



ORDER NO: NERC/298/2021

**BEFORE THE NIGERIAN ELECTRICITY REGULATORY COMMISSION  
IN THE MATTER OF THE EXTRAORDINARY REVIEW OF MULTI-YEAR TARIFF ORDER (MYTO)  
FOR ENUGU ELECTRICITY DISTRIBUTION PLC (EEDC)**

**TITLE**

1. This regulatory instrument shall be cited as **MULTI-YEAR TARIFF ORDER – 2022 (“MYTO – 2022”)** for Enugu Electricity Distribution Plc (“EEDC”).

**COMMENCEMENT AND TERMINATION**

2. This Order shall take effect from 1<sup>st</sup> January 2022 and shall only be subordinated to a new Tariff Review Order as may be issued periodically by the Nigerian Electricity Regulatory Commission (“NERC” or the “Commission”).

**CONTEXT**

3. Pursuant to the Extraordinary Tariff Review Application and Performance Improvement Plan (“PIP”) filed by EEDC, the Commission approved the MYTO – 2020 “Serviced-Based Tariff” (SBT) effective from 1<sup>st</sup> September 2020 to ensure that rates paid by customers are in alignment with the quality of service to customer clusters as measured by the daily average availability of power supply on 11kV feeders over a two-month reference period. The Commission in Section 14 of the MYTO – 2020 Order NERC/198/2020 provided for consideration of EEDC’s proposed 5-year capital expenditure (“CAPEX”) in its PIP after further review and evaluation of the proposal is duly concluded.
4. Consequently, following the approval of EEDC’s PIP on 30<sup>th</sup> April 2021, the Commission issued the MYTO – 2021 Extraordinary Tariff Order effective from 1<sup>st</sup> July 2021 in consideration of EEDC’s CAPEX proposals over a 5-year plan in line with the approved PIP. Accordingly, this MYTO – 2022 Order restates EEDC’s approved 5-year CAPEX and relevant assumptions applied to forecast revenue requirements and applicable tariffs for the period 2021 – 2026 in line with the MYTO Methodology and Regulations on

Procedure for Electricity Tariff Reviews in the Nigerian Electricity Supply Industry ("NESI").

5. This MYTO – 2022 Tariff Order further considered a review of the Transmission Loss Factor ("TLF") and applied other periodic (semi-annual) changes to "Minor Review Variables" (indices not within the control of licensees) including inflation rates, the foreign exchange rate (NGN/USD), gas price, available generation capacity, and retroactive claw back of unutilised CAPEX provisions.

## OBJECTIVES

6. The objectives of this Order are to –
  - a. Reflect the impact of changes in the projected Minor Review Variables for the period January to December 2021 for the determination of Cost-Reflective Tariffs ("CRT").
  - b. Adjust EEDC's CAPEX for the years 2021 to 2026 in consideration of the approved PIP.
  - c. Ensure sustained improvement in reliability and quality of supply in line with EEDC's CAPEX proposal and PIP commitment.
  - d. Ensure that tariffs payable by customers are commensurate and aligned with the quality and availability of power supply committed to customer clusters by EEDC.
  - e. Ensure that prices charged by EEDC are fair to customers and are sufficient to allow EEDC to fully recover the efficient cost of operation, including a reasonable return on the capital invested in the business, pursuant to the provisions of sections 32(d) and 76 2(a) of Electric Power Sector Reform Act ("EPSRA").
  - f. Provide appropriate incentives to ensure continuous improvement in the performance of the Transmission Company of Nigeria Plc ("TCN") in reducing its network technical losses.
  - g. Implement a framework to manage revenue shortfalls for the year 2022 through a minimum market remittance requirement to account for differences between Cost-Reflective Tariffs ("CRT") and allowed end-user tariffs in the settlement of invoices issued by the Nigerian Bulk Electricity Trading Plc ("NBET") and the Market Operator ("MO").
  - h. Establish the interim payment arrangements and reaffirm the payment securitisation requirement and flow of funds from DisCos to NBET and the MO.
  - i. Steer the market to gradual transitioning to CRT and activation of market contracts in line with power sector reform objectives.

## BASIS FOR THE REVIEW

### 7. Capital Expenditure (“CAPEX”) Programme and Performance Improvement Plan

EEDC applied for an upward review of the CAPEX provisions in its tariffs in November 2019 to support the implementation of its Performance Improvement Plans (“PIP”) over a planning period of 5 years. Pursuant to the request, the Commission held Public Hearings to consider EEDC’s application in February 2020 and monitored the stakeholders’ engagements by EEDC at different locations within its operating area. The Commission, having considered EEDC’s PIP and Extraordinary Tariff Review Application in line with the provision of EPSRA and other relevant regulations, approved on 30<sup>th</sup> April 2021 EEDC’s PIP and CAPEX Programme for the period 1<sup>st</sup> July 2021 to 30<sup>th</sup> June 2026. Table – 1 below provides the annual approved CAPEX for 5 years, while a summary of the approved projects for Year-1 and Year-2 is provided in Table – 2. The detailed project list for years 3 – 5 shall be considered and approved by the Commission during Year 2 taking into account challenges that may have occurred during the implementation of Year 1 and Year 2 projects.

Table – 1: Approved 5-year PIP and CAPEX Programme for EEDC

Year	2021	2022	2023	2024	2025	Total
	Period – 1	Period – 2	Period - 3	Period - 4	Period - 5	
	N’000,000	N’000,000	N’000,000	N’000,000	N’000,000	N’000,000
Annual Approved CAPEX	13,486.5	13,486.5	13,486.5	13,486.5	13,486.5	67,432.3

Table – 2: EEDC’s Approved PIP and CAPEX Programme for 2021 and 2022

Approved PIP	2021	2022
	N’000,000	N’000,000
<b>Total CAPEX</b>	<b>13,486.5</b>	<b>13,486.5</b>
<b>Distribution Network Capex</b>	<b>8,963.0</b>	<b>7,686.2</b>
Construction of 33kV Feeders	1,382.1	2,723.5
Rehabilitation of 33kV Feeders	281.7	2,644.5
Construction of 11kV Feeders	294.3	783.0
Rehabilitation of 11kV Feeders	442.1	21.9
Construction of 0.400kV Feeders	382.7	736.8
Distribution transformers	926.4	114.8
Substation transformers	5,253.6	661.7
<b>ATC&amp;C Loss Reduction Plan (total)</b>	<b>539.8</b>	<b>5,800.3</b>
<b>Customer Service Improvement Plan</b>	<b>713.0</b>	-
<b>IT Investments (SCADA+GIS+ERP+HSE)</b>	<b>1,946.9</b>	-
AMI Network Metering	1,946.9	0.0
Customer Metering Capex	-	-
<b>Network Metering Capex</b>	<b>1,261.4</b>	-
<b>Others (Toolkit, Ladders etc)</b>	<b>62.4</b>	-

## Annual Update of CAPEX Programme and PIP

The approval of the CAPEX Programme and PIP mandates EEDC to provide annual updates to the proposed investment programme during Minor Review of Tariffs. The Commission recognises the need for flexibility in the implementation of approved CAPEX and PIP to accommodate possible modifications to EEDC's service improvement objectives and other emerging market conditions. EEDC may therefore, based on its investment plan, front-load its expenditure in any year to achieve its PIP objectives on critical investment needs, subject to the approval of the Commission. Annual CAPEX provisions that are unutilised in line with the approval requirements shall be clawed back during Minor Reviews of Tariffs in accordance with the requirements of Section 7(a) of Regulations on Procedure for Electricity Tariff Reviews in the NESI.

## 8. MINOR REVIEW INDICES

In line with the subsisting MYTO methodology, the following indices with potential impact on electricity rates were considered. These indices shall be reviewed every 6 months to update the tariffs with changes in the indices as applicable in line with the MYTO Methodology:

- a. **Nigerian Inflation Rate:** The Nigerian inflation rate for the month of November 2021 of 15.40% as obtained from the website of the National Bureau of Statistics ("NBS") was adopted to project the Nigerian inflation rates for the period 2022 – 2026. The actual average monthly inflation rate for the period January 2021 to November 2021 of 16.97% was applied for the retroactive review of tariffs for 2021.
- b. **Exchange Rate:** The relevant data on the Naira/US. Dollar (₦/\$) exchange rate used for this review was based on the "Investors and Exporters ("I and E") FX-Window" of the Central Bank of Nigeria ("CBN"). The closing ₦/\$ exchange rate as of 30<sup>th</sup> November 2021 plus a premium of 1% to result in a ₦415.78/\$1 exchange rate was adopted to project ₦/\$ exchange rate for the period 2022 – 2026. The average ₦/\$ exchange rate for the period 1<sup>st</sup> January 2021 to 30<sup>th</sup> November 2021 plus a premium of 1% to result in a ₦412.17/\$1 was applied for the retroactive review of tariffs for 2021.
- c. **US rate of inflation:** The U.S. inflation rate for the month of November 2021 of 6.8% as obtained from the website of the U.S. Bureau of Labor Statistics was adopted to project the U.S. inflation rates for the period 2022 – 2026. While the actual average monthly inflation rate for the period January 2021 to November 2021 of 4.68% was applied for the retroactive review of tariffs for 2021.
- d. **Available Generation Capacity:** In consideration of periodic reports from the System Operator, a projection of average sent-out generation of 5267MWh/h is adopted for the period 1<sup>st</sup> January 2022 to 30<sup>th</sup> June 2022.

- e. **Gas Price:** The benchmark gas price of US\$2.18/MMBTU, gas transportation cost of US\$0.80/MMBTU, and contracted gas prices outside Domestic Gas Supply Obligation (“DOMGAS”) quantities and based on effective Gas Sale Agreements (“GSAs”) approved by the Commission were adopted.
- f. **CAPEX Adjustment:** In line with the requirements of Section 7(a) of Regulations on Procedure for Electricity Tariff Reviews in the NESI, adjustments were made to TCN and DisCos’ MYTO CAPEX provisions to account for material variances between the actual CAPEX utilisation and MYTO CAPEX provisions.

**9. OTHER CHANGES:**

**a. Review of Transmission Loss Factor (TLF):**

The Commission, having considered the comments received during the consultation process for the review of the Transmission Loss Factor (TLF) in the NESI, has approved, as part of this Extraordinary Tariff Review, as hereunder:

- i. A new benchmark TLF of 7.5% effective from 1st January 2022 to reflect the level of improvement in TLF to support necessary adjustments in the determination of industry tariffs and minimum loss allowances to be considered by generators on the transmission network.
- ii. A TLF reduction trajectory of one percentage point over the next five years to incentivise further improved operational efficiency as provided in Table – 3 below:

Table – 3: TLF Improvement Trajectory 2022 – 2026

Year	2022	2023	2024	2025	2026
Regulated Loss	7.50%	7.25%	7.00%	6.75%	6.50%

**b. Suspension of Returns to be earned on FGN’s 40% share of investments as at handover date effective from January 2022:**

The Federal and State Governments have elected to temporarily forfeit the earnings of Returns on Investment (ROI and Depreciation) on the 40% share of their investment in EEDC as at handover date for the next 5 years to facilitate smooth transitioning to cost-reflective tariffs in NESI.

**c. Suspension of Return to be earned on FGN’s investment in TCN effective from January 2022:**

The Federal Government has elected to temporarily forfeit its earning of Return on Investment (ROI) on its investment in TCN for the next 5 years to facilitate smooth transitioning to cost-reflective tariffs in NESI.

## 10. Summary of Tariff Assumptions and Results

Table 4 below provides a summary of the actual and projections of the minor review indices.

Table 4: Enugu DisCo's Tariff Assumptions

Parameter	Unit	2021	Jan - 2022	Feb-Dec 2022	2023	2024	2025	2026
PA Effectiveness	PA Year	5	-	-	-	-	-	-
Loss Target	%	20.0%	11.31%	11.31%	11.31%	11.31%	9.62%	8.18%
Nigerian Inflation	%	17.0%	15.40%	15.40%	15.4%	15.4%	15.4%	15.4%
US Inflation	%	4.7%	6.8%	6.8%	6.8%	6.8%	6.8%	6.8%
Exchange Rate N/\$	N	412.2	415.8	415.8	415.8	415.8	415.8	415.8
Transmission Loss Factor	%	8.05%	7.50%	7.50%	7.25%	7.00%	6.75%	6.50%
Energy Delivered to DisCo	GWh	2,839	302	3,323	3,782	4,021	4,304	4,620
Energy Delivered to DisCo	MWh/h	324	414	414	432	459	491	527
Generation Cost	N/kWh	26.5	27.5	27.5	28.0	28.5	29.1	29.6
Transmission & Admin Cost	N/kWh	6.4	5.2	5.2	5.3	5.4	5.5	5.5
End-User Cost Reflective Tariff	N/kWh	57.2	50.8	50.8	52.5	53.8	52.7	53.1
End-User Allowed Tariffs	N/kWh	47.7	50.14	50.8	52.5	53.8	52.7	53.1
Tariff Shortfall	N'000,000	21,375	184	0	0	0	0	0
Minimum Remittance	%	71.6%	97.8%	100.0%	100.0%	100.0%	100.0%	100.0%



## 11. Revenue Requirement

Table – 5 below provides a summary of the key building blocks that summed up to the projected revenue requirement of EEDC for the period 2022 – 2026.

Table 5: Approved Revenue Requirement for EEDC 2022 – 2026

	2022	2023	2024	2025	2026
Load Allocation	9.00%	9.00%	9.00%	9.00%	9.00%
Capacity	50,051	52,956	57,158	62,179	67,868
Opex	51,025	54,603	59,327	64,779	71,136
<u>GenCo cost</u>	<u>101,076</u>	<u>107,559</u>	<u>116,485</u>	<u>126,958</u>	<u>139,005</u>
Opex	4,392	4,967	5,634	6,400	7,278
RO Investment	92	100	126	156	191
<u>Depreciation</u>	<u>8,833</u>	<u>9,158</u>	<u>9,471</u>	<u>9,784</u>	<u>10,097</u>
Transmission cost	13,317	14,225	15,231	16,340	17,566
Opex	2,404	2,556	2,725	2,911	3,116
<u>RO Investment</u>	<u>102</u>	<u>102</u>	<u>109</u>	<u>117</u>	<u>125</u>
System Operation	2,506	2,658	2,834	3,028	3,241
Opex	270	285	301	319	339
<u>RO Investment</u>	<u>12</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>
MO	281	296	314	332	353
Ancillary Service	435	525	646	801	995
Opex	22,236	25,457	29,167	33,439	38,361
RO Investment	13,608	14,769	16,338	18,008	19,741
Depreciation	4,337	4,752	5,155	5,558	5,961
<u>Debt Repayment</u>	<u>5,635</u>	<u>5,811</u>	<u>5,812</u>	<u>484</u>	-
DisCo - Enugu	45,814	50,789	56,472	57,490	64,063
Revenue Required	163,430	176,052	191,982	204,949	225,223

## 12. Approved End-user Tariffs Effective from 1<sup>st</sup> January 2022

Pursuant to Section 76(2) of EPSRA and the Regulations on Procedure for Electricity Tariff Review in NESI, the Commission considered and approved for EEDC the tariffs in Table - 6 below with effect from 1<sup>st</sup> January 2022 and shall remain in force until the issuance of a new Minor Review Order or an Extraordinary Tariff Review Order by the Commission.

Table 6: Approved End-user Tariffs (N/kWh) for EEDC

Category	Sep - Dec 2021	Jan 2022	Feb - Dec 2022	2023	2024	2025	2026
Life-line	4.00	4.00	4.00	4.00	4.00	4.00	4.00
A - Non MD	60.22	60.22	59.02	61.07	62.63	61.29	61.77
A - MD1	56.50	56.50	54.30	57.16	58.62	57.37	57.82
A - MD2	58.00	58.00	54.30	58.73	60.23	58.95	59.41
B - Non MD	59.09	59.09	57.18	59.87	61.40	60.09	60.56
B - MD1	55.00	55.00	53.63	55.59	57.01	55.79	56.22
B - MD2	56.00	56.00	53.63	56.64	58.08	56.84	57.29
C - Non MD	52.89	52.89	52.60	57.68	59.16	57.90	58.35
C - MD1	49.44	49.44	49.10	52.44	53.78	52.63	53.04
C - MD2	50.82	50.82	49.10	54.54	55.93	54.74	55.16
D - Non MD	36.88	36.88	35.68	51.92	53.24	52.11	52.51
D - MD1	49.24	49.24	46.77	49.29	50.55	49.47	49.86
D - MD2	49.24	49.24	46.55	50.34	51.63	50.53	50.92
E - Non MD	36.70	36.70	35.40	35.95	36.87	36.08	36.37
E - MD1	49.24	49.24	46.55	47.90	49.12	48.07	48.45
E - MD2	49.24	49.24	46.50	49.12	50.37	49.30	49.68



### **13. Service Improvement Commitments**

- a. EEDC shall be held accountable for service improvements per commitments under its universal service obligation in the provision of electricity supply to customers. Details of the service improvement commitments made by EEDC to customers in various tariff Bands for the period February - December 2022 is provided in Appendix-2.
- b. In line with the Revised December 2020 Minor Review Order, this Order applied the monthly Economic Merit Order Weighted Average Wholesale Prices for the period January – December 2021, and EEDC's MYTO load allocation based on available generation during the period for the retroactive determination of the applicable revenue requirements and cost-reflective tariffs.

### **14. Service Band Adjustment and Migration**

- a. Where there is a failure to deliver on committed service level by EEDC as measured over a period of two consecutive months, rates payable by all customers in the affected load cluster shall be retroactively adjusted in line with the quality of service delivered over the same period, upon verification by the Commission.
- b. Migration of feeders/customers across service Bands shall be in accordance with the guidelines and/or Order of the Commission.

### **15. Capacity Payment**

The average tariff for EEDC was determined considering the projected energy offtake of the company based on its percentage load allocation in its Vesting Contract executed with NBET. NBET shall continue to invoice EEDC for capacity charge and energy based on its load allocation and metered energy respectively. Where it is established that TCN is unable to deliver EEDC's load allocation, TCN shall be liable to pay for the associated capacity charge. Where EEDC fails to take its entire load allocation due to constraints in its network, EEDC shall be liable to pay the capacity charge as allocated in its Vesting contract and in line with the provisions of the applicable MYTO Order.

### **16. Obligation to off-take day ahead nomination**

EEDC is obligated to off-take energy per its day ahead nomination and load allocation under its vesting contract with the NBET. Where EEDC fails to offtake its load allocation due to constraints in its network, the company is obligated to compensate the Transmission Company of Nigeria Plc for loss of revenue arising from the stranded capacity. Where it is established that TCN is unable to deliver EEDC's load allocation due to constraints on its (TCN's) network, TCN shall be liable to compensate EEDC for the associated loss of revenue.

### **17. Minimum Remittance Threshold for 2021 and 2022**

The Power Sector Recovery Plan ("PSRP") provides for a gradual transition to cost-reflective tariffs with safeguards for the less privileged electricity consumers in the society. The Federal Government, under the PSRP Financing Plan, has committed to funding the revenue gap

arising from the difference between cost-reflective tariffs determined by the Commission and the actual end-user tariffs during the transition to cost-reflective tariffs. The waterfall of market revenues during the transitional period shall be in line with the following:

- a. All DisCos are obligated to settle their market invoices in full as adjusted and netted off by applicable tariff shortfall subject to "regulatory net-offs" approved by the Commission and communicated to the Principal Collection Accounts (PCA) Settlement Administrator.
- b. **Regulatory Net-offs are specific directives** issued by the Commission to the PCA Settlement Administrator on net-offs (+/-) in a fixed sum requiring no calculation applied to EEDC's minimum remittance obligations to the MO or the NBET for specific number of months to accommodate financial offsets by market participants and/or amortization of deferred assets" as approved by the Commission.
- c. All FGN intervention from the PSRP Financing Plan and budgetary appropriation for funding tariff shortfall shall be applied through NBET and MO to ensure 100% settlement of market invoices as issued by Market Participants.
- d. The Commission has computed and recognised the sum of NGN248.5billion as the tariff shortfall for EEDC for the years 2015 – 2020. The Federal Government is finalising the processes of transferring the accrued liabilities arising from tariff shortfalls in the financial records of EEDC to the Nigeria Electricity Liability Management Company ("NELMCO").
- e. All funds retained by EEDC as represented by the excess of market remittance shortfalls over tariff shortfall shall be recovered as a full liability of EEDC, including applicable interest thereon, in line with the provisions of the Supplementary TEM Order, the Market Rules, and respective industry contracts with the Market Operator and NBET.
- f. The minimum market remittance threshold for EEDC is determined after deducting the revenue deficit arising from tariff shortfall from invoices issued by NBET for energy delivered to EEDC in line with its Vesting Contract.
- g. EEDC shall be availed the opportunity to earn its revenue requirement only upon fully meeting the following payment obligations:
  - i. Repayment of CBN-NEMS facility.
  - ii. 100% settlement of MO's invoice subject to "regulatory net-offs" approved by the Commission.
  - iii. Full settlement of Minimum Remittance Requirement of NBET's monthly invoices being the minimum remittance threshold prescribed in this Order plus/minus "regulatory net-offs" approved by the Commission.
- h. EEDC shall be liable to relevant penalties/sanctions for failure to meet the minimum remittance requirement in any payment cycle under the terms of its respective

contracts with NBET, MO, and the provisions of the Market Rules and Supplementary TEM Order.

- i. EEDC shall maintain an adequate securitisation for energy off-take in line with the provisions of the Market Rules.
- j. EEDC shall settle their market invoices under the minimum market remittance thresholds as provided in Table 7 effective 1<sup>st</sup> January 2022. All settlements are subject to regulatory net-offs as may from time to time be issued/communicated to the PCA Administrator by the Commission.

Table 7: EEDC's Minimum Remittance Table


Head	Subhead	2021	Jan 2022	Feb – Dec 2022
		N'000,000	N'000,000	N'000,000
Revenue Required	NEMSF	4,931	470	5,165
	GenCo Invoice	75,336	8,299	91,284
	TCN & Admin Services	18,251	1,568	17,246
	DisCo	31,340	3,283	36,116
	Total	129,859	13,619	149,811
Allowed Recovery		108,484	13,435	149,811
Tariff Shortfall		21,375	184	-
Minimum Remittance Obligation	NEMSF	4,931	470	5,165
	NBET Minimum Remittance	53,961	8,114	91,284
	MO Minimum Remittance	18,251	1,568	17,246
	DisCo	31,340	3,283	36,116
	Total Distribution	108,484	13,435	149,811
Minimum remittance to NBET		71.63%	97.8%	100.0%
Minimum remittance to MO		100%	100%	100%

#### 18. Effective Date

This Order shall be effective from 1<sup>st</sup> January 2022.

Dated this 29<sup>th</sup> Day of December 2021

  
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 Sanusi Garba  
 Chairman

  
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 Musiliu O. Oseni  
 Vice Chairman

*Appendix – 1: EEDC's Customer Classifications*

Service Bands	New Tariff Class	Description
Lifeline	R1	Life-Line customers with energy consumption of not more than 50kWh/month
A (minimum of 20hrs/day)	A – Non-MD	Customers with single or three-phase connection located within <b>Band – A</b> Service Level Feeders
	A – MD 1	Customers with LV Maximum Demand connection located within <b>Band – A</b> Service Level Feeders
	A – MD 2	Customers with MV/HV Maximum Demand (11/33kV) connection located within <b>Band – A</b> Service Level Feeders
B (minimum of 16hrs/day)	B – Non-MD	Customers with single or three-phase connection located within <b>Band – B</b> Service Level Feeders
	B – MD 1	Customers with LV Maximum Demand connection located within <b>Band – B</b> Service Level Feeders
	B – MD 2	Customers with MV/HV Maximum Demand (11/33kV) connection located within <b>Band – B</b> Service Level Feeders
C (minimum of 12hrs/day)	C – Non-MD	Customers with single or three-phase connection located within <b>Band – C</b> Service Level Feeders
	C – MD 1	Customers with LV Maximum Demand connection located within <b>Band – C</b> Service Level Feeders
	C – MD 2	Customers with MV/HV Maximum Demand (11/33kV) connection located within <b>Band – C</b> Service Level Feeders
D (minimum of 8hrs/day)	D – Non-MD	Customers with single or three-phase connection located within <b>Band – D</b> Service Level Feeders
	D – MD 1	Customers with LV Maximum Demand connection located within <b>Band – D</b> Service Level Feeders
	D – MD 2	Customers with MV/HV Maximum Demand (11/33kV) connection located within <b>Band – D</b> Service Level Feeders
E (minimum of 4hrs/day)	E – Non-MD	Customers with single or three-phase connection located within <b>Band – E</b> Service Level Feeders
	E – MD 1	Customers with LV Maximum Demand connection located within <b>Band – E</b> Service Level Feeders
	E – MD 2	Customers with MV/HV Maximum Demand (11/33kV) connection located within <b>Band – E</b> Service Level Feeders

*AND*



Appendix – 2: EEDC's Service Level Commitments

Service Level Proposal for Feb - Jun 2022						
Tariff Band	Feeder Name	Minimum Duration of Supply (Hrs/Day)	Average Frequency of Interruptions Per Day	Average Duration of Interruptions	Average Response time to calls (mins)	Average Response time to resolving complaints (Hrs)
A	OCHUDO CITY 1	20.0	1.08	5.04	9.00	37.75
A	COCA-COLA	20.0	0.14	9.95	9.00	45.12
A	NEW NNPC 33KV	20.0	1.06	0.00	9.00	45.12
A	UGWOGO 33KV	20.0	0.85	1.61	9.00	45.12
A	ABA-OWERRI 33KV	20.0	0.44	3.91	9.00	33.45
A	UKWA 33KV 05	20.0	0.44	3.91	9.00	33.45
A	ENUGU UKWU 33KV	20.0	0.81	3.26	9.00	37.26
A	SECRETARIAT	20.0	1.28	3.78	9.00	37.26
A	ITUKU OZALLA 33KV	20.0	0.72	2.46	9.00	43.50
A	UGWUAI GARIKKI 33KV	20.0	0.91	2.69	9.00	43.50
A	UNN 11KV	20.0	0.36	5.01	9.00	44.02
A	WILSON 11KV	20.0	0.58	2.56	9.00	44.02
A	E AMOBI 33KV	20.0	0.22	4.63	9.00	47.06
A	GCM 11KV	20.0	0.22	0.00	9.00	47.06
A	GCM-UGA 33KV	20.0	0.43	1.60	9.00	47.06
A	GOLDEN OIL 11KV	20.0	0.20	3.86	9.00	47.06
A	INTERFACT 11KV	20.0	0.56	1.30	9.00	47.06
A	IUNT 11KV	20.0	0.14	4.93	9.00	47.06
A	PPI 11KV	20.0	0.02	11.09	9.00	33.62
A	ABAKALIKI ROAD 11KV	20.0	0.49	2.05	9.00	36.05
A	GOLF 11KV	20.0	1.97	2.15	9.00	36.05
A	GOVERNMENT HOUSE 11KV	20.0	0.27	2.95	9.00	36.05
A	GOVERNMENT HOUSE 33KV	20.0	0.27	2.95	9.00	36.05
A	INDEPENDENCE LAYOUT 33KV	20.0	0.40	1.54	9.00	36.05
A	KINGSWAY LINE 1 33KV	20.0	0.57	1.20	9.00	36.05
A	KINGSWAY LINE 2 33KV	20.0	0.55	1.93	9.00	36.05
A	OJI WATERWORKS 33KV	20.0	0.14	4.28	9.00	36.05
A	PRESIDENTIAL 11KV	20.0	2.60	1.95	9.00	36.05
A	AIRPORT 33KV(OWERRI)	20.0	2.66	1.01	9.00	36.86
A	OWERRI 3 33KV	20.0	1.27	0.93	9.00	36.86
A	AFARA 33KV	20.0	0.68	1.98	9.00	41.07
A	CBN 33KV(UMUAHIA)	20.0	1.05	2.55	9.00	41.07
A	GOLDEN GUINEA 11KV	20.0	1.53	2.19	9.00	41.07

**Service Level Proposal for Feb - Jun 2022**

<b>Tariff Band</b>	<b>Feeder Name</b>	<b>Minimum Duration of Supply (Hrs/Day)</b>	<b>Average Frequency of Interruptions Per Day</b>	<b>Average Duration of Interruptions</b>	<b>Average Response time to calls (mins)</b>	<b>Average Response time to resolving complaints (Hrs)</b>
A	AFIKPO 33KV	20.0	0.32	4.86	9.00	37.75
A	INDUSTRIAL ABAKALIKI	20.0	1.58	3.12	9.00	37.75
A	NIKE LAKE 11KV	20.0	0.83	3.25	9.00	45.12
A	POLEMA 11KV	20.0	1.34	2.73	9.00	33.45
A	UNIZIK	20.0	0.55	4.93	9.00	37.26
A	DOZZY 11KV	20.0	0.99	4.85	9.00	47.06
A	ALBEN 11KV	20.0	0.34	4.48	9.00	33.62
A	ARMY BARRACKS 33KV	20.0	0.52	3.15	9.00	33.62
A	NICCUS 33KV	20.0	0.50	6.27	9.00	33.62
A	ARTISAN 11KV	20.0	1.71	2.87	9.00	36.05
A	CHIME AVENUE 11KV	20.0	1.75	2.74	9.00	36.05
A	COAL CAMP 11KV	20.0	1.78	5.05	9.00	36.05
A	NEW HAVEN 11KV	20.0	2.39	2.32	9.00	36.05
A	ONITSHA ROAD 11KV	20.0	1.61	2.50	9.00	36.05
A	POWER HOUSE 11KV	20.0	2.22	1.91	9.00	36.05
A	3-3, 33KV	20.0	0.81	5.16	9.00	30.78
A	RESEARCH 11KV	20.0	0.96	4.23	9.00	41.07
A	UBAKALA 33KV	20.0	0.81	5.16	9.00	41.07
A	ABAKALIKI TOWNSHIP	20.0	1.45	3.35	9.00	37.75
A	AZUIYIOKWU	20.0	1.58	3.38	9.00	37.75
A	UDEMEZUE	20.0	1.56	3.40	9.00	37.75
A	9TH MILE INDUSTRIAL 11KV	20.0	2.89	3.38	9.00	45.12
A	DHAMIIJA, 11KV	20.0	2.82	2.99	9.00	45.12
A	EMENE INDUSTRIAL 33KV	20.0	0.40	3.08	9.00	45.12
A	EMENE 1, 11KV	20.0	2.09	2.26	9.00	45.12
A	PHASE 6, 11KV	20.0	2.25	2.40	9.00	45.12
A	ARMY 11KV AWKUNANAW	20.0	1.89	2.76	9.00	43.50
A	UNEC 11KV	20.0	1.77	2.59	9.00	43.50
A	CBN TEE OFF ON OGUTA 33KV(NEW OWERRI)	20.0	0.36	7.04	9.00	35.15
A	HABOUR 11KV	20.0	0.68	7.61	9.00	47.06
A	PREMIER 11KV	20.0	1.20	3.91	9.00	47.06
A	ABAKPA 1, 11KV	20.0	3.57	2.93	9.00	45.12
A	ABAKPA 2, 11KV	20.0	3.42	3.07	9.00	45.12
A	EMENE INDUSTRIAL 33KV -2	20.0	0.15	4.46	9.00	45.12
A	EMENE 3, 11KV	20.0	2.73	3.96	9.00	45.12
A	NOWAS, 11KV	20.0	2.61	3.75	9.00	45.12
A	AWKA INDUSTRIAL	20.0	0.92	5.29	9.00	37.26



**Service Level Proposal for Feb - Jun 2022**

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A	IFITE	20.0	1.51	6.38	9.00	37.26
A	GARIKI 11KV	20.0	1.98	2.45	9.00	43.50
A	SATELLITE 11KV	20.0	2.28	3.79	9.00	43.50
A	IRETE INDUSTRIAL 11KV	20.0	1.96	6.19	9.00	35.15
A	ABA OVERHEAD 33KV	22.0	0.34	3.16	9.00	74.84
A	NEW GOVERNMENT HOUSE, 11KV	20.0	0.29	7.79	9.00	37.75
A	TCN AUXILIARY	23.0	0.39	3.94	9.00	43.50
A	ALEX MBAISE	21.0	0.56	6.97	9.00	55.89
A	GOLDEN OIL 33KV	22.0	0.14	4.46	9.00	47.06
B	NNEWI - OBA 33KV	16.0	1.18	8.66	9.00	31.19
B	OBOSI - ORAIFITE 33KV	16.0	0.39	9.49	9.00	31.19
B	ABA UMUAHIA 33KV	16.0	1.58	3.12	9.00	74.84
B	IGI 33KV	16.0	1.58	1.28	9.00	74.84
B	MBAISE 33KV	16.0	1.10	2.19	9.00	55.89
B	CONCORD 11KV	16.0	2.70	1.86	9.00	35.15
B	PORTHARCOURT 11KV	16.0	3.54	1.20	9.00	35.15
B	NNEWI INDUSTRIAL 33kv	16.0	0.55	8.16	9.00	31.19
B	ARMY BARRACKS 11KV(OGIDI)	16.0	0.70	5.46	9.00	33.62
B	AWKA MAIN 11KV	16.0	1.95	4.29	9.00	37.26
B	ENUGWU-AGIDI	16.0	1.78	5.06	9.00	37.26
B	UDOKA 11 KV	16.0	1.94	4.64	9.00	37.26
B	ACHARA LAYOUT 11KV	16.0	1.26	3.62	9.00	43.50
B	NSUKKA TOWNSHIP 11KV	16.0	2.64	3.28	9.00	44.02
B	ONUIYI 11KV	16.0	1.55	3.44	9.00	44.02
B	WHALF 11KV	16.0	1.03	6.61	9.00	47.06
B	ENUGU GRA 11KV	16.0	2.46	3.61	9.00	36.05
B	HOUSING 11KV	16.0	1.43	3.74	9.00	30.78
B	ABAKPA 3 11KV	16.0	2.73	4.31	9.00	45.12
B	AMAORJI 11KV	16.0	2.50	4.57	9.00	45.12
B	EMENE 2,11KV	16.0	2.29	4.41	9.00	45.12
B	AMANSEA 11KV	16.0	1.40	6.95	9.00	37.26
B	OKPUNO 11KV	16.0	2.16	4.80	9.00	37.26
B	AMECHI UWANI 11KV	16.0	2.38	4.79	9.00	43.50
B	TOP LAND 11KV	16.0	2.06	5.91	9.00	43.50
B	CAMPUS 11KV	16.0	1.99	4.87	9.00	44.02
B	IYIOWA 11KV	16.0	1.39	7.74	9.00	47.06

**Service Level Proposal for Feb - Jun 2022**

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B	MGBEMENA 11KV	16.0	1.61	7.74	9.00	33.62
B	MARYLAND 11KV	16.0	2.15	4.57	9.00	36.05
B	PRISONS 11KV	16.0	2.15	4.78	9.00	36.05
B	IWEKA 11KV	16.0	1.59	7.25	9.00	30.78
B	MARKET 11KV	16.0	1.50	7.30	9.00	30.78
B	NKWELLE 11KV	16.0	2.26	5.09	9.00	30.78
B	NSUGBE 11KV	16.0	2.27	4.87	9.00	30.78
B	WOLIWO 11 KV	16.0	1.23	9.15	9.00	30.78
B	ORLU 33KV(OWERRI)	16.0	0.92	4.31	9.00	36.86
B	AWADA 11KV	18.0	1.91	6.72	9.00	33.62
B	EZEIWEKA 11KV	18.0	1.24	10.05	9.00	33.62
B	NWAZIKI 11KV	18.0	1.53	8.45	9.00	33.62
C	NNEWI - UMUDIM 33kV	12.0	1.18	0.00	9.00	31.19
C	OSSOMALLA 33KV	12.0	0.41	4.24	9.00	47.06
C	3-3 - ABATA, 33KV	12.0	1.77	0.00	9.00	30.78
C	ENUGU AGIDI VILLAGE	12.0	2.98	3.26	9.00	37.26
C	IBAGWA 33KV	12.0	1.15	4.03	9.00	44.02
C	ORBA NSUKKA 33KV	12.0	1.71	5.32	9.00	44.02
C	AGULERI 33KV	12.0	0.56	6.97	9.00	33.62
C	UMUNYA 33KV	12.0	0.70	5.46	9.00	33.62
C	OGUTA 33KV(ORLU)	12.0	1.57	2.70	9.00	28.92
C	OGUTA 33KV(OWERRI)	12.0	1.57	2.70	9.00	36.86
C	YAHE 33KV FDR	12.0	1.08	8.69	9.00	37.75
C	UDI 33KV	12.0	1.08	8.69	9.00	45.12
C	AMECHI 33KV	12.0	2.92	1.72	9.00	43.50
C	AGULU 33KV	12.0	1.27	4.06	9.00	48.60
C	NENI 33KV	12.0	1.19	4.29	9.00	48.60
C	ORUMBA 33KV	12.0	1.54	6.22	9.00	48.60
C	NNEWICHI 11KV	12.0	1.32	4.05	9.00	31.19
C	TEACHING HOSPITAL PRIVATE 11KV	12.0	1.31	5.07	9.00	31.19
C	TEACHING HOSPITAL PUBLIC 11KV	12.0	1.31	5.07	9.00	31.19
C	EHA - AMUFU 33KV	12.0	0.28	15.04	9.00	44.02
C	ATANI WATER WORKS 11KV	12.0	1.78	6.14	9.00	47.06
C	GRA 11KV	12.0	2.20	2.14	9.00	36.86
C	IKENEGBU 11KV	12.0	2.11	2.27	9.00	36.86

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C	AROCHUKWU 33KV	12.0	0.82	10.82	9.00	41.07
C	NKWOEGWU 33KV	12.0	1.48	6.44	9.00	41.07
C	NTIGHA 33KV	12.0	1.25	8.80	9.00	41.07
C	TOWNSHIP 11KV UMUAHIA	12.0	1.54	6.22	9.00	41.07
C	ABA TOWNSHIP 11KV	12.0	1.54	6.22	9.00	74.84
C	ABA-EAST 11 KV	12.0	2.20	2.14	9.00	74.84
C	EH ROAD 6.6KV	12.0	1.48	6.44	9.00	74.84
C	AKPOGA 33KV	12.0	2.30	5.32	9.00	45.12
C	EZEAGU	12.0	4.56	2.98	9.00	45.12
C	NTA 11KV	12.0	2.49	5.23	9.00	45.12
C	OKWE 11KV	12.0	1.67	7.14	9.00	45.12
C	OWERRINTA 33KV	12.0	2.65	3.96	9.00	33.45
C	NIBO	12.0	1.63	6.94	9.00	37.26
C	NAFDAC 11KV	12.0	1.27	5.07	9.00	48.60
C	IBOLO 11KV	12.0	1.35	8.54	9.00	31.19
C	NKWOEDO 11KV	12.0	1.09	8.42	9.00	31.19
C	OTOLO 11KV	12.0	2.20	4.48	9.00	31.19
C	AKU (LEJJA) 11KA	12.0	2.01	5.00	9.00	44.02
C	UGWUOYE 11KV	12.0	2.43	3.94	9.00	44.02
C	FEGGE 11 KV	12.0	1.57	6.52	9.00	47.06
C	HOUSING EBH 11KV	12.0	1.72	5.76	9.00	47.06
C	OKPOKO 11KV	12.0	1.68	6.18	9.00	47.06
C	UGA 11KV	12.0	1.67	6.18	9.00	47.06
C	HILL TOP 11KV	12.0	1.96	5.87	9.00	36.05
C	OJI URBAN 11KV	12.0	1.73	5.48	9.00	36.05
C	INLAND 11KV	12.0	1.35	8.41	9.00	30.78
C	MGBUKA 11KV	12.0	1.26	8.56	9.00	30.78
C	OMAGBA 11KV	12.0	1.11	9.50	9.00	30.78
C	ONITSHA G.R.A 11KV	12.0	1.55	7.58	9.00	30.78
C	ORLU 33KV(ORLU)	12.0	0.92	4.31	9.00	28.92
C	OKIGWE 33KV (OWERRI)	12.0	2.49	5.23	9.00	36.86
C	TOWNSHIP 11KV OWERRI	13.0	2.79	3.52	9.00	36.86
C	ABA ROAD 11KV	14.0	1.56	7.58	9.00	41.07
C	AZIKIWE RD 11KV	15.0	1.11	9.50	9.00	41.07
C	GRA 11KV	12.0	1.56	7.58	9.00	41.07
C	ABOR	12.0	1.17	11.67	9.00	45.12



**Service Level Proposal for Feb - Jun 2022**

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C	AJALI 33KV	12.0	1.76	7.03	9.00	45.12
C	GUINNESS 33KV	12.0	2.79	3.51	9.00	33.45
C	WORLD BANK 11KV ARIARIA	12.0	2.39	5.22	9.00	33.45
C	ABAGANA	12.0	1.27	10.73	9.00	37.26
C	NEW OWERRI 11KV	12.0	2.50	4.66	9.00	35.15
C	WORLD BANK (NEW OWERRI)	12.0	2.09	6.47	9.00	35.15
C	AVENCO 11 KV	12.0	1.45	8.45	9.00	33.62
C	MINAJ 2, 11KV	12.0	1.41	8.75	9.00	33.62
C	NKPOR 11 KV	12.0	1.52	8.30	9.00	33.62
C	TOLL-GATE 11 KV	12.0	1.44	8.34	9.00	33.62
C	UGWUAGBA 11KV	13.0	1.24	10.05	9.00	33.62
C	BIDA 11KV	14.0	1.27	9.29	9.00	30.78
C	NEW OWERRI 11KV (OWERRI)	12.0	2.50	4.66	9.00	36.86
C	NDUME 11KV	12.0	2.81	4.77	9.00	41.07
C	UBAKALA 11KV	12.0	2.78	4.88	9.00	41.07
C	WORLD BANK 11KV UMUAHIA	12.0	1.27	9.30	9.00	41.07
C	ACHI 33KV	12.0	0.56	6.90	9.00	36.05
D	AMECHI-AGBANI 33KV	9.0	2.52	4.00	9.00	43.50
D	NNEWI - AMICHI 33kv	8.0	1.18	4.96	9.00	31.19
D	OBOSI - IHIALA 33KV	8.0	2.75	4.96	9.00	31.19
D	OBOSI - OZUBULU 33KV	8.0	3.09	0.00	9.00	31.19
D	OBOWO 33KV	8.0	1.88	0.00	9.00	55.89
D	AIRPORT 33KV(NEW OWERRI)	8.0	2.66	1.01	9.00	35.15
D	NIMO 11KV	8.0	1.77	7.41	9.00	37.26
D	7-UP 11KV	8.0	2.26	5.39	9.00	74.84
D	ABA BARRACKS 11KV(ABA)	8.0	1.53	7.25	9.00	74.84
D	ABA WATER SIDE 11 KV	8.0	2.13	5.53	9.00	74.84
D	NGWA ROAD 11KV	8.0	2.18	5.04	9.00	74.84
D	OBOHIA 11KV	8.0	3.11	4.30	9.00	74.84
D	OPOBO ROAD 11KV	8.0	2.14	5.81	9.00	74.84
D	PORT HARCOURT ROAD 11KV	8.0	2.59	4.34	9.00	74.84
D	EZILLO	8.0	0.78	13.17	9.00	37.75
D	ISHIEKE 33KV FDR	8.0	2.60	3.74	9.00	37.75
D	ITIGIDI 33KV FDR	8.0	1.25	8.43	9.00	37.75
D	ABA BARRACKS 11KV(ARIARIA)	8.0	1.53	7.25	9.00	33.45
D	ABA INDUSTRIAL 11KV	8.0	2.26	4.27	9.00	33.45

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D	ENUGU UKWU 11KV	8.0	1.67	7.15	9.00	37.26
D	AGULUEZECHUKWU 11KV	8.0	2.08	5.53	9.00	48.60
D	AMUDA 11KV	8.0	0.69	19.65	9.00	48.60
D	EKE MARKET NRI 11KV	8.0	1.59	5.69	9.00	48.60
D	EKWULOBIA MAIN OFFICE 11KV	8.0	1.95	5.59	9.00	48.60
D	OKO POLY 11KV	8.0	2.06	5.91	9.00	48.60
D	UMUNZE 11KV	8.0	1.43	9.44	9.00	48.60
D	URU NRI 11KV	8.0	1.75	5.61	9.00	48.60
D	MINAJ 1, 11KV	8.0	1.56	7.75	9.00	33.62
D	OKIGWE 33KV (ORLU)	8.0	2.49	5.23	9.00	28.92
D	EGBEADA 11KV	8.0	2.68	4.62	9.00	36.86
D	EGBU 11KV	8.0	2.29	5.28	9.00	36.86
D	FUT 11KV	8.0	2.71	4.09	9.00	36.86
D	IFAKALA 11KV	8.0	1.84	6.60	9.00	36.86
D	MBIERI 11KV	8.0	1.92	6.68	9.00	36.86
D	NAZE 11KV	8.0	2.54	4.77	9.00	36.86
D	AMACHARA 11KV	8.0	2.08	6.17	9.00	41.07
D	EKENOBIZI 11KV	8.0	2.06	6.20	9.00	41.07
D	NKWOEGWU 11KV	9.0	2.58	4.96	9.00	41.07
D	ABA GRA 11KV	9.0	1.78	6.52	9.00	33.45
D	ABAYI 11KV	8.0	2.54	5.27	9.00	33.45
D	ARIARIA 11KV	8.0	2.29	5.95	9.00	33.45
D	ASA OKPUAJA 11KV	7.0	1.69	8.04	9.00	33.45
D	OMUMA 11KV	7.0	1.45	8.67	9.00	33.45
D	OSISIOMA 11KV	8.0	2.76	4.84	9.00	33.45
D	MBUTU 11KV	8.0	1.10	12.35	9.00	55.89
D	OBINZE 11KV	9.0	2.27	5.95	9.00	35.15
D	MBANAGU 11KV	10.0	2.04	5.79	9.00	31.19
D	UBAHU 11KV	8.0	1.68	8.11	9.00	31.19
D	URUAGU II, 11KV	11.0	1.44	8.11	9.00	31.19
D	IDEMILI 33KV	9.0	1.27	10.74	9.00	33.62
D	OGIDI 11 KV	9.0	1.48	8.52	9.00	33.62
D	OJOTO 11KV	10.0	1.67	7.80	9.00	33.62
D	OLD UMUAHIA 11KV	8.0	2.84	4.73	9.00	41.07
D	OLOKORO 11KV	10.0	2.63	4.91	9.00	41.07
D	UMUDIKE 11KV	9.0	2.82	4.70	9.00	41.07

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D	EZIOKO 11KV	11.0	2.39	5.22	9.00	48.60
D	OBIANGWU 11KV	8.0	1.88	7.23	9.00	55.89
D	AKPAKUME NZE, 11KV	10.0	0.00		9.00	36.05
E	AMECHI-AWGU 33kV	7.0	1.65	5.84	9.00	43.50
E	NNEWI - AWKA ETITI 33kV	4.0	1.18	4.40	9.00	31.19
E	OBOSI - ULI 33KV	4.0	3.09	0.00	9.00	31.19
E	UKPOR - NNEWI 33kV	4.0	2.75	4.40	9.00	31.19
E	LIMCA, OKIGWE 11KV	4.0	1.25	10.90	9.00	28.92
E	URUALLA CIVC CENTER 11KV	4.0	1.25	10.90	9.00	28.92
E	AIRPORT 33KV(MBAISE)	4.0	2.66	1.01	9.00	55.89
E	CHIATULA 11KV	4.0	0.56	8.71	9.00	33.62
E	ROMANS 11KV	4.0	0.56	8.71	9.00	33.62
E	UKPO 11KV	4.0	1.47	9.12	9.00	37.26
E	NDIOWU 11KV	4.0	1.40	6.83	9.00	48.60
E	OGBUNKA ROAD 11KV	4.0	1.39	9.80	9.00	48.60
E	OKIGWE 33KV (MBAISE)	4.0	2.49	5.23	9.00	55.89
E	UMUAKA 11KV	4.0	2.50	4.31	9.00	28.92
E	ABIRIBA 11KV	7.0	1.55	8.79	9.00	41.07
E	OMOBA 11KV	7.0	1.01	13.47	9.00	74.84
E	URATTA 11KV	5.0	1.69	8.04	9.00	33.45
E	AVUVU 11KV	7.0	1.95	6.96	9.00	55.89
E	EGBEREDE 11KV MBAISE	7.0	1.27	10.74	9.00	55.89
E	NKWOALA 11KV	7.0	1.82	7.48	9.00	55.89
E	UMUOFOR 11KV	7.0	1.70	8.02	9.00	31.19
E	AMAIGBO ROAD. ORLU 11KV	5.0	2.20	6.19	9.00	28.92
E	IHIOMA ROAD. ORLU 11KV	5.0	1.88	7.23	9.00	28.92
E	OWERRI ROAD, ORLU 11KV	5.0	2.25	6.04	9.00	28.92
E	TOWNSHIP, OKIGWE 11KV	5.0	1.25	10.90	9.00	28.92
E	EMEKUKU 11KV	7.0	3.65	3.73	9.00	36.86
E	AMAOGWUGWU 11KV	5.0	2.66	4.87	9.00	41.07
E	ASAGA 11KV	7.0	0.83	16.30	9.00	41.07
E	OHAFA BARRACKS 11KV	7.0	1.88	7.25	9.00	41.07
E	UMUARO 11KV	7.0	2.79	3.51	9.00	74.84
E	NGODO 11KV	7.0	1.88	7.23	9.00	48.60
E	LAGWA 11KV	7.0	1.88	7.23	9.00	55.89
E	UMUIHI 11KV	7.0	2.49	5.45	9.00	55.89