLPE	Cable	39.4	220.0000			48.1			10.4			4.7			95.96		4044.9
28F2	GR146028	18197922	8.32KV_1P_1/0_AL_TRXLPE	Cable	2.6	220.0000		74.1			16.2			7.4			95.08			3311.5
28F2	GR146033	16424372	8.32KV_1P_1/0_AL_TRXLPE	Cable	116.4	220.0000		63.5			13.9			6.3			95.06			3427.9
28F2	GR146038	16427816	8.32KV_1P_1/0_AL_TRXLPE	Cable	127.6	220.0000		52.9			11.6			5.3			95.03			3555.5
28F2	GR146043	16429068	8.32KV_1P_1/0_AL_TRXLPE	Cable	143.5	220.0000		42.3			9.3			4.2			95.01			3699.0
28F2	GR146048	16429069	8.32KV_1P_1/0_AL_TRXLPE	Cable	119.1	220.0000		31.7			7.0			3.2			95.00			3818.1
28F2	GR146053	16429070	8.32KV_1P_1/0_AL_TRXLPE	Cable	33.7	220.0000		21.1			4.6			2.1			95.00			3851.8
28F2	GR146058	16429065	8.32KV_1P_1/0_AL_TRXLPE	Cable	33.7	220.0000		10.6			2.3			1.1			95.00			3885.5
28F2	GR146062	18986965	8.32KV_1P_1/0_AL_TRXLPE	Cable	119.1	220.0000				59.6			12.7			5.8			97.49	3396.1
28F2	GR146063	18175210	8.32KV_1P_1/0_AL_TRXLPE	Cable	330.0	220.0000				59.6			12.7			5.8			97.42	3726.1
28F2	GR146068	18175426	8.32KV_1P_1/0_AL_TRXLPE	Cable	105.9	220.0000				43.3			9.3			4.2			97.41	3832.0
28F2	GR146073	18175615	8.32KV_1P_1/0_AL_TRXLPE	Cable	91.5	220.0000				21.7			4.6			2.1			97.40	3923.4
28F2	GR146078	18175653	8.32KV_1P_1/0_AL_TRXLPE	Cable	68.4	220.0000				0.0			0.0			0.0			97.40	3991.8
28F2	GR146101	18176912	8.32KV_3P_1000_AL_XLPE	Cable	206.2	455.0000		141.3	166.7	0.0	31.0	36.0	0.0	6.8	7.9	0.0	95.01	96.31	97.53	3505.6
28F2	GR146102	18175203	8.32KV_3P_1000_AL_XLPE	Cable	125.1	455.0000		141.3	166.6	0.0	31.0	36.0	0.0	6.8	7.9	0.0	95.00	96.28	97.53	3630.7
28F2	GR146103	18175395	8.32KV_3P_1/0_AL_XLPE	Cable	0.0	220.0000		141.2	166.5	0.0	31.0	36.0	0.0	14.1	16.4	0.0	95.00	96.28	97.53	3630.7
28F2	GR146104	18175384	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		141.2	166.5	0.0	31.0	36.0	0.0	5.2	6.0	0.0	95.00	96.28	97.53	3630.8
28F2	GR146105	18175371	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		141.2	166.5	0.0	31.0	36.0	0.0	5.2	6.0	0.0	95.00	96.28	97.53	3630.9
28F2	GR146106	18175372	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		141.2	166.5	0.0	31.0	36.0	0.0	5.2	6.0	0.0	95.00	96.28	97.53	3631.0
28F2	GR146107	18175374	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.00	96.28	97.53	3631.1
28F2	GR146108	18175373	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			95.00			3631.2
28F2	GR146109	18175387	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			95.00			3631.3
28F2	GR146110	18175376	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000			0.0			0.0			0.0			96.28		3631.2
28F2	GR146111	18175380	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000			0.0			0.0			0.0			96.28		3631.3
28F2	GR146112	18175386	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000				0.0			0.0			0.0			97.53	3631.2
28F2	GR146113	18175381	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000				0.0			0.0			0.0			97.53	3631.3
28F2	GR146114	18175375	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		141.2	166.5	0.0	31.0	36.0	0.0	5.2	6.0	0.0	95.00	96.28	97.53	3631.1
28F2	GR146115	18175377	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			95.00			3631.2
28F2	GR146116	18175382	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		0.0			0.0			0.0			95.00			3631.3
28F2	GR146117	18175378	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		141.2			31.0			5.2			95.00			3631.2
28F2	GR146118	18175388	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000		141.2			31.0			5.2			95.00			3631.3
28F2	GR146119	18175396	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000		141.2			31.0			14.1			95.00			3631.3
28F2	GR146120	18175206	8.32KV_1P_1/0_AL_TRXLPE	Cable	300.7	220.0000		141.2			31.0			14.1			94.85			3932.0
28F2	GR146121	18175208	8.32KV_1P_1/0_AL_TRXLPE	Cable	60.9	220.0000		141.0			31.0			14.1			94.82			3992.8
28F2	GR146126	18175627	8.32KV_1P_1/0_AL_TRXLPE	Cable	98.1	220.0000		124.7			27.4			12.4			94.78			4090.9
28F2	GR146131	18175632	8.32KV_1P_1/0_AL_TRXLPE	Cable	29.0	220.0000		103.0			22.6			10.3			94.77			4119.9
28F2	GR146136	18177027	8.32KV_1P_1/0_AL_TRXLPE	Cable	164.2	220.0000		81.3			17.9			8.1			94.72			4284.1
28F2	GR146141	18177031	8.32KV_1P_1/0_AL_TRXLPE	Cable	34.5	220.0000		59.6			13.1			6.0			94.72			4318.6
28F2	GR146146	18177029	8.32KV_1P_1/0_AL_TRXLPE	Cable	82.6	220.0000		37.9			8.3			3.8			94.71			4401.2
28F2	GR146151	18175649	8.32KV_1P_1/0_AL_TRXLPE	Cable	64.0	220.0000		21.7			4.8			2.2			94.70			4465.2
28F2	GR146153	18175379	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000			166.5			36.0			6.0			96.28		3631.2
28F2	GR146154	18175383	BUS8.32KV_1P_600A_CU_AIR	Cable	0.1	600.0000			166.5			36.0			6.0			96.28		3631.3
28F2	GR146155	18999398	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000			166.5			36.0			16.4			96.28		3631.3
28F2	GR146156	18999364	8.32KV_1P_1/0_AL_TRXLPE	Cable	208.5	220.0000			166.5			36.0			16.4			96.16		3839.8
28F2	GR146161	16427635	8.32KV_1P_1/0_AL_TRXLPE	Cable	57.5	220.0000			142.6			30.9			14.0			96.14		3897.3
28F2	GR146166	19033254	8.32KV_1P_1/0_AL_TRXLPE	Cable	277.8	220.0000			118.8			25.7			11.7			96.02		4175.1
28F2	GR146171	16431001	8.32KV_1P_1/0_AL_TRXLPE	Cable	103.6	220.0000			94.8			20.6			9.3			95.99		4278.8
28F2	GR146176	16431000	8.32KV_1P_1/0_AL_TRXLPE	Cable	93.0	220.0000			71.1			15.4			7.0			95.97		4371.8
28F2	GR146181	16430999	8.32KV_1P_1/0_AL_TRXLPE	Cable	81.3	220.0000			47.3			10.3			4.7			95.96		4453.0
28F2	GR146186	16430974	8.32KV_1P_1/0_AL_TRXLPE	Cable	40.6	220.0000			23.6			5.1			2.3			95.95		4493.6
28F2	GR146191	16428064	8.32KV_1P_1/0_AL_TRXLPE	Cable	224.5	220.0000			3.3			0.7			0.3			95.95		4718.1
28F2	GR146196	16428070	8.32KV_1P_1/0_AL_TRXLPE	Cable	112.1	220.0000			24.4			5.3			2.4			95.96		4830.2
28F2	GR146197	18175385	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.00	96.28	97.53	3631.0
28F2	GR146198	18175389	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.00	96.28	97.53	3631.1
28F2	GR146200	18180695	8.32KV_1P_1/0_AL_TRXLPE	Cable	83.6	220.0000		29.1			6.4			2.9			95.18			3257.0
28F2	GR146201	18179302	8.32KV_1P_1/0_AL_TRXLPE	Cable	21.2	220.0000		29.1			6.4			2.9			95.18			3278.2
28F2	GR146206	18198177	8.32KV_1P_1/0_AL_TRXLPE	Cable	112.3	220.0000		21.1			4.6			2.1			95.17			3390.4
28F2	GR146211	18198226	8.32KV_1P_1/0_AL_TRXLPE	Cable	73.5	220.0000		10.6			2.3			1.1			95.16			3463.9
28F2	GR146212	18198233	8.32KV_1P_1/0_AL_TRXLPE	Cable	40.8	220.0000		10.6			2.3			1.1			95.16			3504.7
28F2	GR146218	18180701	8.32KV_3P_1/0_AL_TRXLPE	Cable	22.2	220.0000		235.9	0.0	90.4	51.5	0.0	19.3	23.4	0.0	8.8	95.25	96.63	97.48	3139.1
28F2	GR146219	18180702	8.32KV_1P_1/0_AL_TRXLPE	Cable	20.2	220.0000				90.4			19.3			8.8			97.48	3159.4
28F2	GR146224	18197499	8.32KV_1P_1/0_AL_TRXLPE	Cable	92.1	220.0000				74.2			15.8			7.2			97.45	3251.5
28F2	GR146225	18197481	8.32KV_1P_1/0_AL_TRXLPE	Cable	152.0	220.0000				74.1			15.8			7.2			97.42	3403.4

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
28F2	GR146230	18197062	8.32KV_1P_1/0_AL_TRXLPE	Cable	82.6	220.0000				57.9			12.4			5.6			97.40	3486.0
28F2	GR146235	18197023	8.32KV_1P_1/0_AL_TRXLPE	Cable	22.0	220.0000				21.7			4.6			2.1			97.40	3508.0
28F2	GR146240	18197695	8.32KV_1P_1/0_AL_TRXLPE	Cable	111.5	220.0000				0.0			0.0			0.0			97.40	3619.6
28F2	GR146241	18197941	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000				0.0			0.0			0.0			97.40	3619.6
28F2	GR146243	18180703	8.32KV_1P_1/0_AL_TRXLPE	Cable	31.5	220.0000		182.9			40.0			18.2			95.23				3170.7
28F2	GR146248	18180714	8.32KV_1P_1/0_AL_TRXLPE	Cable	145.8	220.0000		143.1			31.3			14.2			95.16				3316.5
28F2	GR146249	18180715	8.32KV_1P_1/0_AL_TRXLPE	Cable	54.2	220.0000		143.0			31.3			14.2			95.14				3370.7
28F2	GR146254	18181420	8.32KV_1P_1/0_AL_TRXLPE	Cable	119.0	220.0000		103.3			22.6			10.3			95.10				3489.7
28F2	GR146259	18181301	8.32KV_1P_1/0_AL_TRXLPE	Cable	11.7	220.0000		63.5			13.9			6.3			95.09				3501.3
28F2	GR146264	18181332	8.32KV_1P_1/0_AL_TRXLPE	Cable	105.6	220.0000		23.8			5.2			2.4			95.08				3606.9
28F2	GR146269	18197975	8.32KV_1P_1/0_AL_TRXLPE	Cable	38.2	220.0000		0.0			0.0			0.0			95.08				3645.1
28F2	GR146270	18197940	8.32KV_1P_1/0_AL_TRXLPE	Cable	0.0	220.0000		0.0			0.0			0.0			95.08				3645.1
28F2	GR146272	18197588	8.32KV_1P_1/0_AL_TRXLPE	Cable	113.9	220.0000		53.0			11.6			5.3			95.23				3253.1
28F2	GR146273	18197589	8.32KV_1P_1/0_AL_TRXLPE	Cable	77.3	220.0000		53.0			11.6			5.3			95.22				3330.4
28F2	GR146278	18198396	8.32KV_1P_1/0_AL_TRXLPE	Cable	180.1	220.0000		35.3			7.7			3.5			95.20				3510.5
28F2	GR146283	18198390	8.32KV_1P_1/0_AL_TRXLPE	Cable	19.5	220.0000		17.7			3.9			1.8			95.20				3529.9
28F2	GR146288	18198271	8.32KV_1P_1/0_AL_TRXLPE	Cable	85.3	220.0000		0.0			0.0			0.0			95.20				3615.3
28F2	GR146290	5508035	8.32KV_1P_1/0_AL_XLPE	Cable	139.2	220.0000				43.3			9.2			4.2			97.60	2978.5
28F2	GR146295	5508034	8.32KV_1P_2/0_AL_XLPE	Cable	103.3	220.0000				21.7			4.6			2.1			97.59	3081.7
28F2	GR146300	5508032	8.32KV_1P_2/0_AL_XLPE	Cable	129.2	220.0000				0.0			0.0			0.0			97.59	3210.9
28F2	GR146346	5509191	8.32KV_1P_2/0_AL_XLPE	Cable	83.9	220.0000				0.0			0.0			0.0			97.65	4181.3
28F2	GR146350	5507507	8.32KV_1P_2/0_AL_XLPE	Cable	105.1	220.0000				21.7			4.6			2.1			97.65	4007.5
28F2	GR146469	5508494	8.32KV_1P_2/0_AL_XLPE	Cable	17.4	220.0000				0.0			0.0			0.0			97.68	4287.6
28F2	GR146475	5508334	8.32KV_1P_2/0_AL_XLPE	Cable	24.6	220.0000				21.7			4.6			2.1			97.67	4369.5
28F2	GR146481	5508333	8.32KV_1P_2/0_AL_XLPE	Cable	62.8	220.0000				10.8			2.3			1.0			97.67	4432.3
28F2	GR146546	5508183	8.32KV_1P_2/0_AL_XLPE	Cable	80.0	220.0000		10.6			2.3			1.0			96.33				3359.2
28F2	GR146576	5508132	8.32KV_3P_2/0_AL_XLPE	Cable	70.2	265.0000		10.6	23.8	21.7	2.3	5.1	4.6	0.9	1.9	1.7	96.36	97.18	97.68	3004.0
28F2	GR146581	5559510	8.32KV_1P_2/0_AL_XLPE	Cable	35.9	220.0000				43.3			9.2			4.2			97.68	2921.1
28F2	GR146586	5508031	8.32KV_1P_2/0_AL_XLPE	Cable	119.3	220.0000				21.7			4.6			2.1			97.67	3040.4
28F2	GR146685	5509090	8.32KV_3P_2/0_AL_XLPE	Cable	107.9	265.0000		31.7	65.5	108.6	6.8	14.0	23.1	2.6	5.3	8.7	96.60	97.34	97.75	2672.5
28F2	GR146686	5509057	8.32KV_1P_2/0_AL_XLPE	Cable	289.4	220.0000			65.5			14.0			6.4			97.28			2961.9
28F2	GR146691	5508667	8.32KV_1P_2/0_AL_XLPE	Cable	139.8	220.0000			53.5			11.5			5.2			97.25			3101.6
28F2	GR146696	5508668	8.32KV_1P_2/0_AL_XLPE	Cable	206.9	220.0000			35.7			7.6			3.5			97.23			3308.5
28F2	GR146701	5508669	8.32KV_1P_2/0_AL_XLPE	Cable	144.6	220.0000			23.8			5.1			2.3			97.22			3453.2
28F2	GR146706	5508670	8.32KV_1P_2/0_AL_XLPE	Cable	106.1	220.0000			11.9			2.5			1.2			97.21			3559.2
28F2	GR146711	5509694	8.32KV_1P_2/0_AL_XLPE	Cable	173.6	220.0000				108.6			23.1			10.5			97.69	2846.1
28F2	GR146716	5509058	8.32KV_1P_2/0_AL_XLPE	Cable	294.1	220.0000				97.7			20.8			9.5			97.59	3140.1
28F2	GR146721	14678055	8.32KV_1P_1/0_AL_TRXLPE	Cable	144.6	220.0000				81.3			17.3			7.9			97.55	3284.7
28F2	GR146726	14677979	8.32KV_1P_1/0_AL_TRXLPE	Cable	77.0	220.0000				65.0			13.9			6.3			97.54	3361.8
28F2	GR146731	14677846	8.32KV_1P_1/0_AL_TRXLPE	Cable	148.2	220.0000				48.8			10.4			4.7			97.51	3510.0
28F2	GR146736	14677781	8.32KV_1P_1/0_AL_TRXLPE	Cable	108.0	220.0000				32.5			6.9			3.2			97.50	3618.0
28F2	GR146741	13127018	8.32KV_1P_1/0_AL_TRXLPE	Cable	100.6	220.0000				16.3			3.5			1.6			97.50	3718.6
28F2	GR146743	5509696	8.32KV_1P_2/0_AL_XLPE	Cable	3.6	220.0000		31.7			6.8			3.1			96.60				2676.1
28F2	GR146748	5509695	8.32KV_1P_2/0_AL_XLPE	Cable	575.8	220.0000		23.8			5.1			2.3			96.55				3251.9
28F2	GR146753	11429761	8.32KV_1P_1/0_AL_XLPE	Cable	200.9	220.0000		15.9			3.4			1.6			96.54				3452.7
28F2	GR146758	11429760	8.32KV_1P_1/0_AL_XLPE	Cable	117.0	220.0000		7.9			1.7			0.8			96.54				3569.7
28F2	GR146764	5508682	8.32KV_3P_2/0_AL_XLPE	Cable	20.5	265.0000		23.2	23.2	23.2	5.0	5.0	4.9	1.9	1.9	1.9	96.73	97.42	97.83	2476.6
28F2	GR146769	5508664	8.32KV_3P_2/0_AL_XLPE	Cable	119.1	265.0000		21.2	47.6	43.4	4.6	10.2	9.2	1.7	3.8	3.5	96.79	97.44	97.84	2526.6
28F2	GR146774	5508665	8.32KV_3P_2/0_AL_XLPE	Cable	66.2	265.0000		10.6	23.8	21.7	2.3	5.1	4.6	0.9	1.9	1.7	96.79	97.44	97.84	2592.8
28F2	GR146780	5509256	8.32KV_3P_2/0_AL_XLPE	Cable	180.3	265.0000		27.4	28.9	38.0	5.9	6.2	8.1	2.2	2.3	3.1	96.94	97.54	97.92	2461.4
28F2	GR146781	5510394	8.32KV_3P_2/0_AL_XLPE	Cable	1.0	265.0000		27.4	28.9	38.0	5.9	6.2	8.1	2.2	2.3	3.1	96.94	97.54	97.92	2462.4
28F2	GR146782	5510350	8.32KV_3P_2/0_AL_XLPE	Cable	1.0	265.0000		27.4	28.9	38.0	5.9	6.2	8.1	2.2	2.3	3.1	96.94	97.54	97.92	2463.4
28F2	GR146783	5556999	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		27.4	28.9	38.0	5.9	6.2	8.1	1.0	1.0	1.3	96.94	97.54	97.92	2463.5
28F2	GR146784	5556998	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		27.4	28.9	38.0	5.9	6.2	8.1	1.0	1.0	1.3	96.94	97.54	97.92	2463.6
28F2	GR146785	5557000	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		27.4	28.9	38.0	5.9	6.2	8.1	1.0	1.0	1.3	96.94	97.54	97.92	2463.7
28F2	GR146786	5562247	BUS8.32KV_3P_600A_CU_AIR	Cable	0.1	600.0000		27.4	28.9	38.0	5.9	6.2	8.1	1.0	1.0	1.3	96.94	97.54	97.92	2463.8
28F2	GR146790	15615575	8.32KV_3P_1000_AL_XLPE	Cable	79.3	455.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.16	97.66	98.04	2203.9
28F2	GR146873	15611770	8.32KV_3P_1/0_AL_XLPE	Cable	9.6	220.0000		55.1	55.1	55.1	11.8	11.7	11.7	5.3	5.3	5.3	97.57	97.89	98.27	1838.8
28F2	GR146879	18102975	8.32KV_3P_1000_AL_XLPE	Cable	33.9	455.0000		5.3	11.9	10.8	1.1	2.5	2.3	0.2	0.5	0.5	99.87	99.87	99.89	143.0
28F2	GR146880	18016044	BUS8.32KV_3P_0A__AIR	Cable	0.1	600.0000		5.3	11.9	10.8	1.1	2.5	2.3	0.2	0.4	0.4	99.87	99.87	99.89	143.1
28F2	GR145642	5511042	8.32KV_3P_Y336_AL	Overhead Line	4.8	530.0000		962.7	1008.7	966.1	200.4	210.0	201.1	37.8	39.6	37.9	99.99	99.99	99.99	6.2
28F2	GR145643	5511041	8.32KV_3P_Y336_AL	Overhead Line	5.9	530.0000		962.7	1008.6	966.0	200.4	210.0	201.1	37.8	39.6	37.9	99.98	99.99	99.99	12.1
28F2	GR145644	5511040	8.32KV_3P_Y336_AL	Overhead Line	26.3	530.0000		962.6	1008.6	966.0	200.4	210.0	201.1	37.8	39.6	37.9	99.95	99.95	99.96	38.4
28F2	GR145645	16356878	8.32KV_3P_Y556_AL	Overhead Line	38.6	530.0000		962.3	1008.2	965.7	200.4	210.0	201.1	37.8	39.6	37.9	99.90	99.90	99.92	77.0
28F2	GR145646	16365060	8.32KV_3P_Y556_AL	Overhead Line	6.2	530.0000		961.8	1007.7	965.3	200.4	210.0	201.1	37.8	39.6	37.9	99.89	99.90	99.91	83.2
28F2	GR145647	16356982	8.32KV_3P_Y556_AL	Overhead Line	5.4	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.89	99.90	99.91	88.6
28F2	GR145648	16365056	8.32KV_3P_Y556_AL	Overhead Line	21.9	530.0000		961.7	1007.7	965.2	200.4	210.0	201.1	37.8	39.6	37.9	99.87	99.87	99.89	105.1
28F2	GR145649	16365049	8.32KV_3P_Y556_AL	Overhead Line	35.7	530.0000		956.2	995.5	954.2	199.3	207.5	198.9	37.6	39.2	37.5	99.82	99.82	99.85	140.8
28F2	GR145650	16365025	8.32KV_3P_Y556_AL	Overhead Line	24.5	530.0000		955.7	995.1	953.8	199.3	207.5	198.9	37.6	39.2	37.5	99.79	99.79	99.82	165.3
28F2	GR145651	16365019	8.32KV_3P_Y556_AL	Overhead Line	32.8	530.0000		955.4	994.8	953.6	199.3	207.5	198.9	37.6	39.2	37.5	99.75	99.75	99.79	198.1
28F2	GR145652	16365014	8.32KV_3P_Y556_AL	Overhead Line	32.6	530.0000		955.0	994.4	953.2	199.3	207.5	198.9	37.6	39.2	37.5	99.71	99.71	99.75	230.7
28F2	GR145653	16365009	8.32KV_3P_Y556_AL	Overhead Line	33.0	530.0000		954.7	993.9	952.9	199.3	207.5	198.9	37.6	39.2	37.5	99.66	99.67	99.72	263.7
28F2	GR145654	16364998	8.32KV_3P_Y556_AL	Overhead Line	31.4	530.0000		954.2	993.5	952.6	199.3	207.5	198.9	37.6	39.2	37.5	99.62	99.63	99.69	295.2
28F2	GR145655	16364992	8.32KV_3P_Y556_AL	Overhead Line	33.2	530.0000		953.9	993.2	952.3	199.3	207.5	198.9	37.6	39.2	37.5	99.58	99.59	99.65	328.3
28F2	GR145656	16364987	8.32KV_3P_Y556_AL	Overhead Line	32.5	530.0000		953.5	992.7	951.9	199.3	207.5	198.9	37.6	39.2	37.5	99.54	99.55	99.62	360.8
28F2	GR145657	16364976	8.32KV_3P_Y556_AL	Overhead Line	33.2	530.0000		953.1	992.4	951.6	199.3	207.5	198.9	37.6	39.2	37.5	99.50	99.51	99.58	394.0

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
28F2	GR145658	16364972	8.32KV_3P_Y556_AL	Overhead Line	32.9	530.0000		952.7	991.9	951.3	199.3	207.5	198.9	37.6	39.2	37.5	99.46	99.47	99.55	426.9
28F2	GR145659	16364968	8.32KV_3P_Y556_AL	Overhead Line	32.7	530.0000		952.3	991.5	950.9	199.3	207.5	198.9	37.6	39.2	37.5	99.42	99.43	99.51	459.7
28F2	GR145660	16364962	8.32KV_3P_Y556_AL	Overhead Line	32.8	530.0000		951.9	991.1	950.6	199.3	207.5	198.9	37.6	39.2	37.5	99.37	99.39	99.48	492.4
28F2	GR145661	16364957	8.32KV_3P_Y556_AL	Overhead Line	32.3	530.0000		951.5	990.7	950.3	199.3	207.5	198.9	37.6	39.2	37.5	99.33	99.35	99.44	524.7
28F2	GR145662	16364953	8.32KV_3P_Y556_AL	Overhead Line	32.2	530.0000		951.1	990.3	950.0	199.3	207.5	198.9	37.6	39.2	37.5	99.29	99.31	99.41	556.9
28F2	GR145663	16364947	8.32KV_3P_Y556_AL	Overhead Line	23.8	530.0000		950.7	989.9	949.6	199.3	207.5	198.9	37.6	39.2	37.5	99.26	99.28	99.39	580.7
28F2	GR145664	15611268	8.32KV_3P_Y556_AL	Overhead Line	2.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.26	99.28	99.39	582.7
28F2	GR145665	15611580	8.32KV_3P_Y556_AL	Overhead Line	67.8	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.26	99.28	99.39	650.4
28F2	GR145666	5511046	8.32KV_3P_Y336_AL	Overhead Line	71.8	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.26	99.28	99.39	654.5
28F2	GR145667	18012182	8.32KV_3P_Y556_AL	Overhead Line	25.5	530.0000		950.4	989.7	949.4	199.3	207.5	198.9	37.6	39.2	37.5	99.23	99.25	99.36	606.2
28F2	GR145668	15611293	8.32KV_3P_Y556_AL	Overhead Line	41.6	530.0000		950.1	989.3	949.1	199.3	207.5	198.9	37.6	39.2	37.5	99.18	99.20	99.31	647.8
28F2	GR145669	15615709	8.32KV_3P_Y556_AL	Overhead Line	8.4	530.0000		949.6	988.8	948.7	199.3	207.5	198.9	37.6	39.2	37.5	99.17	99.19	99.31	656.2
28F2	GR145670	15611296	8.32KV_3P_Y556_AL	Overhead Line	52.0	530.0000		949.5	988.7	948.6	199.3	207.5	198.9	37.6	39.2	37.5	99.10	99.12	99.25	708.2
28F2	GR145671	15611299	8.32KV_3P_Y556_AL	Overhead Line	52.2	530.0000		948.9	988.1	948.1	199.3	207.5	198.9	37.6	39.2	37.5	99.03	99.06	99.20	760.4
28F2	GR145672	15611301	8.32KV_3P_Y556_AL	Overhead Line	55.9	530.0000		948.2	987.5	947.6	199.3	207.5	198.9	37.6	39.2	37.5	98.96	98.99	99.14	816.3
28F2	GR145673	15611311	8.32KV_3P_Y556_AL	Overhead Line	45.1	530.0000		947.6	986.8	947.0	199.3	207.5	198.9	37.6	39.2	37.5	98.91	98.94	99.09	861.4
28F2	GR145674	15611314	8.32KV_3P_Y556_AL	Overhead Line	41.3	530.0000		947.0	986.2	946.6	199.3	207.5	198.9	37.6	39.2	37.5	98.86	98.88	99.05	902.7
28F2	GR145675	15611315	8.32KV_3P_Y556_AL	Overhead Line	38.7	530.0000		946.5	985.7	946.2	199.3	207.5	198.9	37.6	39.2	37.5	98.81	98.84	99.01	941.4
28F2	GR145676	15656929	8.32KV_3P_Y556_AL	Overhead Line	46.7	530.0000		946.1	985.3	945.8	199.3	207.5	198.9	37.6	39.2	37.5	98.75	98.78	98.96	988.1
28F2	GR145677	16438407	8.32KV_3P_Y556_AL	Overhead Line	56.3	530.0000		945.5	984.7	945.3	199.3	207.5	198.9	37.6	39.2	37.5	98.68	98.71	98.90	1044.4
28F2	GR145678	15611320	8.32KV_3P_Y556_AL	Overhead Line	54.1	530.0000		944.8	984.0	944.8	199.3	207.5	198.9	37.6	39.2	37.5	98.61	98.65	98.84	1098.5
28F2	GR145679	15611321	8.32KV_3P_Y556_AL	Overhead Line	51.1	530.0000		944.2	983.3	944.2	199.3	207.5	198.9	37.6	39.2	37.5	98.54	98.58	98.79	1149.7
28F2	GR145680	15611322	8.32KV_3P_Y556_AL	Overhead Line	55.7	530.0000		943.6	982.7	943.7	199.3	207.5	198.9	37.6	39.2	37.5	98.47	98.51	98.73	1205.4
28F2	GR145681	15611323	8.32KV_3P_Y556_AL	Overhead Line	58.5	530.0000		942.9	982.1	943.2	199.3	207.5	198.9	37.6	39.2	37.5	98.40	98.44	98.67	1263.9
28F2	GR145682	15611326	8.32KV_3P_Y556_AL	Overhead Line	43.9	530.0000		942.2	981.3	942.6	199.3	207.5	198.9	37.6	39.2	37.5	98.34	98.39	98.62	1307.7
28F2	GR145683	15611073	8.32KV_1P_Y2/0_AL	Overhead Line	27.3	270.0000				201.4			42.5			15.7			98.61	1335.0
28F2	GR145748	15611332	8.32KV_3P_Y556_AL	Overhead Line	50.2	530.0000		941.7	980.8	740.8	199.3	207.5	156.4	37.6	39.2	29.5	98.27	98.34	98.59	1358.0
28F2	GR145749	15611336	8.32KV_3P_Y556_AL	Overhead Line	50.9	530.0000		940.9	980.3	740.5	199.3	207.5	156.4	37.6	39.2	29.5	98.19	98.29	98.56	1408.9
28F2	GR145750	15611339	8.32KV_3P_Y556_AL	Overhead Line	48.1	530.0000		940.1	979.8	740.2	199.3	207.5	156.4	37.6	39.2	29.5	98.11	98.24	98.52	1457.0
28F2	GR145751	15611342	8.32KV_3P_Y556_AL	Overhead Line	35.1	530.0000		939.4	979.3	740.0	199.3	207.5	156.4	37.6	39.2	29.5	98.05	98.20	98.50	1492.1
28F2	GR145752	15611344	8.32KV_3P_Y556_AL	Overhead Line	49.4	530.0000		938.9	978.9	739.8	199.3	207.5	156.4	37.6	39.2	29.5	97.98	98.15	98.47	1541.5
28F2	GR145753	11234643	8.32KV_1P_Y2/0_AL	Overhead Line	6.7	270.0000				10.8			2.3			0.8			98.47	1548.2
28F2	GR145759	15611347	8.32KV_3P_Y556_AL	Overhead Line	47.8	530.0000		938.1	978.4	728.8	199.3	207.5	154.1	37.6	39.2	29.1	97.90	98.10	98.44	1589.3
28F2	GR145760	15611348	8.32KV_3P_Y556_AL	Overhead Line	51.9	530.0000		937.4	977.9	728.5	199.3	207.5	154.1	37.6	39.2	29.1	97.82	98.05	98.40	1641.2
28F2	GR145761	15611349	8.32KV_3P_Y556_AL	Overhead Line	49.3	530.0000		936.6	977.4	728.3	199.3	207.5	154.1	37.6	39.2	29.1	97.74	98.00	98.37	1690.5
28F2	GR145762	15611654	8.32KV_2P_N1/0_AL	Overhead Line	25.2	230.0000		31.7	119.1		6.8	25.3		2.9	11.0		97.74	97.99		1715.7
28F2	GR145836	18139267	8.32KV_3P_Y556_AL	Overhead Line	37.5	530.0000		904.2	857.8	728.0	192.6	182.2	154.1	36.3	34.4	29.1	97.69	97.97	98.34	1727.9
28F2	GR145837	15611359	8.32KV_3P_Y556_AL	Overhead Line	40.3	530.0000		903.7	857.6	727.8	192.6	182.2	154.1	36.3	34.4	29.1	97.63	97.93	98.31	1768.2
28F2	GR145838	15611360	8.32KV_3P_Y556_AL	Overhead Line	44.5	530.0000		903.1	857.3	727.6	192.6	182.2	154.1	36.3	34.4	29.1	97.57	97.90	98.27	1812.7
28F2	GR145839	15611550	8.32KV_3P_Y556_AL	Overhead Line	15.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.57	97.90	98.27	1828.6
28F2	GR145840	15611542	8.32KV_3P_Y556_AL	Overhead Line	3.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.57	97.90	98.27	1831.7
28F2	GR145841	15611543	8.32KV_3P_Y556_AL	Overhead Line	28.5	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.57	97.90	98.27	1857.1
28F2	GR145842	15611544	8.32KV_3P_Y556_AL	Overhead Line	5.2	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.57	97.90	98.27	1862.3
28F2	GR145844	18147672	8.32KV_3P_Y556_AL	Overhead Line	38.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.57	97.90	98.27	1896.0
28F2	GR145845	15615521	8.32KV_3P_Y556_AL	Overhead Line	61.4	530.0000		847.9	802.6	672.9	180.9	170.7	142.5	34.1	32.2	26.9	97.49	97.85	98.23	1874.0
28F2	GR145846	15615519	8.32KV_3P_Y556_AL	Overhead Line	60.0	530.0000		847.2	802.2	672.6	180.9	170.7	142.5	34.1	32.2	26.9	97.41	97.80	98.18	1934.1
28F2	GR145847	15615517	8.32KV_3P_Y556_AL	Overhead Line	40.0	530.0000		846.5	801.8	672.3	180.9	170.7	142.5	34.1	32.2	26.9	97.35	97.77	98.15	1974.1
28F2	GR145848	15615514	8.32KV_3P_Y556_AL	Overhead Line	39.3	530.0000		846.1	801.6	672.1	180.9	170.7	142.5	34.1	32.2	26.9	97.30	97.74	98.12	2013.4
28F2	GR145849	15615512	8.32KV_3P_Y556_AL	Overhead Line	47.5	530.0000		845.6	801.3	671.9	180.9	170.7	142.5	34.1	32.2	26.9	97.24	97.71	98.09	2060.9
28F2	GR145850	15615510	8.32KV_3P_Y556_AL	Overhead Line	18.8	530.0000		845.1	801.0	671.6	180.9	170.7	142.5	34.1	32.2	26.9	97.21	97.69	98.08	2079.6
28F2	GR145851	15615508	8.32KV_3P_Y556_AL	Overhead Line	24.4	530.0000		844.8	800.9	671.5	180.9	170.7	142.5	34.1	32.2	26.9	97.18	97.68	98.06	2104.0
28F2	GR145852	15615507	8.32KV_3P_Y556_AL	Overhead Line	17.3	530.0000		844.6	800.8	671.4	180.9	170.7	142.5	34.1	32.2	26.9	97.16	97.66	98.04	2121.4
28F2	GR145853	15615505	8.32KV_3P_Y556_AL	Overhead Line	29.6	530.0000		844.4	800.7	671.3	180.9	170.7	142.5	34.1	32.2	26.9	97.12	97.64	98.02	2150.9
28F2	GR145854	15615503	8.32KV_3P_Y556_AL	Overhead Line	29.2	530.0000		844.0	800.5	671.2	180.9	170.7	142.5	34.1	32.2	26.9	97.08	97.62	98.00	2180.1
28F2	GR145855	15615501	8.32KV_3P_Y556_AL	Overhead Line	25.0	530.0000		843.7	800.3	671.0	180.9	170.7	142.5	34.1	32.2	26.9	97.05	97.60	97.98	2205.1
28F2	GR145856	15615499	8.32KV_3P_Y556_AL	Overhead Line	41.7	530.0000		843.4	800.1	670.9	180.9	170.7	142.5	34.1	32.2	26.9	96.99	97.57	97.95	2246.8
28F2	GR145857	15615497	8.32KV_3P_Y556_AL	Overhead Line	28.0	530.0000		842.9	799.9	670.7	180.9	170.7	142.5	34.1	32.2	26.9	96.95	97.55	97.93	2274.8
28F2	GR145858	15615495	8.32KV_3P_Y556_AL	Overhead Line	34.2	530.0000		815.6	771.5	632.5	175.1	164.7	134.5	33.0	31.1	25.4	96.91	97.52	97.91	2309.0
28F2	GR145859	16478388	8.32KV_3P_Y556_AL	Overhead Line	53.0	530.0000		815.2	771.3	632.4	175.1	164.7	134.5	33.0	31.1	25.4	96.84	97.48	97.87	2362.0
28F2	GR145860	15615492	8.32KV_3P_Y556_AL	Overhead Line	8.0	530.0000		814.6	771.0	632.2	175.1	164.7	134.5	33.0	31.1	25.4	96.83	97.48	97.87	2370.0
28F2	GR145861	15615473	8.32KV_3P_Y556_AL	Overhead Line	35.2	530.0000		81.3	17.8	75.9	17.5	3.8	16.1	3.3	0.7	3.0	96.83	97.48	97.86	2405.2
28F2	GR145862	15615522	8.32KV_3P_Y556_AL	Overhead Line	43.3	530.0000		81.3	17.8	75.9	17.5	3.8	16.1	3.3	0.7	3.0	96.83	97.48	97.85	2448.4
28F2	GR145863	15615523	8.32KV_3P_Y556_AL	Overhead Line	40.6	530.0000		81.3	17.8	75.9	17.5	3.8	16.1	3.3	0.7	3.0	96.82	97.48	97.85	2489.1
28F2	GR145864	15615524	8.32KV_3P_Y556_AL	Overhead Line	59.3	530.0000		78.6	11.9	70.5	16.9	2.5	15.0	3.2	0.5	2.8	96.82	97.48	97.83	2548.4
28F2	GR145865	15615525	8.32KV_3P_Y556_AL	Overhead Line	60.8	530.0000		73.4	0.0	59.6	15.8	0.0	12.7	3.0	0.0	2.4	96.82	97.49	97.82	2609.2
28F2	GR145866	11473089	DEFAULT	Overhead Line	8.9	1000.0000		73.4	0.0	59.6	15.8	0.0	12.7	1.6	0.0	1.3	96.82	97.49	97.82	2618.1
28F2	GR145954	16466031	8.32KV_3P_Y556_AL	Overhead Line	1.3	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.82	97.49	97.82	2610.5
28F2	GR145959	15615490	8.32KV_3P_Y556_AL	Overhead Line	31.9	530.0000		733.3	753.2	556.2	157.6	160.9	118.3	29.7	30.4	22.3	96.79	97.45	97.85	2401.8
28F2	GR145960	15615487	8.32KV_3P_Y556_AL	Overhead Line	49.5	530.0000		711.8	705.4	512.8	153.1	150.7	109.1	28.9	28.4	20.6	96.73	97.42	97.83	2451.3
28F2	GR145961	15615485	8.32KV_3P_Y556_AL	Overhead Line	54.1	530.0000		688.4	682.2	489.7	148.1	145.8	104.2	28.0	27.5	19.7	96.67	97.39	97.80	2505.5
28F2	GR145962	15615483	8.32KV_3P_Y556_AL	Overhead Line	54.0	530.0000		687.9	682.0	489.6	148.1	145.8	104.2	28.0	27.5	19.7	96.60	97.35	97.78	2559.5
28F2	GR145963	16355640	8.32KV_3P_Y556_AL	Overhead Line	61.1	530.0000		655.7	616.3	380.9	141.3	131.8	81.1	26.7	24.9	15.3	96.53	97.33	97.76	2620.6
28F2	GR145964	15618748	8.32KV_3P_Y556_AL	Overhead Line	48.8	530.0000		655.2	616.1	380.8	141.3	131.8	81.1	26.7	24.9	15.3	96.47	97.30	97.75	2669.5
28F2	GR145965	16435122	8.32KV_3P_Y556_AACSR	Overhead Line	6.9	530.0000		654.8	616.0	380.8	141.3	131.8	81.1	26.7	24.9	15.3	96.46	97.30	97.74	2676.4
28F2	GR145966	16466004	DEFAULT	Overhead Line	14.0	1000.0000		654.8	616.0	380.7	141.3	131.8	81.1	14.1	13.2	8.1	96.41	97.27	97.72	2690.4
28F2	GR145967	16424056	DEFAULT	Overhead Line	20.9	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.41	97.27	97.72	2711.3

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
28F2	GR145968	16424098	DEFAULT	Overhead Line	9.7	1000.0000		486.6	409.3	193.8	105.1	87.6	41.3	10.5	8.8	4.1	96.39	97.25	97.72	2700.1
28F2	GR145969	16478037	DEFAULT	Overhead Line	26.8	1000.0000		486.4	409.3	193.7	105.1	87.6	41.3	10.5	8.8	4.1	96.31	97.21	97.70	2726.9
28F2	GR145970	16478039	DEFAULT	Overhead Line	51.5	1000.0000		486.1	409.1	193.7	105.1	87.6	41.3	10.5	8.8	4.1	96.18	97.13	97.66	2778.4
28F2	GR145971	16477845	DEFAULT	Overhead Line	55.3	1000.0000		485.4	408.8	193.6	105.1	87.6	41.3	10.5	8.8	4.1	96.03	97.04	97.62	2833.7
28F2	GR145972	16477814	DEFAULT	Overhead Line	55.1	1000.0000		484.7	408.4	150.2	105.1	87.6	32.0	10.5	8.8	3.2	95.88	96.96	97.59	2888.8
28F2	GR145973	16478043	DEFAULT	Overhead Line	44.4	1000.0000		483.9	408.0	150.2	105.1	87.6	32.0	10.5	8.8	3.2	95.76	96.89	97.57	2933.2
28F2	GR145974	16478045	DEFAULT	Overhead Line	49.0	1000.0000		483.3	407.8	150.2	105.1	87.6	32.0	10.5	8.8	3.2	95.63	96.82	97.55	2982.2
28F2	GR145975	16478047	DEFAULT	Overhead Line	47.0	1000.0000		482.6	407.4	150.1	105.1	87.6	32.0	10.5	8.8	3.2	95.50	96.75	97.53	3029.2
28F2	GR145976	16478049	DEFAULT	Overhead Line	44.0	1000.0000		482.0	407.1	150.1	105.1	87.6	32.0	10.5	8.8	3.2	95.38	96.68	97.51	3073.2
28F2	GR145977	16478051	DEFAULT	Overhead Line	39.0	1000.0000		481.4	406.9	150.1	105.1	87.6	32.0	10.5	8.8	3.2	95.27	96.62	97.49	3112.2
28F2	GR145978	16478053	DEFAULT	Overhead Line	56.4	1000.0000		244.9	406.6	59.6	53.5	87.6	12.7	5.4	8.8	1.3	95.19	96.52	97.50	3168.6
28F2	GR145979	16478055	DEFAULT	Overhead Line	69.4	1000.0000		215.6	406.2	59.6	47.2	87.6	12.7	4.7	8.8	1.3	95.09	96.38	97.51	3238.0
28F2	GR145980	16424226	8.32KV_3P_N1/0_AL	Overhead Line	4.2	230.0000		74.1	239.0	59.6	16.2	51.6	12.7	7.1	22.4	5.5	95.09	96.38	97.51	3242.2
28F2	GR146082	16477903	DEFAULT	Overhead Line	52.4	1000.0000		141.4	166.7	0.1	30.9	36.0	0.0	3.1	3.6	0.0	95.04	96.35	97.52	3290.4
28F2	GR146083	16478058	DEFAULT	Overhead Line	44.9	1000.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3335.3
28F2	GR146084	16478060	DEFAULT	Overhead Line	24.1	1000.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3359.4
28F2	GR146085	16478062	DEFAULT	Overhead Line	23.3	1000.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3382.7
28F2	GR146086	16477976	DEFAULT	Overhead Line	43.6	1000.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3426.3
28F2	GR146087	16478065	DEFAULT	Overhead Line	50.0	1000.0000		0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3476.3
28F2	GR146088	16478067	DEFAULT	Overhead Line	46.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3522.3
28F2	GR146089	16478069	DEFAULT	Overhead Line	44.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3566.3
28F2	GR146090	16478071	DEFAULT	Overhead Line	23.2	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3589.5
28F2	GR146091	16424124	DEFAULT	Overhead Line	46.8	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3636.3
28F2	GR146092	16478074	DEFAULT	Overhead Line	48.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3684.3
28F2	GR146093	16478076	DEFAULT	Overhead Line	43.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3727.3
28F2	GR146094	16478078	DEFAULT	Overhead Line	47.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3774.3
28F2	GR146095	16478081	DEFAULT	Overhead Line	49.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3823.3
28F2	GR146096	16478083	DEFAULT	Overhead Line	46.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3869.3
28F2	GR146097	16478085	DEFAULT	Overhead Line	35.2	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3904.5
28F2	GR146098	16424127	DEFAULT	Overhead Line	45.6	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3950.1
28F2	GR146099	16478088	DEFAULT	Overhead Line	47.0	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.04	96.35	97.52	3997.1
28F2	GR146100	18175195	8.32KV_3P_N1/0_AL	Overhead Line	9.1	230.0000		141.3	166.7	0.0	31.0	36.0	0.0	13.5	15.7	0.0	95.04	96.35	97.52	3299.4
28F2	GR146199	18180696	8.32KV_1P_N1/0_AL	Overhead Line	4.7	230.0000		29.1			6.4			2.8			95.19			3173.4
28F2	GR146217	18179290	8.32KV_3P_N1/0_AL	Overhead Line	4.8	230.0000		235.9	0.0	90.4	51.5	0.0	19.3	22.4	0.0	8.4	95.27	96.62	97.49	3116.9
28F2	GR146289	5508029	8.32KV_1P_Y1/0_AL	Overhead Line	5.6	230.0000				43.3			9.2			4.0			97.62	2839.3
28F2	GR146301	16435126	DEFAULT	Overhead Line	7.1	1000.0000		167.9	206.4	186.9	36.3	44.2	39.8	3.6	4.4	4.0	96.41	97.26	97.72	2697.5
28F2	GR146302	9031242	8.32KV_3P_Y336_AL	Overhead Line	27.1	530.0000		167.9	206.4	186.9	36.3	44.2	39.8	6.8	8.3	7.5	96.40	97.25	97.71	2724.6
28F2	GR146303	16490143	8.32KV_3P_Y556_AL	Overhead Line	43.8	530.0000		167.9	206.4	186.9	36.3	44.2	39.8	6.8	8.3	7.5	96.39	97.24	97.71	2768.4
28F2	GR146304	17237442	8.32KV_3P_N556_AL	Overhead Line	44.4	530.0000		167.9	206.4	186.9	36.3	44.2	39.8	6.8	8.3	7.5	96.38	97.23	97.70	2812.8
28F2	GR146305	16477575	8.32KV_3P_N556_AL	Overhead Line	66.6	530.0000		167.8	206.3	186.9	36.3	44.2	39.8	6.8	8.3	7.5	96.37	97.21	97.69	2879.4
28F2	GR146306	19023998	8.32KV_3P_N556_AL	Overhead Line	50.1	530.0000		67.3	206.3	143.5	14.5	44.2	30.6	2.7	8.3	5.8	96.36	97.19	97.69	2929.5
28F2	GR146307	19024000	8.32KV_3P_N556_AL	Overhead Line	51.1	530.0000		56.8	182.4	121.8	12.3	39.1	26.0	2.3	7.4	4.9	96.36	97.17	97.69	2980.6
28F2	GR146308	16504785	8.32KV_3P_N556_AL	Overhead Line	62.4	530.0000		56.8	182.4	121.8	12.3	39.1	26.0	2.3	7.4	4.9	96.35	97.14	97.69	3043.0
28F2	GR146309	16504767	8.32KV_3P_N556_AL	Overhead Line	57.7	530.0000		56.7	182.4	121.8	12.3	39.1	26.0	2.3	7.4	4.9	96.35	97.12	97.69	3100.6
28F2	GR146310	19024001	8.32KV_3P_N556_AL	Overhead Line	49.1	530.0000		19.8	182.3	121.8	4.3	39.1	26.0	0.8	7.4	4.9	96.34	97.10	97.69	3149.7
28F2	GR146311	16477597	8.32KV_3P_N556_AL	Overhead Line	43.6	530.0000		19.8	182.3	121.8	4.3	39.1	26.0	0.8	7.4	4.9	96.34	97.08	97.69	3193.3
28F2	GR146312	19024002	8.32KV_3P_N556_AL	Overhead Line	7.3	530.0000		19.8	182.3	121.8	4.3	39.1	26.0	0.8	7.4	4.9	96.34	97.08	97.69	3200.6
28F2	GR146313	19024107	8.32KV_3P_N556_AL	Overhead Line	52.4	530.0000		19.8	182.3	121.8	4.3	39.1	26.0	0.8	7.4	4.9	96.34	97.06	97.70	3252.9
28F2	GR146314	19024003	8.32KV_3P_N556_AL	Overhead Line	58.9	530.0000		19.8	182.2	121.8	4.3	39.1	26.0	0.8	7.4	4.9	96.34	97.03	97.70	3311.9
28F2	GR146315	19024004	8.32KV_3P_N556_AL	Overhead Line	50.2	530.0000		19.8	182.2	121.8	4.3	39.1	26.0	0.8	7.4	4.9	96.34	97.01	97.70	3362.1
28F2	GR146316	19024005	8.32KV_3P_N556_AL	Overhead Line	52.9	530.0000		19.8	182.1	121.8	4.3	39.1	26.0	0.8	7.4	4.9	96.34	96.99	97.70	3415.0
28F2	GR146317	19024010	8.32KV_3P_N556_AL	Overhead Line	40.7	530.0000		19.8	182.1	121.8	4.3	39.1	26.0	0.8	7.4	4.9	96.34	96.97	97.71	3455.7
28F2	GR146318	19024011	8.32KV_3P_N556_AL	Overhead Line	54.6	530.0000		19.8	182.1	121.9	4.3	39.1	26.0	0.8	7.4	4.9	96.34	96.95	97.71	3510.2
28F2	GR146319	19024013	8.32KV_3P_N556_AL	Overhead Line	21.3	530.0000		19.8	83.3	121.9	4.3	17.9	26.0	0.8	3.4	4.9	96.34	96.95	97.71	3531.5
28F2	GR146320	19024015	8.32KV_3P_N556_AL	Overhead Line	57.3	530.0000		19.8	83.3	121.9	4.3	17.9	26.0	0.8	3.4	4.9	96.35	96.93	97.70	3588.8
28F2	GR146321	16477602	8.32KV_3P_N556_AL	Overhead Line	48.4	530.0000		19.8	83.3	121.8	4.3	17.9	26.0	0.8	3.4	4.9	96.35	96.92	97.70	3637.2
28F2	GR146322	19024016	8.32KV_3P_N556_AL	Overhead Line	43.5	530.0000		19.8	83.3	121.8	4.3	17.9	26.0	0.8	3.4	4.9	96.35	96.91	97.69	3680.7
28F2	GR146323	19024017	8.32KV_3P_N556_AL	Overhead Line	35.8	530.0000		19.8	83.3	121.8	4.3	17.9	26.0	0.8	3.4	4.9	96.36	96.90	97.69	3716.5
28F2	GR146324	19024018	8.32KV_3P_N556_AL	Overhead Line	6.7	530.0000		19.8	83.3	121.8	4.3	17.9	26.0	0.8	3.4	4.9	96.36	96.90	97.69	3723.1
28F2	GR146325	18122032	8.32KV_1P_Y556_AL	Overhead Line	8.4	530.0000				67.7			14.4			2.7			97.68	3731.6
28F2	GR146326	18122004	8.32KV_1P_Y556_AL	Overhead Line	33.7	530.0000				67.7			14.4			2.7			97.68	3765.2
28F2	GR146327	5507493	8.32KV_1P_Y1/0_AL	Overhead Line	46.6	230.0000				67.7			14.4			6.3			97.67	3811.8
28F2	GR146328	5507501	8.32KV_1P_Y1/0_AL	Overhead Line	34.6	230.0000				51.5			11.0			4.8			97.67	3846.4
28F2	GR146329	5507502	8.32KV_1P_Y1/0_AL	Overhead Line	38.7	230.0000				51.5			11.0			4.8			97.66	3885.2
28F2	GR146330	5507503	8.32KV_1P_Y1/0_AL	Overhead Line	5.6	230.0000				29.8			6.3			2.8			97.66	3890.8
28F2	GR146331	11296942	8.32KV_1P_Y1/0_AL	Overhead Line	33.8	230.0000				29.8			6.3			2.8			97.66	3924.6
28F2	GR146332	5508718	8.32KV_1P_Y1/0_AL	Overhead Line	44.2	230.0000				29.8			6.3			2.8			97.65	3968.8
28F2	GR146333	5508719	8.32KV_1P_Y1/0_AL	Overhead Line	46.1	230.0000				19.0			4.0			1.8			97.65	4014.9
28F2	GR146334	5508720	8.32KV_1P_Y1/0_AL	Overhead Line	38.2	230.0000				19.0			4.0			1.8			97.65	4053.1
28F2	GR146335	5508721	8.32KV_1P_Y1/0_AL	Overhead Line	22.3	230.0000				19.0			4.0			1.8			97.65	4075.4
28F2	GR146336	5508722	8.32KV_1P_Y1/0_AL	Overhead Line	24.2	230.0000				19.0			4.0			1.8			97.65	4099.5
28F2	GR146337	5508723	8.32KV_1P_Y1/0_AL	Overhead Line	21.3	230.0000				8.1			1.7			0.8			97.65	4120.9
28F2	GR146338	5508724	8.32KV_1P_Y1/0_AL	Overhead Line	21.4	230.0000				8.1			1.7			0.8			97.65	4142.3
28F2	GR146339	5508725	8.32KV_1P_Y1/0_AL	Overhead Line	23.2	230.0000				0.0			0.0			0.0			97.65	4165.5
28F2	GR146340	5508726	8.32KV_1P_Y1/0_AL	Overhead Line	20.2	230.0000				0.0			0.0			0.0			97.65	4185.7
28F2	GR146345	5508727	8.32KV_1P_Y1/0_AL	Overhead Line	22.1	230.0000				0.0			0.0			0.0			97.65	4097.4

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
28F2	GR146349	5507504	8.32KV_1P_Y1/0_AL	Overhead Line	17.2	230.0000				21.7			4.6			2.0			97.66	3902.4
28F2	GR146357	18122047	8.32KV_3P_N556_AL	Overhead Line	39.2	530.0000		19.8	0.0	0.0	4.3	0.0	0.0	0.8	0.0	0.0	96.35	96.90	97.69	3762.4
28F2	GR146358	19024019	8.32KV_3P_N556_AL	Overhead Line	57.0	530.0000		19.8	0.0	0.0	4.3	0.0	0.0	0.8	0.0	0.0	96.35	96.90	97.68	3819.4
28F2	GR146359	19024258	8.32KV_3P_N556_AL	Overhead Line	27.1	530.0000		19.8	0.0	0.0	4.3	0.0	0.0	0.8	0.0	0.0	96.35	96.90	97.68	3846.4
28F2	GR146360	19024020	8.32KV_3P_N556_AL	Overhead Line	42.4	530.0000		19.8	0.0	0.0	4.3	0.0	0.0	0.8	0.0	0.0	96.35	96.91	97.68	3888.9
28F2	GR146361	16477605	8.32KV_3P_N556_AL	Overhead Line	42.2	530.0000		19.8	0.0	0.0	4.3	0.0	0.0	0.8	0.0	0.0	96.35	96.91	97.68	3931.0
28F2	GR146362	19024021	8.32KV_3P_N556_AL	Overhead Line	59.0	530.0000		19.8	0.0	0.0	4.3	0.0	0.0	0.8	0.0	0.0	96.35	96.91	97.68	3990.0
28F2	GR146363	16477607	8.32KV_3P_N556_AL	Overhead Line	28.5	530.0000		19.8	0.0	0.0	4.3	0.0	0.0	0.8	0.0	0.0	96.34	96.91	97.68	4018.5
28F2	GR146364	19024023	8.32KV_3P_N556_AL	Overhead Line	34.3	530.0000		19.8	0.0	0.0	4.3	0.0	0.0	0.8	0.0	0.0	96.34	96.91	97.68	4052.8
28F2	GR146365	11297418	8.32KV_1P_Y1/0_AL	Overhead Line	25.8	230.0000		17.2			3.7			1.6			96.34			4078.6
28F2	GR146366	5509945	8.32KV_1P_Y1/0_AL	Overhead Line	28.0	230.0000		17.2			3.7			1.6			96.34			4106.6
28F2	GR146367	5509946	8.32KV_1P_Y1/0_AL	Overhead Line	40.7	230.0000		17.2			3.7			1.6			96.34			4147.3
28F2	GR146368	5509947	8.32KV_1P_Y1/0_AL	Overhead Line	32.8	230.0000		9.2			2.0			0.9			96.34			4180.0
28F2	GR146369	5509948	8.32KV_1P_Y1/0_AL	Overhead Line	32.8	230.0000		9.2			2.0			0.9			96.34			4212.9
28F2	GR146370	5509949	8.32KV_1P_Y1/0_AL	Overhead Line	21.1	230.0000		9.2			2.0			0.9			96.34			4234.0
28F2	GR146371	5509950	8.32KV_1P_Y1/0_AL	Overhead Line	23.0	230.0000		9.2			2.0			0.9			96.34			4256.9
28F2	GR146372	5509951	8.32KV_1P_Y1/0_AL	Overhead Line	41.1	230.0000		9.2			2.0			0.9			96.33			4298.0
28F2	GR146373	5509952	8.32KV_1P_Y1/0_AL	Overhead Line	21.7	230.0000		9.3			2.0			0.9			96.33			4319.7
28F2	GR146374	5509953	8.32KV_1P_Y1/0_AL	Overhead Line	43.1	230.0000		5.3			1.1			0.5			96.33			4362.8
28F2	GR146381	5509943	8.32KV_1P_Y1/0_AL	Overhead Line	84.3	230.0000		2.6			0.6			0.2			96.34			4137.1
28F2	GR146384	19019269	8.32KV_3P_Y556_AL	Overhead Line	8.1	530.0000		0.1	83.3	54.1	0.0	17.9	11.5	0.0	3.4	2.2	96.36	96.90	97.69	3731.2
28F2	GR146385	18122093	8.32KV_3P_Y556_AL	Overhead Line	37.2	530.0000		0.1	83.3	54.1	0.0	17.9	11.5	0.0	3.4	2.2	96.36	96.89	97.69	3768.5
28F2	GR146386	18122095	8.32KV_3P_Y556_AL	Overhead Line	51.4	530.0000		0.1	83.3	43.3	0.0	17.9	9.2	0.0	3.4	1.7	96.36	96.88	97.69	3819.9
28F2	GR146387	18122097	8.32KV_3P_Y556_AL	Overhead Line	49.8	530.0000		0.1	83.3	43.3	0.0	17.9	9.2	0.0	3.4	1.7	96.36	96.87	97.69	3869.7
28F2	GR146388	19019268	8.32KV_1P_Y1/0_AL	Overhead Line	42.7	230.0000			11.9			2.6			1.1			96.87			3912.4
28F2	GR146389	5510205	8.32KV_1P_Y1/0_AL	Overhead Line	42.1	230.0000			11.9			2.6			1.1			96.87			3954.5
28F2	GR146390	5508084	8.32KV_1P_Y1/0_AL	Overhead Line	45.3	230.0000			11.9			2.6			1.1			96.87			3999.7
28F2	GR146391	5510206	8.32KV_1P_Y1/0_AL	Overhead Line	33.9	230.0000			0.0			0.0			0.0			96.87			4033.6
28F2	GR146394	19021648	8.32KV_3P_Y556_AL	Overhead Line	1.3	530.0000		0.1	71.4	43.3	0.0	15.3	9.2	0.0	2.9	1.7	96.36	96.87	97.69	3871.0
28F2	GR146395	18122100	8.32KV_3P_Y556_AL	Overhead Line	66.1	530.0000		0.1	71.4	43.3	0.0	15.3	9.2	0.0	2.9	1.7	96.36	96.86	97.70	3937.1
28F2	GR146396	18122102	8.32KV_3P_Y556_AL	Overhead Line	65.5	530.0000		0.1	71.4	43.3	0.0	15.3	9.2	0.0	2.9	1.7	96.36	96.85	97.70	4002.7
28F2	GR146397	18122104	8.32KV_3P_Y556_AL	Overhead Line	63.6	530.0000		0.1	71.4	43.3	0.0	15.3	9.2	0.0	2.9	1.7	96.36	96.84	97.70	4066.3
28F2	GR146398	18122106	8.32KV_3P_Y556_AL	Overhead Line	48.1	530.0000		0.1	71.3	0.1	0.0	15.3	0.0	0.0	2.9	0.0	96.35	96.83	97.70	4114.4
28F2	GR146399	18122108	8.32KV_3P_Y556_AL	Overhead Line	51.9	530.0000		0.1	71.3	0.1	0.0	15.3	0.0	0.0	2.9	0.0	96.35	96.82	97.71	4166.3
28F2	GR146400	18122110	8.32KV_3P_Y556_AL	Overhead Line	2.9	530.0000		0.1	71.3	0.1	0.0	15.3	0.0	0.0	2.9	0.0	96.35	96.82	97.71	4169.2
28F2	GR146401	19019290	8.32KV_3P_Y556_AL	Overhead Line	33.2	530.0000		0.1	71.3	0.1	0.0	15.3	0.0	0.0	2.9	0.0	96.35	96.82	97.72	4202.4
28F2	GR146402	19056007	8.32KV_3P_Y556_AL	Overhead Line	34.7	530.0000		0.1	71.3	0.1	0.0	15.3	0.0	0.0	2.9	0.0	96.35	96.81	97.72	4237.1
28F2	GR146403	18122113	8.32KV_3P_Y556_AL	Overhead Line	46.5	530.0000		0.1	71.3	0.1	0.0	15.3	0.0	0.0	2.9	0.0	96.34	96.81	97.72	4283.6
28F2	GR146404	15515058	8.32KV_3P_Y336_AL	Overhead Line	20.7	530.0000		0.1	71.3	0.1	0.0	15.3	0.0	0.0	2.9	0.0	96.34	96.81	97.73	4304.4
28F2	GR146405	15510359	8.32KV_3P_N556_AL	Overhead Line	35.9	530.0000		0.0	71.3	0.0	0.0	15.3	0.0	0.0	2.9	0.0	96.34	96.80	97.73	4340.2
28F2	GR146406	15515034	8.32KV_1P_Y1/0_AL	Overhead Line	3.6	230.0000			71.3			15.3			6.7			96.80			4343.9
28F2	GR146407	5512753	8.32KV_1P_Y1/0_AL	Overhead Line	42.7	230.0000			71.3			15.3			6.7			96.79			4386.6
28F2	GR146408	5512754	8.32KV_1P_Y1/0_AL	Overhead Line	34.4	230.0000			65.4			14.1			6.1			96.79			4420.9
28F2	GR146409	5512755	8.32KV_1P_Y1/0_AL	Overhead Line	45.6	230.0000			65.4			14.1			6.1			96.78			4466.5
28F2	GR146410	5512756	8.32KV_1P_Y1/0_AL	Overhead Line	36.2	230.0000			65.4			14.1			6.1			96.77			4502.7
28F2	GR146411	5512757	8.32KV_1P_Y1/0_AL	Overhead Line	31.0	230.0000			65.4			14.1			6.1			96.77			4533.7
28F2	GR146412	5510021	8.32KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000			47.5			10.2			4.4			96.77			4536.5
28F2	GR146413	5512758	8.32KV_1P_Y1/0_AL	Overhead Line	4.1	230.0000			11.9			2.6			1.1			96.76			4540.6
28F2	GR146414	11296688	8.32KV_1P_Y1/0_AL	Overhead Line	17.2	230.0000			11.9			2.6			1.1			96.76			4557.8
28F2	GR146415	5512759	8.32KV_1P_Y1/0_AL	Overhead Line	30.9	230.0000			11.9			2.6			1.1			96.76			4588.7
28F2	GR146416	5512760	8.32KV_1P_Y1/0_AL	Overhead Line	48.3	230.0000			11.9			2.6			1.1			96.76			4637.0
28F2	GR146419	5512761	8.32KV_1P_Y1/0_AL	Overhead Line	37.2	230.0000			35.7			7.7			3.3			96.76			4573.7
28F2	GR146420	5512763	8.32KV_1P_Y1/0_AL	Overhead Line	45.4	230.0000			35.7			7.7			3.3			96.76			4619.1
28F2	GR146421	5512764	8.32KV_1P_Y1/0_AL	Overhead Line	34.4	230.0000			23.8			5.1			2.2			96.75			4653.5
28F2	GR146422	5512765	8.32KV_1P_Y1/0_AL	Overhead Line	31.3	230.0000			17.8			3.8			1.7			96.75			4684.8
28F2	GR146423	11296520	8.32KV_1P_N1/0_AL	Overhead Line	32.4	230.0000			0.0			0.0			0.0			96.75			4717.1
28F2	GR146428	5512766	8.32KV_1P_Y1/0_AL	Overhead Line	3.8	230.0000			11.9			2.6			1.1			96.76			4622.9
28F2	GR146429	11296673	8.32KV_1P_Y1/0_AL	Overhead Line	40.2	230.0000			11.9			2.6			1.1			96.76			4663.0
28F2	GR146430	5512767	8.32KV_1P_Y1/0_AL	Overhead Line	31.8	230.0000			11.9			2.6			1.1			96.75			4694.8
28F2	GR146431	5512769	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000			11.9			2.6			1.1			96.75			4723.3
28F2	GR146432	5512770	8.32KV_1P_Y1/0_AL	Overhead Line	30.6	230.0000			11.9			2.6			1.1			96.75			4753.9
28F2	GR146433	5512771	8.32KV_1P_Y1/0_AL	Overhead Line	25.0	230.0000			11.9			2.6			1.1			96.75			4778.9
28F2	GR146434	5512772	8.32KV_1P_Y1/0_AL	Overhead Line	30.0	230.0000			11.9			2.6			1.1			96.75			4808.9
28F2	GR146435	5512773	8.32KV_1P_Y1/0_AL	Overhead Line	38.2	230.0000			0.0			0.0			0.0			96.75			4847.1
28F2	GR146436	5512774	8.32KV_1P_Y1/0_AL	Overhead Line	27.1	230.0000			0.0			0.0			0.0			96.75			4874.3
28F2	GR146444	15510361	8.32KV_3P_Y556_AL	Overhead Line	11.5	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4315.9
28F2	GR146445	15660767	8.32KV_3P_Y556_AL	Overhead Line	27.7	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4343.6
28F2	GR146446	15510340	DEFAULT	Overhead Line	13.6	1000.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4357.1
28F2	GR146447	15522353	8.32KV_3P_Y556_AL	Overhead Line	7.6	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4351.1
28F2	GR146448	15595347	8.32KV_3P_Y556_AL	Overhead Line	43.4	530.0000		0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4347.8
28F2	GR146449	16443909	8.32KV_3P_Y556_AL	Overhead Line	26.7	530.0000		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4374.4
28F2	GR146450	15529371	8.32KV_3P_Y556_AL	Overhead Line	41.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4416.4
28F2	GR146451	15595338	8.32KV_3P_Y556_AL	Overhead Line	40.7	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4457.0
28F2	GR146452	16443906	8.32KV_3P_Y556_AL	Overhead Line	46.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4503.9
28F2	GR146453	15529374	8.32KV_3P_Y556_AL	Overhead Line	41.6	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4545.5
28F2	GR146454	15529376	8.32KV_3P_Y556_AL	Overhead Line	61.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4606.7

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
28F2	GR146455	15529377	8.32KV_3P_Y556_AL	Overhead Line	43.3	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4649.9
28F2	GR146456	15526596	8.32KV_3P_Y556_AL	Overhead Line	36.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4686.9
28F2	GR146457	15529382	8.32KV_3P_Y556_AL	Overhead Line	49.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4736.7
28F2	GR146458	15529384	8.32KV_3P_Y556_AL	Overhead Line	37.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4773.8
28F2	GR146459	15529405	8.32KV_3P_Y556_AL	Overhead Line	47.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4821.0
28F2	GR146460	16461681	8.32KV_3P_Y556_AL	Overhead Line	33.7	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4854.6
28F2	GR146461	15529410	8.32KV_3P_Y556_AL	Overhead Line	4.3	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.34	96.81	97.73	4858.9
28F2	GR146462	5508754	8.32KV_1P_Y1/0_AL	Overhead Line	41.2	230.0000				0.0			0.0			0.0			97.71	4210.4
28F2	GR146463	5512813	8.32KV_1P_Y1/0_AL	Overhead Line	6.9	230.0000				43.3			9.2			4.0			97.70	4073.2
28F2	GR146464	5508375	8.32KV_1P_Y1/0_AL	Overhead Line	56.3	230.0000				43.3			9.2			4.0			97.69	4129.5
28F2	GR146465	5511710	8.32KV_1P_Y1/0_AL	Overhead Line	47.5	230.0000				43.3			9.2			4.0			97.69	4177.0
28F2	GR146466	5509313	8.32KV_1P_Y1/0_AL	Overhead Line	46.3	230.0000				43.3			9.2			4.0			97.68	4223.3
28F2	GR146467	5509314	8.32KV_1P_Y1/0_AL	Overhead Line	44.2	230.0000				32.5			6.9			3.0			97.68	4267.4
28F2	GR146468	5509315	8.32KV_1P_Y1/0_AL	Overhead Line	2.8	230.0000				0.0			0.0			0.0			97.68	4270.2
28F2	GR146473	5509316	8.32KV_1P_Y1/0_AL	Overhead Line	47.2	230.0000				32.5			6.9			3.0			97.67	4314.6
28F2	GR146474	5509317	8.32KV_1P_Y1/0_AL	Overhead Line	30.3	230.0000				21.7			4.6			2.0			97.67	4344.9
28F2	GR146489	5510208	8.32KV_1P_Y1/0_AL	Overhead Line	34.5	230.0000			98.7			21.2			9.2			96.94			3544.8
28F2	GR146490	5510209	8.32KV_1P_Y1/0_AL	Overhead Line	34.6	230.0000			98.7			21.2			9.2			96.93			3579.4
28F2	GR146491	5510210	8.32KV_1P_Y1/0_AL	Overhead Line	40.3	230.0000			98.7			21.2			9.2			96.92			3619.7
28F2	GR146492	5510211	8.32KV_1P_Y1/0_AL	Overhead Line	52.3	230.0000			74.9			16.1			7.0			96.91			3672.0
28F2	GR146493	5510203	8.32KV_1P_Y1/0_AL	Overhead Line	42.4	230.0000			74.9			16.1			7.0			96.90			3714.4
28F2	GR146494	5511053	8.32KV_1P_Y1/0_AL	Overhead Line	29.0	230.0000			57.1			12.3			5.3			96.90			3743.3
28F2	GR146495	5558598	8.32KV_1P_Y1/0_AL	Overhead Line	38.6	230.0000			57.1			12.3			5.3			96.89			3782.0
28F2	GR146496	5558597	8.32KV_1P_Y1/0_AL	Overhead Line	36.3	230.0000			57.1			12.3			5.3			96.89			3818.2
28F2	GR146497	5510202	8.32KV_1P_Y1/0_AL	Overhead Line	40.4	230.0000			45.2			9.7			4.2			96.88			3858.7
28F2	GR146498	5510201	8.32KV_1P_Y1/0_AL	Overhead Line	41.7	230.0000			45.2			9.7			4.2			96.88			3900.3
28F2	GR146499	5509796	8.32KV_1P_Y1/0_AL	Overhead Line	42.1	230.0000			45.2			9.7			4.2			96.87			3942.5
28F2	GR146500	5509794	8.32KV_1P_Y1/0_AL	Overhead Line	38.0	230.0000			45.2			9.7			4.2			96.87			3980.4
28F2	GR146501	5509795	8.32KV_1P_Y1/0_AL	Overhead Line	4.5	230.0000			41.6			8.9			3.9			96.86			3984.9
28F2	GR146502	5509793	8.32KV_1P_Y1/0_AL	Overhead Line	37.5	230.0000			41.6			8.9			3.9			96.86			4022.4
28F2	GR146503	5509790	8.32KV_1P_Y1/0_AL	Overhead Line	24.0	230.0000			35.7			7.7			3.3			96.86			4046.3
28F2	GR146504	5509789	8.32KV_1P_Y1/0_AL	Overhead Line	41.7	230.0000			35.7			7.7			3.3			96.85			4088.0
28F2	GR146505	5509788	8.32KV_1P_Y1/0_AL	Overhead Line	50.7	230.0000			23.8			5.1			2.2			96.85			4138.7
28F2	GR146506	5559767	8.32KV_1P_Y1/0_AL	Overhead Line	34.1	230.0000			23.8			5.1			2.2			96.85			4172.8
28F2	GR146507	5507539	8.32KV_1P_Y1/0_AL	Overhead Line	29.0	230.0000			5.9			1.3			0.6			96.85			4201.8
28F2	GR146508	5509124	8.32KV_1P_Y1/0_AL	Overhead Line	37.2	230.0000			5.9			1.3			0.6			96.85			4239.0
28F2	GR146509	5509125	8.32KV_1P_Y1/0_AL	Overhead Line	34.6	230.0000			0.0			0.0			0.0			96.85			4273.6
28F2	GR146510	5559389	8.32KV_1P_Y1/0_AL	Overhead Line	42.4	230.0000			0.0			0.0			0.0			96.85			4316.0
28F2	GR146514	5507987	8.32KV_1P_Y1/0_AL	Overhead Line	3.6	230.0000			0.0			0.0			0.0			96.85			4176.4
28F2	GR146515	5508698	8.32KV_1P_Y1/0_AL	Overhead Line	23.4	230.0000			17.8			3.8			1.7			96.85			4196.2
28F2	GR146516	5508699	8.32KV_1P_Y1/0_AL	Overhead Line	42.4	230.0000			17.8			3.8			1.7			96.85			4238.5
28F2	GR146517	5510421	8.32KV_1P_Y1/0_AL	Overhead Line	31.2	230.0000			17.8			3.8			1.7			96.84			4269.8
28F2	GR146522	5509791	8.32KV_1P_Y1/0_AL	Overhead Line	49.1	230.0000			5.9			1.3			0.6			96.86			4071.5
28F2	GR146523	5509792	8.32KV_1P_Y1/0_AL	Overhead Line	34.1	230.0000			5.9			1.3			0.6			96.86			4105.5
28F2	GR146526	5512872	8.32KV_1P_Y1/0_AL	Overhead Line	28.4	230.0000			0.0			0.0			0.0			96.86			4050.7
28F2	GR146533	5510204	8.32KV_1P_Y1/0_AL	Overhead Line	2.0	230.0000			0.0			0.0			0.0			96.91			3673.9
28F2	GR146534	11276166	8.32KV_1P_Y1/0_AL	Overhead Line	42.9	230.0000			0.0			0.0			0.0			96.91			3716.8
28F2	GR146535	5510212	8.32KV_1P_Y1/0_AL	Overhead Line	13.2	230.0000			23.8			5.1			2.2			96.92			3632.9
28F2	GR146538	5508185	8.32KV_1P_Y1/0_AL	Overhead Line	17.4	230.0000		37.0			8.0			3.5			96.34			3118.0
28F2	GR146539	5558704	8.32KV_1P_Y1/0_AL	Overhead Line	42.6	230.0000		37.0			8.0			3.5			96.34			3160.6
28F2	GR146540	5558705	8.32KV_1P_Y1/0_AL	Overhead Line	39.7	230.0000		34.4			7.4			3.2			96.33			3200.3
28F2	GR146541	5558706	8.32KV_1P_Y1/0_AL	Overhead Line	46.6	230.0000		31.7			6.9			3.0			96.33			3246.8
28F2	GR146542	5508135	8.32KV_1P_Y1/0_AL	Overhead Line	3.8	230.0000		10.6			2.3			1.0			96.33			3250.7
28F2	GR146543	5507537	8.32KV_1P_Y1/0_AL	Overhead Line	25.5	230.0000		10.6			2.3			1.0			96.33			3276.2
28F2	GR146544	13519790	8.32KV_1P_N1/0_AL	Overhead Line	3.9	230.0000		0.0			0.0			0.0			96.33			3280.1
28F2	GR146545	5508134	8.32KV_1P_Y1/0_AL	Overhead Line	3.0	230.0000		10.6			2.3			1.0			96.33			3279.2
28F2	GR146550	5558707	8.32KV_1P_Y1/0_AL	Overhead Line	43.6	230.0000		13.2			2.9			1.2			96.33			3290.5
28F2	GR146551	5558708	8.32KV_1P_Y1/0_AL	Overhead Line	43.3	230.0000		13.2			2.9			1.2			96.33			3333.7
28F2	GR146552	5558695	8.32KV_1P_Y1/0_AL	Overhead Line	18.1	230.0000		0.0			0.0			0.0			96.33			3351.8
28F2	GR146553	5558696	8.32KV_1P_Y1/0_AL	Overhead Line	37.8	230.0000		7.9			1.7			0.7			96.33			3371.5
28F2	GR146554	5511489	8.32KV_1P_Y1/0_AL	Overhead Line	40.0	230.0000		7.9			1.7			0.7			96.33			3411.5
28F2	GR146555	5558697	8.32KV_1P_Y1/0_AL	Overhead Line	47.2	230.0000		7.9			1.7			0.7			96.32			3458.6
28F2	GR146556	5558698	8.32KV_1P_Y1/0_AL	Overhead Line	21.5	230.0000		7.9			1.7			0.7			96.32			3480.2
28F2	GR146557	5558699	8.32KV_1P_Y1/0_AL	Overhead Line	23.1	230.0000		7.9			1.7			0.7			96.32			3503.3
28F2	GR146558	5558700	8.32KV_1P_Y1/0_AL	Overhead Line	18.7	230.0000		0.0			0.0			0.0			96.32			3522.0
28F2	GR146559	5558701	8.32KV_1P_Y1/0_AL	Overhead Line	21.8	230.0000		0.0			0.0			0.0			96.32			3543.7
28F2	GR146560	5558702	8.32KV_1P_Y1/0_AL	Overhead Line	21.3	230.0000		0.0			0.0			0.0			96.32			3565.1
28F2	GR146561	5558703	8.32KV_1P_Y1/0_AL	Overhead Line	20.3	230.0000		0.0			0.0			0.0			96.32			3585.4
28F2	GR146566	5558709	8.32KV_1P_Y1/0_AL	Overhead Line	45.4	230.0000		7.9			1.7			0.7			96.33			3292.2
28F2	GR146567	5511490	8.32KV_1P_Y1/0_AL	Overhead Line	48.2	230.0000		7.9			1.7			0.7			96.33			3340.4
28F2	GR146568	5558710	8.32KV_1P_Y1/0_AL	Overhead Line	50.3	230.0000		0.0			0.0			0.0			96.33			3390.7
28F2	GR146575	5508131	8.32KV_3P_Y1/0_AL	Overhead Line	4.3	230.0000		10.6	23.8	21.7	2.3	5.1	4.6	1.0	2.2	2.0	96.36	97.19	97.69	2933.8
28F2	GR146580	5508327	8.32KV_1P_Y1/0_AL	Overhead Line	5.8	230.0000				43.3			9.2			4.0			97.69	2885.3
28F2	GR146591	5558927	8.32KV_1P_Y1/0_AL	Overhead Line	19.0	230.0000		100.5			21.7			9.4			96.36				2898.5
28F2	GR146592	5558928	8.32KV_1P_Y1/0_AL	Overhead Line	29.6	230.0000		100.5			21.7			9.4			96.35				2928.0
28F2	GR146593	5558929	8.32KV_1P_Y1/0_AL	Overhead Line	33.7	230.0000		100.5			21.7			9.4			96.34				2961.7

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
28F2	GR146596	5558926	8.32KV_1P_Y1/0_AL	Overhead Line	2.7	230.0000		2.6			0.6			0.2			96.34			2964.4
28F2	GR146597	11340594	8.32KV_1P_Y1/0_AL	Overhead Line	41.8	230.0000		2.6			0.6			0.2			96.34			3006.2
28F2	GR146598	5508372	8.32KV_1P_Y1/0_AL	Overhead Line	40.8	230.0000		2.6			0.6			0.2			96.34			3047.1
28F2	GR146599	5512032	8.32KV_1P_Y1/0_AL	Overhead Line	45.1	230.0000		2.6			0.6			0.2			96.34			3092.2
28F2	GR146602	5558930	8.32KV_1P_Y1/0_AL	Overhead Line	32.5	230.0000		92.5			20.0			8.7			96.33			2994.2
28F2	GR146603	5558931	8.32KV_1P_Y1/0_AL	Overhead Line	34.0	230.0000		92.5			20.0			8.7			96.32			3028.2
28F2	GR146604	5511956	8.32KV_1P_Y1/0_AL	Overhead Line	41.2	230.0000		79.3			17.1			7.5			96.31			3069.4
28F2	GR146605	5511492	8.32KV_1P_Y1/0_AL	Overhead Line	42.9	230.0000		79.3			17.1			7.5			96.30			3112.3
28F2	GR146606	5558902	8.32KV_1P_Y1/0_AL	Overhead Line	0.7	230.0000		74.0			16.0			7.0			96.30			3113.0
28F2	GR146607	18088413	8.32KV_1P_Y1/0_AL	Overhead Line	29.6	230.0000		63.4			13.7			6.0			96.30			3142.5
28F2	GR146608	5558901	8.32KV_1P_Y1/0_AL	Overhead Line	43.9	230.0000		63.4			13.7			6.0			96.29			3186.5
28F2	GR146609	5511182	8.32KV_1P_Y1/0_AL	Overhead Line	3.6	230.0000		63.4			13.7			6.0			96.29			3190.0
28F2	GR146610	5511181	8.32KV_1P_Y1/0_AL	Overhead Line	4.8	230.0000		5.3			1.1			0.5			96.29			3194.8
28F2	GR146611	5558903	8.32KV_1P_Y1/0_AL	Overhead Line	34.2	230.0000		5.3			1.1			0.5			96.29			3229.0
28F2	GR146612	5558906	8.32KV_1P_Y1/0_AL	Overhead Line	50.6	230.0000		5.3			1.1			0.5			96.29			3279.7
28F2	GR146613	5558905	8.32KV_1P_Y1/0_AL	Overhead Line	40.6	230.0000		0.0			0.0			0.0			96.29			3320.2
28F2	GR146616	5558900	8.32KV_1P_Y1/0_AL	Overhead Line	35.6	230.0000		58.2			12.6			5.5			96.28			3225.6
28F2	GR146617	5558899	8.32KV_1P_Y1/0_AL	Overhead Line	32.2	230.0000		58.1			12.6			5.5			96.28			3257.9
28F2	GR146618	5558898	8.32KV_1P_Y1/0_AL	Overhead Line	43.0	230.0000		52.9			11.4			5.0			96.27			3300.8
28F2	GR146619	5558897	8.32KV_1P_Y1/0_AL	Overhead Line	42.9	230.0000		52.9			11.4			5.0			96.27			3343.7
28F2	GR146620	13127397	8.32KV_1P_Y1/0_AL	Overhead Line	4.0	230.0000		13.2			2.9			1.2			96.26			3347.7
28F2	GR146621	5510873	8.32KV_1P_Y1/0_AL	Overhead Line	22.6	230.0000		13.2			2.9			1.2			96.26			3370.3
28F2	GR146622	5558313	8.32KV_1P_Y1/0_AL	Overhead Line	30.0	230.0000		13.2			2.9			1.2			96.26			3400.2
28F2	GR146623	5558312	8.32KV_1P_Y1/0_AL	Overhead Line	39.9	230.0000		5.3			1.1			0.5			96.26			3440.1
28F2	GR146624	5558311	8.32KV_1P_Y1/0_AL	Overhead Line	36.9	230.0000		5.3			1.1			0.5			96.26			3477.1
28F2	GR146625	5558310	8.32KV_1P_Y1/0_AL	Overhead Line	36.7	230.0000		5.3			1.1			0.5			96.26			3513.8
28F2	GR146632	5558329	8.32KV_1P_Y1/0_AL	Overhead Line	49.1	230.0000		31.7			6.9			3.0			96.26			3392.8
28F2	GR146633	5558330	8.32KV_1P_Y1/0_AL	Overhead Line	30.5	230.0000		31.7			6.9			3.0			96.26			3423.3
28F2	GR146634	5558484	8.32KV_1P_Y1/0_AL	Overhead Line	37.6	230.0000		26.4			5.7			2.5			96.25			3460.9
28F2	GR146635	5558485	8.32KV_1P_Y1/0_AL	Overhead Line	36.8	230.0000		18.5			4.0			1.7			96.25			3497.7
28F2	GR146636	5558486	8.32KV_1P_Y1/0_AL	Overhead Line	27.2	230.0000		18.5			4.0			1.7			96.25			3524.9
28F2	GR146637	5558487	8.32KV_1P_Y1/0_AL	Overhead Line	40.0	230.0000		18.5			4.0			1.7			96.25			3564.9
28F2	GR146638	5512633	8.32KV_1P_Y1/0_AL	Overhead Line	41.5	230.0000		13.2			2.9			1.2			96.25			3606.3
28F2	GR146639	5558495	8.32KV_1P_Y1/0_AL	Overhead Line	39.0	230.0000		13.2			2.9			1.2			96.25			3645.3
28F2	GR146640	5558496	8.32KV_1P_Y1/0_AL	Overhead Line	31.9	230.0000		5.3			1.1			0.5			96.25			3677.2
28F2	GR146641	5558497	8.32KV_1P_Y1/0_AL	Overhead Line	28.4	230.0000		5.3			1.1			0.5			96.25			3705.5
28F2	GR146642	5558498	8.32KV_1P_Y1/0_AL	Overhead Line	34.4	230.0000		5.3			1.1			0.5			96.24			3739.9
28F2	GR146643	5558527	8.32KV_1P_Y1/0_AL	Overhead Line	30.5	230.0000		0.0			0.0			0.0			96.24			3770.4
28F2	GR146648	5558488	8.32KV_1P_Y1/0_AL	Overhead Line	26.5	230.0000		5.3			1.1			0.5			96.25			3591.3
28F2	GR146649	5558489	8.32KV_1P_Y1/0_AL	Overhead Line	20.7	230.0000		5.3			1.1			0.5			96.25			3612.0
28F2	GR146650	5558490	8.32KV_1P_Y1/0_AL	Overhead Line	22.7	230.0000		5.3			1.1			0.5			96.25			3634.7
28F2	GR146651	5558491	8.32KV_1P_Y1/0_AL	Overhead Line	19.4	230.0000		0.0			0.0			0.0			96.25			3654.1
28F2	GR146652	5558492	8.32KV_1P_Y1/0_AL	Overhead Line	20.8	230.0000		0.0			0.0			0.0			96.25			3674.9
28F2	GR146653	5558493	8.32KV_1P_Y1/0_AL	Overhead Line	25.4	230.0000		0.0			0.0			0.0			96.25			3700.3
28F2	GR146654	5558494	8.32KV_1P_Y1/0_AL	Overhead Line	23.9	230.0000		0.0			0.0			0.0			96.25			3724.2
28F2	GR146655	5508136	8.32KV_1P_Y1/0_AL	Overhead Line	37.4	230.0000		0.0			0.0			0.0			96.25			3761.6
28F2	GR146666	9031378	8.32KV_1P_Y1/0_AL	Overhead Line	39.8	230.0000		5.3			1.1			0.5			96.30			3152.0
28F2	GR146667	5558693	8.32KV_1P_Y1/0_AL	Overhead Line	34.2	230.0000		5.3			1.1			0.5			96.30			3186.3
28F2	GR146668	5512634	8.32KV_1P_Y1/0_AL	Overhead Line	33.7	230.0000		5.3			1.1			0.5			96.30			3219.9
28F2	GR146669	17989204	8.32KV_1P_Y1/0_AL	Overhead Line	34.8	230.0000		0.0			0.0			0.0			96.30			3254.7
28F2	GR146670	5558694	8.32KV_1P_Y1/0_AL	Overhead Line	29.8	230.0000		0.0			0.0			0.0			96.30			3284.5
28F2	GR146671	5562100	8.32KV_1P_Y1/0_AL	Overhead Line	28.5	230.0000		0.0			0.0			0.0			96.30			3313.0
28F2	GR146674	5558932	8.32KV_1P_Y1/0_AL	Overhead Line	26.1	230.0000		13.2			2.9			1.2			96.32			3054.3
28F2	GR146675	5558933	8.32KV_1P_Y1/0_AL	Overhead Line	36.7	230.0000		7.9			1.7			0.7			96.32			3091.0
28F2	GR146676	5513033	8.32KV_1P_Y1/0_AL	Overhead Line	47.0	230.0000		7.9			1.7			0.7			96.32			3138.0
28F2	GR146677	5508133	8.32KV_1P_Y1/0_AL	Overhead Line	29.0	230.0000		7.9			1.7			0.7			96.32			3167.0
28F2	GR146678	13519789	8.32KV_1P_N1/0_AL	Overhead Line	43.9	230.0000		0.0			0.0			0.0			96.32			3210.9
28F2	GR146683	18145823	8.32KV_3P_Y556_AL	Overhead Line	49.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.47	97.30	97.75	2718.5
28F2	GR146684	5511178	8.32KV_3P_Y556_AL	Overhead Line	5.1	530.0000		31.7	65.5	108.6	6.8	14.0	23.1	1.3	2.6	4.4	96.60	97.35	97.78	2564.6
28F2	GR146763	5508683	8.32KV_3P_Y556_AL	Overhead Line	4.7	530.0000		23.2	23.2	23.2	5.0	5.0	4.9	0.9	0.9	0.9	96.73	97.42	97.83	2456.1
28F2	GR146768	5508679	8.32KV_3P_Y1/0_AL	Overhead Line	5.7	230.0000		21.2	47.6	43.4	4.6	10.2	9.2	2.0	4.4	4.0	96.79	97.45	97.85	2407.5
28F2	GR146778	15618809	8.32KV_3P_Y556_AL	Overhead Line	25.8	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.83	97.48	97.87	2395.8
28F2	GR146779	5508674	8.32KV_3P_Y1/0_AL	Overhead Line	6.4	230.0000		27.4	28.9	38.0	5.9	6.2	8.1	2.6	2.7	3.5	96.95	97.55	97.93	2281.2
28F2	GR146789	15615569	8.32KV_3P_Y556_AL	Overhead Line	3.2	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.16	97.66	98.04	2124.5
28F2	GR146871	16466074	8.32KV_3P_Y556_AL	Overhead Line	14.1	530.0000		55.1	55.1	55.1	11.8	11.7	11.7	2.2	2.2	2.2	97.57	97.90	98.27	1826.8
28F2	GR146872	15611765	8.32KV_3P_N1/0_AL	Overhead Line	2.5	230.0000		55.1	55.1	55.1	11.8	11.7	11.7	5.1	5.1	5.1	97.57	97.90	98.27	1829.3
28F2	GR146877	16439258	8.32KV_3P_Y556_AL	Overhead Line	2.1	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.57	97.90	98.27	1828.9
28F2	GR146878	18102969	8.32KV_3P_Y556_AL	Overhead Line	4.0	530.0000		5.3	11.9	10.8	1.1	2.5	2.3	0.2	0.5	0.4	99.87	99.87	99.89	109.1
28F2	GR146883	5511043	8.32KV_3P_Y336_AL	Overhead Line	3.9	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.98	99.99	99.99	15.9
28F2	GR146884	5511039	8.32KV_3P_Y336_AL	Overhead Line	22.0	530.0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.98	99.99	99.99	37.9
28F2	GR145686	TP6655-11359591	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.4			21.6			98.03	1440.7
28F2	GR145691	TP6654-11359649	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.93	1610.3
28F2	GR145696	TP6653-11360032	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.85	1745.2
28F2	GR145702	TP5585-5524527	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.72	2011.0
28F2	GR145707	TP5574-1676020	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.63	2228.5
28F2	GR145712	TP5575-1676021	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.60	2299.3

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
28F2	GR145717	TP5576-1676022	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.55	2448.0
28F2	GR145722	TP5577-1676023	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.50	2581.7
28F2	GR145728	GB000158-5524908	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.44	2779.0
28F2	GR145733	TP5296-1676010	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.41	2949.1
28F2	GR145738	TP5297-5524531	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.39	3102.1
28F2	GR145744	TP5572-5524698	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.38	3215.0
28F2	GR145757	TP5295-5524017	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.96	1574.1
28F2	GR145766	GB020172-1676109	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			97.47			1820.8
28F2	GR145771	GB020173-1676110	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			97.46			1961.5
28F2	GR145776	GB020179-1676112	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			97.44			2221.3
28F2	GR145781	TP2793-1697833	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			97.43			2368.4
28F2	GR145786	TP2794-1698289	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			97.43			2508.8
28F2	GR145791	GB020178-1678668	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			97.42			2672.3
28F2	GR145797	TP4761-11234276	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.5			23.6			97.38		1903.1
28F2	GR145802	TP6656-11358983	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.1			23.6			97.33		2020.6
28F2	GR145807	TP4762-11234278	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.5			23.6			97.29		2166.8
28F2	GR145812	TP4763-11234282	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.5			23.6			97.26		2310.5
28F2	GR145817	TP9249-12986760	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			3.8			23.6			97.21		2576.9
28F2	GR145822	TP9251-12986758	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.5			23.6			97.18		2806.1
28F2	GR145827	TP9250-12986759	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			3.8			23.6			97.16		2928.4
28F2	GR145832	TP4764-11234284	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.5			23.6			97.15		3199.4
28F2	GR145880	TP7215-11473129	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.9			2.6			23.6			96.23			2965.6
28F2	GR145885	TP7214-11473124	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	11.9			2.6			23.6			96.21			3096.9
28F2	GR145891	TP6792-11373089	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	17.8			3.8			23.6			96.19			3495.1
28F2	GR145901	TP7210-11473115	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.50			3181.7
28F2	GR145906	TP7211-11473160	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.49			3308.9
28F2	GR145911	TP7212-11473156	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.48			3441.9
28F2	GR145916	TP7213-11473146	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.47			3625.7
28F2	GR145926	TP7216-11473167	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.26	3091.3
28F2	GR145931	TP7286-1686281	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.23	3230.6
28F2	GR145937	TP7219-11479000	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.22	3411.4
28F2	GR145943	TP6797-11373116	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.5			21.6			97.21	3582.5
28F2	GR145948	TP7479-13126979	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.5			21.6			96.99	3718.6
28F2	GR145955	X58438-15615469	8.32KV_120V/208V_150_3P	Two-Winding Transformer	0.0		150.00	5.3	11.9	10.8	1.1	2.5	2.3	10.5	23.6	21.6	96.53	96.87	97.27	2548.4
28F2	GR145957	X58437-15615468	8.32KV_120V/208V_75_3P	Two-Winding Transformer	0.0		75.00	2.6	5.9	5.4	0.6	1.3	1.1	3.5	7.9	7.2	96.80	97.43	97.80	2489.1
28F2	GR145985	TP12160-16421938	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.1			23.6			95.71		3382.7
28F2	GR145990	TP12161-16421954	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.1			23.6			95.66		3451.3
28F2	GR145995	TP12162-16421956	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.1			23.6			95.57		3603.3
28F2	GR146000	TP12163-16421955	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.2			23.6			95.55		3635.3
28F2	GR146005	TP12164-16421957	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.2			23.6			95.48		3773.5
28F2	GR146010	TP12165-16421959	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.2			23.6			95.46		3834.9
28F2	GR146015	TP12166-16421960	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.2			23.6			95.41		3964.4
28F2	GR146020	TP12167-16421961	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.2			23.6			95.40		4005.6
28F2	GR146025	TP12168-16421962	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.2			23.6			95.40		4044.9
28F2	GR146030	TP12151-16421936	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.3			10.5			94.81			3311.5
28F2	GR146035	TP12152-16421943	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.3			10.5			94.79			3427.9
28F2	GR146040	TP12153-16421945	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.3			10.5			94.76			3555.5
28F2	GR146045	TP12154-16421947	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.3			10.5			94.74			3699.0
28F2	GR146050	TP12155-16421948	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.3			10.5			94.73			3818.1
28F2	GR146055	TP12156-16421949	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.3			10.5			94.73			3851.8
28F2	GR146060	TP12157-16421950	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.3			10.5			94.73			3885.5
28F2	GR146065	TP13957-18175192	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.5			21.6			96.91	3726.1
28F2	GR146070	TP13956-18175425	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			96.90	3832.0
28F2	GR146075	TP13955-18175618	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			96.89	3923.4
28F2	GR146123	TP13948-18175207	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	16.3			3.6			21.6			94.30			3992.8
28F2	GR146128	TP13949-18175621	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	21.7			4.8			21.6			94.26			4090.9
28F2	GR146133	TP13950-18175622	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	21.7			4.8			21.6			94.25			4119.9
28F2	GR146138	TP13951-18175624	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	21.7			4.8			21.6			94.20			4284.1
28F2	GR146143	TP13952-18177025	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	21.7			4.8			21.6			94.19			4318.6
28F2	GR146148	TP13953-18175625	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	16.3			3.6			21.6			94.18			4401.2
28F2	GR146080	TP13954-18175626	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	21.7			4.8			21.6			94.18			4465.2
28F2	GR146158	TP12158-16421941	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.1			23.6			95.60		3839.8
28F2	GR146163	TP12159-16421942	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.1			23.6			95.58		3897.3
28F2	GR146168	TP12174-16421963	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.2			23.6			95.46		4175.1
28F2	GR146173	TP12173-16421964	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.2			23.6			95.43		4278.8
28F2	GR146178	TP12172-16421966	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.2			23.6			95.41		4371.8
28F2	GR146183	TP12171-16421967	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.2			23.6			95.39		4453.0
28F2	GR146188	TP12170-16421968	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.2			23.6			95.39		4493.6
28F2	GR146193	TP12169-16421939	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.2			23.6			95.39		4718.1
28F2	GR146203	TP13964-18179296	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			94.91			3278.2
28F2	GR146208	TP13969-18196980	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.3			10.5			94.90			3390.4
28F2	GR146214	TP13968-18196978	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.3			10.5			94.89			3504.7
28F2	GR146221	TP13963-18179293	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.5			21.6			96.97	3159.4
28F2	GR146227	TP13970-18196963	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.5			21.6			96.91	3403.4
28F2	GR146232	TP13971-18196956	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00			36.2			7.7			21.6			96.88	3486.0
28F2	GR146237	TP13972-18196954	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			96.89	3508.0

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
28F2	GR146245	TP13958-18179292	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	39.7			8.7			23.6			94.66			3170.7
28F2	GR146251	TP13959-18180924	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	39.7			8.7			23.6			94.56			3370.7
28F2	GR146256	TP13960-18180693	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	39.7			8.7			23.6			94.52			3489.7
28F2	GR146261	TP13961-18180692	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	39.7			8.7			23.6			94.52			3501.3
28F2	GR146266	TP13962-18180690	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	23.8			5.2			23.6			94.52			3606.9
28F2	GR146275	TP13965-18196981	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	17.7			3.9			10.5			94.94			3330.4
28F2	GR146280	TP13966-18196977	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	17.7			3.9			10.5			94.92			3510.5
28F2	GR146285	TP13967-18196976	8.32KV_120V/240V_167_1P	Two-Winding Transformer	0.0		167.00	17.7			3.9			10.5			94.92			3529.9
28F2	GR146292	TP5588-5513104	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.09	2978.5
28F2	GR146297	TP5589-1691402	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.08	3081.7
28F2	GR146341	X36172-5526304	8.32KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50			8.1			1.7			21.6			97.14	4142.3
28F2	GR146343	X36173-5525936	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.14	4099.5
28F2	GR146347	X36170-5525766	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.15	3968.8
28F2	GR146352	GB000232-1676017	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.14	4007.5
28F2	GR146355	X67872-5525740	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.5			21.6			97.16	3811.8
28F2	GR146375	X36040-1676051	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			96.07			4362.8
28F2	GR146377	X36031-1676013	8.32KV_120V/240V_37.5_1P	Two-Winding Transformer	0.0		37.50	4.0			0.9			10.5			96.07			4319.7
28F2	GR146379	X36026-1682297	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.07			4147.3
28F2	GR146382	X36168-5525934	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	2.6			0.6			10.5			96.08			4137.1
28F2	GR146392	X36162-5525562	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			96.31		3999.7
28F2	GR146417	X35418-5525055	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			96.21		4637.0
28F2	GR146424	X36156-5524716	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			3.8			23.6			96.20		4684.8
28F2	GR146426	X36032-5525240	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		5.9			1.3			23.6			96.20		4653.5
28F2	GR146437	X36034-5525054	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			96.19		4808.9
28F2	GR146440	X36049-10004951	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			3.8			23.6			96.21		4533.7
28F2	GR146442	X36154-1676001	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		5.9			1.3			23.6			96.24		4386.6
28F2	GR146471	TP5592-5513481	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.16	4432.3
28F2	GR146477	TP5593-5525921	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.16	4369.5
28F2	GR146483	X35882-5525944	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.16	4314.6
28F2	GR146485	X35875-5525735	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.17	4223.3
28F2	GR146487	X67865-18121892	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.18	3768.5
28F2	GR146511	X36028-5525371	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		5.9			1.3			23.6			96.29		4239.0
28F2	GR146518	X36164-5525070	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			3.8			23.6			96.29		4269.8
28F2	GR146520	X36027-5525373	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			96.30		4088.0
28F2	GR146524	X36163-5525214	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00		5.9			1.3			23.6			96.30		4105.5
28F2	GR146527	X36167-5525046	8.32KV_120V/240V_15_1P	Two-Winding Transformer	0.0		15.00		3.6			0.8			23.6			96.31		3980.4
28F2	GR146529	X36165-5525195	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.6			23.6			96.33		3818.2
28F2	GR146531	X36042-5525217	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			3.8			23.6			96.35		3714.4
28F2	GR146536	X36030-5525561	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00		23.8			5.1			23.6			96.37		3632.9
28F2	GR146548	TP5594-5526453	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.3			10.5			96.06			3359.2
28F2	GR146562	X32990-5525938	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.06			3503.3
28F2	GR146564	X32992-5526303	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			96.06			3333.7
28F2	GR146569	X32903-5513282	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.06			3340.4
28F2	GR146571	X32907-5526302	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	2.6			0.6			10.5			96.07			3200.3
28F2	GR146573	X32917-5524513	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	2.6			0.6			10.5			96.07			3160.6
28F2	GR146578	TP5298-5526098	8.32KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	10.6	23.8	21.7	2.3	5.1	4.6	10.5	23.6	21.6	96.02	96.47	97.03	3004.0
28F2	GR146583	TP5591-5526472	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.17	2921.1
28F2	GR146588	TP5590-1676019	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00			21.7			4.6			21.6			97.16	3040.4
28F2	GR146594	X55663-15631721	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			96.07			2961.7
28F2	GR146600	X36159-1681774	8.32KV_120V/240V_25_1P	Two-Winding Transformer	0.0		25.00	2.6			0.6			10.5			96.07			3092.2
28F2	GR146614	X32924-5526088	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			96.02			3279.7
28F2	GR146626	X26521-5526089	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			95.99			3513.8
28F2	GR146628	X32918-5526090	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.00			3400.2
28F2	GR146630	X32901-1687213	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.00			3343.7
28F2	GR146644	X36047-5526476	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			95.98			3739.9
28F2	GR146646	X32921-5526475	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			95.98			3645.3
28F2	GR146656	X35398-5526091	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			95.98			3634.7
28F2	GR146658	X32999-5512916	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			95.99			3460.9
28F2	GR146660	X32991-1687209	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			95.99			3423.3
28F2	GR146662	X32912-1681559	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			96.01			3257.9
28F2	GR146664	X46064-5526305	8.32KV_120V/240V_100_1P	Two-Winding Transformer	0.0		100.00	10.6			2.3			10.5			96.04			3113.0
28F2	GR146672	X36046-1687210	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			96.04			3219.9
28F2	GR146679	X32919-5526300	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.05			3167.0
28F2	GR146681	X32982-5513117	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00	5.3			1.1			10.5			96.06			3054.3
28F2	GR146688	GB020124-1678117	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.5			23.6			96.72		2961.9
28F2	GR146693	GB020125-1686282	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00		17.8			3.8			23.6			96.70		3101.6
28F2	GR146698	TP4168-5526279	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.5			23.6			96.67		3308.5
28F2	GR146703	TP4170-5526111	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.5			23.6			96.66		3453.2
28F2	GR146708	TP4169-5526094	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00		11.9			2.5			23.6			96.66		3559.2
28F2	GR146713	GB020123-1653452	8.32KV_120V/240V_50_1P	Two-Winding Transformer	0.0		50.00			10.8			2.3			21.6			97.18	2846.1
28F2	GR146718	TP7478-13126972	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.5			21.6			97.08	3140.1
28F2	GR146723	TP10493-14677778	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.5			21.6			97.04	3284.7
28F2	GR146728	TP10492-14677773	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.5			21.6			97.03	3361.8
28F2	GR146733	TP10491-14677768	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.5			21.6			97.00	3510.0
28F2	GR146738	TP7480-13126980	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00			16.2			3.5			21.6			96.99	3618.0
28F2	GR146745	GB020122-1653451	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.33			2676.1

Feeder Id	Section Id	Equipment No	Equipment Id	Code	Length (m)	Nom. Rating (A)	Cap Nom (kVA)	Thru Power A (kVA)	Thru Power B (kVA)	Thru Power C (kVA)	IA (A)	IB (A)	IC (A)	Loading A (%)	Loading B (%)	Loading C (%)	VA (%)	VB (%)	VC (%)	Total distance (m)
28F2	GR146750	TP6793-11373093	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.29			3251.9
28F2	GR146755	TP6795-11373105	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.28			3452.7
28F2	GR146760	TP6796-11373110	8.32KV_120V/240V_75_1P	Two-Winding Transformer	0.0		75.00	7.9			1.7			10.5			96.27			3569.7
28F2	GR146766	TP5568-5525941	8.32KV_120V/208V_225_3P	Two-Winding Transformer	0.0		225.00	23.2	23.2	23.2	5.0	5.0	4.9	30.6	30.6	30.6	95.54	96.24	96.65	2476.6
28F2	GR146771	TP5586-5510978	8.32KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	10.6	23.8	21.7	2.3	5.1	4.6	10.5	23.6	21.6	96.45	96.73	97.19	2526.6
28F2	GR146776	GB000153-5524673	8.32KV_120V/208V_300_3P	Two-Winding Transformer	0.0		300.00	10.6	23.8	21.7	2.3	5.1	4.6	10.5	23.6	21.6	96.45	96.73	97.19	2592.8
28F2	GR146787	TV5850-5526510	8.32KV_120V/208V_501_3P	Two-Winding Transformer	0.0		501.00	27.4	28.9	38.0	5.9	6.2	8.1	5.5	5.8	7.6	96.89	97.53	97.87	2463.8
28F2	GR146875	TP3375-5524033	8.32KV_347V/600V_500_3P	Two-Winding Transformer	0.0		500.00	55.1	55.1	55.1	11.8	11.7	11.7	32.7	32.7	32.7	96.38	96.71	97.09	1838.8
28F2	GR146881	RHSSST2-18184291	8.32KV_120V/208V_150_3P	Two-Winding Transformer	0.0		150.00	5.3	11.9	10.8	1.1	2.5	2.3	10.5	23.6	21.6	99.58	99.27	99.33	143.1

C

Appendix C

Summary of CYME Model Modifications Made by CIMA

Modification Summary

Feeder Name	Station	Description
SK16	King Edward SK	Updated max loading
4F5/BLKF5	Blackburn MS	Meter created at source breaker with updated max loading, suspect locked loads modified
ELW14	Ellwood MTS	Updated max loading, suspect transformers modified
LTM02	Leitrim MS	Source changed from 13.2kV to 27.6kV, meter created at source breaker with updated max loading, max demand loading revised by Hydro Ottawa, suspect transformers and locked loads modified
RHN F3	Richmond North DS	Meter created at feeder breaker with updated max loading, suspect transformers modified, suspect source and suspect main DS transformer redone with new 8.32kV source
FAL04	Fallowfield MTS	Source changed from 13.2kV to 27.6kV, meter created at source breaker with updated max loading, suspect locked loads modified
MWDF3	Marchwood MS	Source changed from 13.2kV to 27.6kV, updated max loading
UN04	Henderson UN	Source changed from 13.2kV to 4.16kV, updated max loading, suspect locked loads modified
28F2	Richmond South DS	Source changed from 13.2kV to 8.32kV, meter created at source breaker with updated max loading

Detailed Modifications

Comprehensive

Corrected database distribution TXs as needed (Pri/sec voltage, winding configuration, etc.)

All locked loading was not modified unless loading was grossly above transformer rating

All 8.32kV balanced overhead conductors nominal rating not programmed, all nominal ratings were set to the same as the programmed summer/winter ratings

Generator contribution not included in studies

4F5/BLKF5

Locked Load	Description	Action
GR133667	Locked load set higher than A Phase demand, No connected kVA	locked load removed, connected KVA set to Tx capacity (50kVA) and load allocated as per allocation study

ELW14

Suspect Transformers	Transformer Model	Connected Capacity	Loading	Action
VT0243-T1-1673705	Default	3000kVA	-	Set to 3000kVA, 13.2kV-600V, 3P, load allocated as per allocation study

LTM02

Suspect Transformers	Transformer Model	Connected Capacity	Loading	Action
X24417-1655271	Default	40kVA	-	Disconnected
TN8943-11647381	Default	1333kVA	1138kW locked load	Transformer set to 1500kVA, 27.6kV-600V, 3P
GRST2	Default	N/A	-	Disconnected
GRST1	Default	N/A	-	Disconnected

Locked Load	Description	Action
GR2121103	389kW on 100kVA Tx	Locked load removed and allocated as per load allocation study
GR2121688	807kW (269kW per phase) on 225kVA (75kVA per phase Tx)	Locked load removed and allocated as per load allocation study
GR2120650	55kW on 25kVA Tx	Locked load removed and allocated as per load allocation study

RHN F3

Suspect Transformers	Transformer Model	Connected Capacity	Loading	Action
X26746-18027305	Default	10kVA	-	Disconnected

Suspect Source Voltage	Action
Source feeder (A9M3) is modelled as 13.2kV but appear that it should actually be 44kV	RHNF3 disconnected from upstream distribution by opening switch RICHMOND_NORTH_DS_S24047-1645523
Transformer RHNT2 (Richmond North DS Main Transformer) is modelled as 13kV-8.32kV, primary voltage appears that it should actually be 44kV	New 8.32kV source inserted directly upstream of circuit breaker RHNF3-5500021 to act as new source for feeder RHNF3

FAL04

Locked Load	Description	Action
GR26872	1357kW (452kW per phase) on 300kVA (100kVA per phase Tx)	Locked load removed and allocated as per load allocation study
GR28702	151kW on 50kVA Tx	Locked load removed and allocated as per load allocation study
GR28229	101kW on 50kVA Tx	Locked load removed and allocated as per load allocation study
GR28279	278kW on 75kVA Tx	Locked load removed and allocated as per load allocation study
GR27743	62kW on 50kVA Tx	Locked load removed and allocated as per load allocation study

UN04

Locked Load	Description	Action
GR239756	93kW on 50kVA Tx	Locked load removed and allocated as per load allocation study

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INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

8-ED-40

EVIDENCE REFERENCE:

Exhibit 8, Tab 2, Schedule 3, Attachment B (system losses plan)

QUESTION(S):

a) Please ask CIMA+ to comment on what it would suggest potentially including in a further study during the next rate period to build on the learnings from its report to Hydro Ottawa, address any potential missing data or other gaps, and explore additional means to cost- effectively reduce distribution losses.

RESPONSE(S):

a) Hydro Ottawa respectfully declines to answer this question because the question is beyond the scope in this proceeding. The question does not pertain to evidence that was filed in this proceeding; it pertains to speculative evidence that may or may not be filed in a future proceeding. Further, as a practical matter, CIMA+'s engagement on the loss factor study was completed a number of years ago, and the procurement arrangement underpinning that study is no longer active.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

8-ED-41

EVIDENCE REFERENCE:

Exhibit 8, Tab 2, Schedule 3, Attachment B (distribution loss study)

QUESTION(S):

a) For each of the following loss reduction measures indicated in the CIMA+ study, please indicate the staff positions that are responsible for the measure and whether additional staffing or O&M funding would assist in achieving incremental loss reductions.
b) The CIMA+ report for Burlington Hydro notes that "Embedded Distributed Generation (DG) can offer the LDC an opportunity to improve a feeders' voltage profile ...." Please discuss how inverter-based DERs can or can't be used to improve the voltage profile or for power factor correction. Would Hydro Ottawa agree to internally study the option of contracting with customers with existing or new DERs to provide that service?
c) Please describe how Hydro Ottawa considers losses in its procurement of conductors and transformers. Please include any internal guides or documentation relevant to that topic.
d) Some LDCs assess alternatives with respect to conductors and transformers by comparing the all-in lifetime cost of each alternative (e.g. different sized conductors, different transformer brands) in a way that includes the forecast volume of losses arising from each alternative. Does Hydro Ottawa do this? If not, why not? If yes, please provide the internal guides or documentation that detail this.

RESPONSE(S):

a) The Distribution Engineer and Engineering Intern positions are responsible for monitoring loss reduction measures identified in the CIMA+ study, among other planning activities. The oversight and activities associated with the proposed loss reduction plan summarized in

8-ED-39 g) are factors contributing to Hydro Ottawa's 58 requested positions in Engineering & Design outlined in Schedule 4-1-3(C) - Workforce Growth.

b) The CIMA+ report for Burlington Hydro is specific to Burlington's distribution system and would be based on the needs of its distribution system. This request does not seek clarification on Hydro Ottawa's evidence, documentation, or other information in its possession.

In general, inverter-based distributed energy resources (DERs) can be used to improve the voltage profile and for power factor correction. This is primarily achieved through the advanced capabilities of "smart inverters," which can control the flow of reactive power to and from the grid. Hydro Ottawa has not identified a need for this support on the system at this time and therefore Hydro Ottawa has not yet evaluated the option nor sees the need to investigate the option of contracting with customers with existing or new DERs to provide this service.

c) Hydro Ottawa considers losses in its procurement of conductors and transformers by using equipment that meets or exceeds the Canadian Standards Association (CSA) energy efficiency standards. The CSA standards for conductors and transformers focus on energy efficiency by specifying minimum efficiency levels, material choices, and design considerations to minimize losses. For example, CSA C2.1:24 Single-Phase and Three-Phase Liquid-Filled Distribution Transformers references require that transformer efficiencies meet CSA C802.1 Minimum efficiency values for liquid-filled distribution transformers.

d) Hydro Ottawa does not include the all-in lifetime cost that includes losses for each alternative. Hydro Ottawa specifies equipment that is CSA-approved. Please refer to c) above.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

8-ED-42

EVIDENCE REFERENCE:

Exhibit 8, Tab 2, Schedule 3, Attachment B (system losses plan)

QUESTION(S):

a) Hydro Ottawa committed to endeavouring to maintain a five-year average total system loss below the target of 3.02%. Please provide what the five-year average was. Please confirm whether the figures include upstream transmission losses. For the target and the actual figure, please indicate how they were calculated and what they include. In doing so, please except the wording from the settlement agreement on the losses calculations.
b) If it was higher, than 3.02%, please discuss any factors within Hydro Ottawa's control that could be cost-effectively implemented to achieve lower losses.

RESPONSE(S):

Please note that Hydro Ottawa has added parts for each individual question to part a) for better future reference.

a)

i) The five-year average target of 3.02% was to be endeavoured through cost-effective measures over the five-year period of 2021-2025, and this period has not concluded.

As part of interrogatories, Appendix 2-R - Loss Factors, has been updated to include 2024 Historical data as Attachment 1-Staff-1(A) - Chapter 2 Appendices. Tables 1 and 2 of

Schedule 8-2-3 - Loss Adjustment Factors have been updated below as Tables A and B to include 2024 and the current five-year average.

Table A - Losses as a Percentage of Higher Value[1] Purchases for the Previous Five Years[2]

	2020	2021	2022	2023	2024	5 Year Average
Electricity Purchases (MWh)	7,267,291	7,321,389	7,430,308	7,470,628	7,551,358	7,408,195
Electricity Sales (MWh)	7,039,429	7,109,740	7,204,030	7,239,276	7,311,591	7,180,813
Losses (MWh)	**227,862**	**211,649**	**226,277**	**231,352**	**239,767**	**227,382**
Losses %	**3.14%**	**2.89%**	**3.05%**	**3.10%**	**3.18%**	**3.07%**

Table B – Losses as a Percentage of Lower Value[3] Purchases for the Previous Five Years[4]

	2020	2021	2022	2023	2024	5 Year Average
Electricity Purchases (MWh)	7,226,159	7,274,550	7,405,597	7,440,274	7,516,264	7,372,569
Electricity Sales (MWh)	7,039,429	7,109,740	7,204,030	7,239,276	7,311,591	7,180,813
Losses (MWh)	**186,730**	**164,810**	**201,567**	**200,999**	**204,673**	**191,755**
Losses %	**2.58%**	**2.27%**	**2.72%**	**2.70%**	**2.72%**	**2.60%**

ii) Assuming the transmission losses referred to are the losses incurred by Hydro One's transmission network, then no, the figures upstream do not include the transmission losses.

iii) The 3.02% target was set based on the target originally set in the *Plan to Reduce Losses by 5% (2006)*[5]. When the losses plan was submitted in 2006, the 5% reduction was detailed as a kWh amount of losses to be reduced.[6] During the technical conference of Hydro Ottawa's

[1] Sum of "With losses" value from IESO and Hydro One monthly settlement invoices, and embedded generation
[2] Totals may not match due to rounding.
[3] Sum of Purchased kWh "without losses" from IESO based on metered data on the low voltage side of the transformer at interface with transmission grid, Hydro One "without losses" kWh obtained from monthly settlement invoices and embedded generation
[4] Totals may not match due to rounding.
[5] Hydro Ottawa Limited, *A Plan to Reduce Line Losses by 5%* EB-2005-0381 (July 11, 2006)
[6] Ibid, Page 7

2021-2025 Custom IR proceeding, the response to undertaking JT3.15[7] converted the kWh reduction target to a losses percentage based on the historical average loss percentage for 2001-2005. Due to the age of the data, Hydro Ottawa cannot confirm details on what was included or excluded in the 2001-2005 kWh purchases or sales amounts used to determine the loss factor percentage at that time.

iv) The excerpt from the 2021 Settlement Agreement regarding the system losses target details:

> *"(iii) Distribution Losses*
>
> *Between 2021 and 2025, Hydro Ottawa shall endeavour to maintain its five-year average total system losses[8] below the target of 3.02% set by the OEB in EB-2005-0381 through cost-effective measures."[9]*

b) Hydro Ottawa is committed to proactively managing system losses. While the agreed five-year of 2021-2025 has not yet ended, we are actively implementing all cost-effective solutions identified through our distribution system loss analysis, including recommendations from third-party consultants, CIMA+. Please see response to interrogatory 8-ED-39 b).

Our approach to loss mitigation is outlined in interrogatory response 8-ED-39 g), and Hydro Ottawa continues to fulfill our commitment to endeavour to meet the loss targets.

[7] Hydro Ottawa Limited, 2021-2025 Custom Incentive Rate-Setting, Technical Conference Undertaking Responses Day 3, (July 29, 2020), pages 17-18.
[8] "Total System Losses" refers to the losses as a percentage of purchases, as shown in Table 1 of UPDATED Exhibit 8-9-1: Loss Adjustment Factors. To provide additional clarity, the "Electricity Purchases" shown in Table 1 refer to the "Wholesale" kWh delivered to the distributor (higher value) as shown in UPDATED Attachment 8-9-1(A): OEB Appendix 2-R - Loss Factors, and therefore include supply losses. For further clarity, this includes losses in the distributor's system and transmission losses upstream of the distributor.
[9] Hydro Ottawa Limited, *2021-2025 Custom Incentive Rate-Setting Approved Settlement Agreement*, EB-2019-0261 (September 18, 2020). Page 22

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

8-ED-43

EVIDENCE REFERENCE:

Exhibit 8, Tab 2, Schedule 3, Attachment B (system losses plan)

QUESTION(S):

a) Please provide the forecast losses (kWh), losses at peak (kW), and cost of losses to customers for each year in the rate term and total over the full term. Please also provide the same information for the past five years (actuals). Please include the underlying calculations, inputs, and assumptions.

RESPONSE(S):

a) Hydro Ottawa does not forecast losses or track the losses at peak (kW).

The Ontario Energy Board also does not have a framework for local distribution companies to forecast system losses, however Hydro Ottawa has used the same method from interrogatory response ED-4 from Hydro Ottawa's 2021-2025 proceeding[1] to provide the requested information.

The Historical 2020-2024 losses (MWh) and cost of losses, have been calculated in Table A below. Hydro Ottawa has provided calculations for 2025 Bridge and 2026-2030 Test Years based on the revenue load forecast sales MWh submitted in Table 3-5 of Attachment 3-1-1(B) - Hydro Ottawa Long-Term Electric Energy Forecast and applying the historical average loss

[1] Hydro Ottawa Limited, *2021-2025 Custom Incentive Rate-Setting Distribution Rate Application*, EB-2019-0261 (February 10, 2020). OEB - EB-2019-0261, Interrogatory Response IRR ED-4

percentages provided in the interrogatory response here. The Bridge and Test Year cost of electricity is based on the Commodity and Global Adjustment rates detailed in Tables 6 and 8 of Schedule 2-3-1 - Working Capital Allowance.

For comparison, the Urban/Rural Peer Group[2] average has been included in Table A. To provide a stable comparison, Hydro Ottawa's Historical, Bridge and Test year Purchases MWh were used for all utilities. The 2020-2023 historical loss percentage[3] for each utility was applied to determine their respective annual MWh losses and for the Bridge and Test years their average loss percentage from 2019-2023 was applied.

[2] See Schedule 1-3-3 - Benchmarking page 4 for Peer Group details
[3] Calculated by using the Total Supply kWh (2.1.5.3) and subtracting the Total Delivered kWh (2.1.5.4) as reported through RRRs

Hydro Ottawa notes this is not a forecast of expected MWh losses or costs, solely information provided to answer the requested interrogatory based on available data inputs calculated or forecasted for other purposes in the Application.

Table A - Hydro Ottawa Losses

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
A -Electricity Purchases (MWh)	7,267,291	7,321,389	7,430,308	7,470,628	7,551,358	7,653,876	7,685,707	7,710,811	7,784,066	7,834,897	7,885,381
B - Electricity Sales (MWh)	7,039,429	7,109,740	7,204,030	7,239,276	7,311,591	7,418,918	7,449,773	7,474,106	7,545,112	7,594,383	7,643,318
C - Losses (MWh) = A-B	227,862	211,649	226,277	231,352	239,767	234,957	235,934	236,705	238,954	240,514	242,064
D - Losses % = C/A	3.14%	2.89%	3.05%	3.10%	3.18%	3.07%	3.07%	3.07%	3.07%	3.07%	3.07%
E - All-In Cost of Electricity in Ottawa ($/Mwh) – Annual Average	$ 123.88	$ 103.95	$ 100.22	$ 96.62	$ 103.45	$ 99.37	$ 105.45	$ 107.64	$ 109.88	$ 112.17	$ 114.50
F - Cost of Losses ($'000s) = C x E	**$ 28,229**	**$ 22,002**	**$ 22,678**	**$ 22,354**	**$ 24,805**	**$ 23,348**	**$ 24,879**	**$ 25,479**	**$ 26,256**	**$ 26,978**	**$ 27,716**
Peer Group Average - Cost of Losses ($'000s)	**$ 34,893**	**$ 29,813**	**$ 27,872**	**$ 29,461**	**$ 30,546**	**$ 29,340**	**$ 31,136**	**$ 31,782**	**$ 32,444**	**$ 33,120**	**$ 33,808**

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

8-ED-44

EVIDENCE REFERENCE:

Exhibit 8, Tab 4, Schedule 2 (Generation Charges)

QUESTION(S):

a) Please provide a table showing the generation charges of Hydro Ottawa compared to those of Toronto Hydro, Alectra, and Hydro One

.

RESPONSE(S):

a) Hydro Ottawa's 2025 Approved and 2026 proposed generation service charges along with the 2025 Approved rates for Toronto Hydro, Hydro One, and Alectra rate zones have been provided in Table A below.

Table A - Generation Service Charges

Classification	Hydro Ottawa - 2025 Approved	Hydro Ottawa - 2026 Proposed	Hydro One	Toronto Hydro	Alectra - Brampton Rate Zone	Alectra - Enersource Rate Zone	Alectra - Guelph Rate Zone	Alectra - Horizon Rate Zone	Alectra - PowerStream Rate Zone
MicroFIT	$ 16.00	$ 11.00	$ 5.00	$ 4.49	$ 5.00	$ 5.00	$ 5.00	$ 5.00	$ 5.00
FIT	$ 84.00	$ 87.00	-	-	-	-	-	-	-
HCI, RESOP, Other Energy Resource	$ 347.00	$ 266.00	-	-	-	-	-	-	-
Net-Metering	$ 16.00	-	-	-	-	-	-	-	-
Distributed Generation (DGen)	-	-	$ 199.26	-	$ 126.48	-	-	-	-
Energy From Waste	-	-		-	$ 76.75	-	-	-	-

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

8-ED-45

EVIDENCE REFERENCE:

Exhibit 8 (rates)

QUESTION(S):

a) Please provide a table showing the load factor for the past five years and the forecast load factor for the next five years.
b) Does Hydro Ottawa agree that the higher the load factor, the more efficiently its system is being used, and the lower the cost of the distribution and transmission system on a $/MWh basis? Please explain the answer.
c) Please discuss how increased off-peak electricity demand could potentially assist in lowering volumetric distribution charges (i.e. charges based on $/kWh).
d) What additional steps could Hydro Ottawa take to increase the load factor, such as encouraging increased off-peak electricity demand (i.e. electrification of transportation, etc.)?

RESPONSE(S):

a) Please see Table A for the load factor for the past five years as calculated for RRR 2.1.5.5 based on total system load without embedded generation and Bridge and Test Years based on system peak values forecast by Itron.

Table A - Load Factor %

	Year	Load Factor (%)
Historical	2020	77%
	2021	80%
	2022	85%
	2023	82%
	2024	79%
Bridge	2025	78%
Test	2026	78%
	2027	77%
	2028	77%
	2029	77%
	2030	77%

b) Hydro Ottawa concurs that an improved load factor enhances system utilization efficiencies. However, Hydro Ottawa cannot confirm a $/MWh decrease is associated with an increased load factor. This is due to region-specific needs, meaning improved infrastructure utilization in one area may not fully negate the need for capital investments in another. Furthermore, the feasibility of increasing the load factor to a certain amount cannot be precisely determined, since it's driven by customers' time-of-use, making it impossible to guarantee the elimination of capital projects to address capacity needs. Lastly, enhanced infrastructure utilization does not remove the necessity to replace end-of-life infrastructure, and therefore would not directly result in less capital spending and thus a decreased $/MWh at the distribution level. Hydro Ottawa is not a transmission company so cannot comment on $/MWh decreases with respect to the transmission system.

c) Please note the response to this question is not simplistic and would require an assessment of planning capacity impact. The question also requests an understanding related to reduced demand (kW) however provides a $/kWh based charge, these two different variable billing

methods have different customer impacts related to demand. Lastly, any increase or decrease in costs would also impact fixed charges.

With this in mind, increased off-peak electricity demand could potentially assist in lower distribution charges if the resulting increased off-peak demand resulted in the need for less asset investment (including extending the life of assets). While increased off-peak electricity demand that does not reduce asset investment or increases asset investment, could potentially increase distribution charges.

d) See response to b). Hydro Ottawa continues to support the offering of provincial wide programs which encourage off-peak electricity demand such as Ultra-Low Overnight (ULO) rates and the commercial ICI program. In addition, demand-side management programming can help to shift load off peak, which has the potential to increase load factor. To that end, Hydro Ottawa has executed the Electricity Demand-Side Management agreement with the IESO and is committed to support the enduring provincial eDSM framework in a supporting role, beginning with the initial 2025-2027 eDSM plan[1]. Furthermore, Hydro Ottawa is planning to deploy a Non-Wires Customer Solutions Program (NWCSP) in a targeted area. The NWCSP is a portfolio of energy efficiency, DER and demand response programming for both residential and commercial customers. For additional details about the NWCSP, refer to interrogatory response 2-Staff-67.

[1]Independent Electricity System Operator,"2025-2027 Electricity Demand Side Management Program Plan (with Beneficial Electrification)"
https://ieso.ca/-/media/Files/IESO/Document-Library/eDSM/2025-2027-DSM-Plan-with-Beneficial-Electrification.pdf

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

1-ED-46

EVIDENCE REFERENCE:

Exhibit 8 (rate design)

QUESTION(S):

a) Please discuss the benefits of co-incident peak demand charges in encouraging behaviour that lowers system costs, such as peak shaving and peak shifting.
b) Please provide a table listing the demand charges for each customer class and whether they are co-incident peak demand charges.
c) Would Hydro Ottawa consider increasing the proportion of the rates that it charges through co-incident peak demand charges in order to encourage more efficient use of the electricity system?

RESPONSE(S):

a) Although not a direct co-incident peak demand charge, the ICI program in Ontario was introduced by the IESO to incent large commercial and industrial customers to shift demand from the Ontario system wide co-incident peaks (CP) to other times to assist the province in deferring the need for new investments[1]. Should this program work as intended and the need for investments are deferred as a result of reduced capacity on current infrastructure during peak periods, Ontario rate payers could benefit from the cost savings of deferred investments.

[1] IESO, *Industrial Conservation Initiative Backgrounder and FAQs,* GDE-555 Version 1.0 May 2025 (Page 3)

At this time, Hydro Ottawa is not aware of any analysis completed by the Ontario Energy Board (OEB), IESO, or other industry experts on the benefits of changing the current billing determinant structure of demand based charges from a non-coincident peak (NCP) to CP basis and if it would encourage behavior to lower system costs.

b) Hydro Ottawa does not charge any demand charges on a CP demand basis. All demand charges are billed to customers based on their NCP, although there is the possibility customer billed peaks may coincide with the system CP. Please see the Table A for demand ($/kW) charges below, these charges apply to General Service 50 kW-1,499 kW, General Service 1,500-4,999 kW, Large User, Street Lighting and Sentinel Lighting Class.

Table A - Demand ($/kW) Based Charges

Demand charges ($/kW)
Distribution Volumetric Rate
Low Voltage Service Rate
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery
Rate Rider for Disposition of Deferral/Variance Accounts
Retail Transmission Rate - Network Service Rate
Retail Transmission Rate - Line and Transformation Connection Service Rate

c) Please see response to question b). As part of this application Hydro Ottawa is not seeking approval, nor has completed analysis on changing the billing determinants of demand charges from customers billed peak (NCP) to CP basis.

INTERROGATORY RESPONSES TO ENVIRONMENTAL DEFENCE

1-ED-47

EVIDENCE REFERENCE:

Exhibit 8 (rate design)

QUESTION(S):

a) Does Hydro Ottawa agree with the following conclusion of the following report: EB-2016-0004, Report by Dr. Stanley Reitsma, P. Eng.,[1] :

> "Though geothermal relies on electricity as an input (to power the pump), geothermal system actually reduces electricity demand in the summer, and increases it in the winter, relative to traditional methods of heating and cooling (heating with fossil fuels and cooling with traditional AC systems). For Ontario, a summer peaking jurisdiction, a greater reliance on geothermal would reduce peaking power needs and also reduce surplus baseload generation. Coincidentally, t the load profile of a geo system is similar to the production profiles of Ontario wind energy facilities."[2]
>
> "For the cooling of buildings, Geo HP's use about half the electricity to operate compared to air source heat pumps and AC systems, and, geo's electrical demand doesn't spike as it gets hot outside, since the ground loop temperature remains relatively unchanged. They can reduce the "heat wave" electricity system demand spikes by up to 75%."[3]

b) Does Hydro Ottawa agree that the expansion of geothermal systems would reduce peak demand on Hydro Ottawa's system, on which distribution system capacity is based?

[1] Dr. Stanley Reitsma, P. Eng., Ontario's Low Carbon Future: Geothermal Heat Pumps, March 21, 2016 (http://www.rds.oeb.ca/HPECMWebDrawer/Record/521626/File/document).
[2] *Ibid* p. 5.
[3] *Ibid* p. 6.

c) Does Hydro Ottawa agree that geothermal systems have the capacity to provide important benefits to the electricity distribution system, especially in comparison to traditional baseboard heating?

d) Does Hydro Ottawa agree that the benefits of geothermal systems are not reflected in the distribution costs paid by residential consumers because those charges do not vary based on coincident peak demand?

e) Does Hydro Ottawa agree that increases in heat pumps would assist the City in achieving its GHG reduction targets?

f) Would Hydro Ottawa agree to study the possibility of offering customers with geothermal systems a reduction in their distribution charges that would approximately reflect the benefits those customers provide to the distribution system? Assume the overall rate structure would continue to make Hydro Ottawa whole for its revenue requirement.

g) Please provide Hydro Ottawa's best information on the number and proportion of its customers with (i) electrical, (ii) natural gas, (iii) propane, (iv) oil, (v) wood, and (vi) other kind of space heating.

RESPONSE(S):

a) Hydro Ottawa has not reviewed the report EB-2016-0004 by Dr. Stanley Reitsma, P. Eng.

b) Without additional context, Hydro Ottawa is unable to directly answer the question. Depending on the specific situation, the expansion of geothermal systems could either increase or decrease the impact on Hydro Ottawa's distribution system capacity and peak demand.

c) Geothermal systems typically have a lower demand impact in comparison to traditional baseboard heating.

d) The rate structure for the residential rate class is fully fixed and therefore demand impacts due to any heating systems (either increases or reductions) does not impact the charge between those in the rate class. The design was implemented as part of EB-2012-0410, A New

Distribution Rate Design for Residential Electricity Customers, and as stated in the report was partially implemented to "Enable customers to leverage new technologies" and to "Help customers better understand the value of electricity service."[4]

e) Hydro Ottawa agrees that using heat pumps to replace existing fossil fuel heating options would result in a reduction in green house gas emissions, which aligns with City of Ottawa goals.

f) Hydro Ottawa believes this is a generic policy issue that should be addressed by the OEB, as it appears to be misaligned with the goals of the OEB rate design noted in part (d) of this response.

g) Hydro Ottawa does not require customers to provide information on their specific space heating methods (electrical, natural gas, propane, oil, wood, or other) and therefore cannot provide data on the number and proportion of customers using each type.

[4] Ontario Energy Board, *Board Policy - A New Distribution Rate Design for Residential Electricity Customers*, EB-2012-0401, (April 2, 2015), page 5.