



ORDER/NERC/201B/2020

**BEFORE THE NIGERIAN ELECTRICITY REGULATORY COMMISSION
IN THE MATTER OF THE EXTRAORDINARY REVIEW OF MULTI YEAR TARIFF ORDER 2015
FOR ENUGU ELECTRICITY DISTRIBUTION PLC**

TITLE

1. This regulatory instrument may be cited as the **REVISED MULTI YEAR TARIFF ORDER (MYTO) 2020 for Enugu Electricity Distribution Plc.**

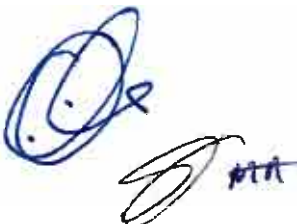
COMMENCEMENT

2. This Order shall take effect from 1st November 2020 and shall cease to have effect on the issuance of a new Minor Review Order or an Extraordinary Tariff Review Order by the Nigerian Electricity Regulatory Commission ("NERC" or the "Commission").

CONTEXT

3. The Commission has reviewed an extra-ordinary tariff review application filed by Enugu Electricity Distribution Plc ("EEDC") seeking approval to review its end-user tariffs in consideration of the impact of inflation, foreign exchange and implementation of its investment plan towards improving service to customers.
4. The Commission, pursuant to sections 32 and 76 of the Electric Power Sector Reform Act ("EPSRA"), issued the MYTO – 2015 Tariff Order in December 2015 to address, amongst other objectives, the provision of cost-reflective tariffs thus ensuring that prices charged by licensees are fair to consumers and are sufficient to allow licensees that operate efficiently to recover the full cost of their activities, including a reasonable return on the capital invested in the business.
5. Section 6 of the MYTO Methodology (Amended) provides for the biannual minor review of tariffs taking into consideration changes in exogenous variables outside the control of operators in the Nigerian Electricity Supply Industry ("NESI"). These variables are the Nigerian and United States inflation rates, NGN/USD foreign exchange rates, gas prices and available generation capacity.
6. Section 9(c) of the "Regulations on Procedure for Electricity Tariff Reviews in the Nigerian Electricity Supply Industry" provides the basis upon which the Commission may accept applications for the conduct of extraordinary tariff reviews.

7. The Commission reviewed the application filed by EEDC taking into consideration the outcome of public consultations held in February - March 2020 and approved end-user tariffs for the period 1st September 2020 to 30th June 2025.
8. Subsequent to the review of the EEDC's application and the outcome of the public consultation, the Commission had vide ORDER/NERC/201/2020, approved end-user tariffs that reflect the impact of changes in macroeconomic parameters on EEDC's revenue requirement and a revised tariff design that aligns rates paid by customers with the quality of service as measured by average availability of power supply over a one-month period. The Order takes cognisance of the varying levels of infrastructural development in the utility's network that is directly attributable to the level of investment which results in customers enjoying different levels of supply in the same network. The Order further seeks to incentivise utilities to invest across their entire networks thus migrating more customers to higher quality of service and ensuring that the rates paid by customers is aligned with service improvements.
9. The Commission further directed EEDC to pursue continuous engagement with its customers through all mediums of public consultations on the committed levels of quality of electricity supply on the basis of monthly average hours of supply per day.
10. Pursuant to the objective of incentivising a continuous improvement of service for all customers, the Order further provides that –
 - a. **there shall be no tariff reviews for customers experiencing an average power supply availability of less than an average of 12-hours per day over a period of one month.**
 - b. unmetered customers within service bands A, B and C thus benefitting from a supply availability in excess of an average of 12hrs per day over a period of one month as affected by the Tariff Order shall be protected by the provisions of the "Order on Capping of Estimated Bills in NESI" and the FGN intervention on accelerated metering of all customers.
 - c. EEDC shall continue to maintain the lifeline tariff of NGN4.00/kWhr for all customers consuming less than 50kWhrs of energy per month as a safeguard for the less privileged members of the society.
11. Following complaints by various consumer/trade associations, civil society groups and labour unions to the Federal Government on the implementation of MYTO-2020, joint consultative meetings were held between the Federal Government of Nigeria ("FGN"), labour unions and other stakeholders to review their submissions on the implementation of rates in the MYTO-2020 Tariff Order.
12. The team representing FGN agreed to a 14-day freeze on the tariffs payable by end-use customers to allow for further consultation with the labour union. This was communicated vide a communique jointly signed by both the representatives of the government and the labour union.



13. Section 33 of EPSRA provides that *"the Minister may issue general policy directions to the Commission on matters concerning electricity, including directions on overall system planning and coordination, which the Commission shall take into consideration in discharging its functions under section 32(2), provided that such directions are not on conflict with this Act or the Constitution of the Federal Republic of Nigeria"*.
14. The Secretary to the Government of the Federation, Minister of Power and other Ministers were part of the FGN team that issued the communique. The Commission duly accept the decision as a general policy direction in accordance with section 33 of EPSRA.
15. Section 22 of the Business Rules of the Commission Regulations 2006 (the "Business Rules") provides that *"the Commission may on its own or on the application of any of the persons or parties concerned, within sixty (60) days of the making of any Decision, direction or Order, reconsider, vary or review such Decision, directions or Orders and make such appropriate Orders as the Commission deems fit"*.
16. The Commission having accepted the policy direction suspended the MULTI YEAR TARIFF ORDER 2020 for EEDC by Order No. NERC/209/2020 dated 28th September 2020. The suspension was for a period of 14-days with effect from 28th September 2020.
17. Subsequent to the conclusion of consultations with the labour unions, the Commission received a policy direction on end-user tariffs intervention from the Minister of Power on 15th October 2020 in accordance with section 33 of EPSRA. The policy direction proposed the reliefs below in tariff setting in NESI for the fourth quarter of 2020 –
 - a. Band A: 10% reduction in the marginal increase experienced due to transition to service-based tariff ("SBT")
 - b. Band B: 10.5% reduction in the marginal increase experienced due to transition to SBT.
 - c. Band C: 31% reduction in the marginal increase experienced due to the transition to SBT.
 - d. Band D: No change.
 - e. Band E: No change.
18. The Commission **HEREBY REVOKES** the NERC Order on Suspension of the Multi Year Tariff Order (MYTO) 2020 for the Electricity Distribution Licensees and the Multi Year Tariff Order 2020 for EEDC.
19. The Commission **HEREBY APPROVES** the REVISED MULTI YEAR TARIFF ORDER (MYTO) 2020 for Enugu Electricity Distribution Plc which addresses the adjustments to the tariffs payable by EEDC's customers in compliance with the policy direction on end-user tariff intervention and the minimum remittance thresholds in accordance with FGN tariffs policy support.



OBJECTIVES

20. This Order seeks to:

- a. 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 EPSRA.
- b. Provide a path to a transition to fully service-based cost-reflective tariffs by July 2021.
- c. Reclassify and disaggregate customers and customer clusters on the basis of EEDC's commitment on quality of service to customer clusters.
- d. Ensure that customer tariffs are commensurate and aligned with the quality and availability of power supply committed to customer clusters by EEDC.
- e. Ensure sustained improvement in reliability and quality of supply by incentivising EEDC to off-take energy in accordance with its Vesting Contract and MYTO load allocation.
- f. Provide a framework for settlement of imbalances between Transmission Company of Nigeria Plc ("TCN") and EEDC on delivery and offtake of available energy in accordance with the Market Rules, vesting contracts and other industry documents.
- g. Provide a framework that ensures customer tariffs are consistent with the services they receive from EEDC.
- h. Develop and implement a framework for enforcing market discipline in respect of market remittances and managing future revenue shortfalls in the industry including a minimum market remittance requirement to account for differences between cost-reflective tariffs and allowed tariffs in the settlement of invoices issued by the Nigerian Bulk Electricity Trading Plc ("NBET") and the Market Operator ("MO").
- i. Support the interim arrangements for payments to the electricity market and reaffirm the payment securitisation requirement and flow of funds from EEDC to NBET and MO.

BASIS FOR THE REVIEW

21. Change in Rate Design

Pursuant to the outcome of the public hearings held in February/March 2020 on the extraordinary tariff application filed by EEDC, the Commission directed the utility to adopt a revised rate design that aligns tariffs with service level experience of customers in different clusters/locations. Upon evaluation of EEDC's application, the Commission considered and approved five (5) tariff 'Service Bands' representing relative quality of service experience as measured by the committed minimum average hours of supply per day over a period of one month, interruptions (frequency and duration), service voltage levels and a number of other service parameters. These service bands are further subdivided into tariff classes as follows:

- (i) Non-Maximum Demand (Non-MD).
- (ii) Low voltage Maximum Demand (MD 1).
- (iii) Medium/High voltage Maximum Demand (MD 2).
- (iv) Lifeline tariff class (R1) (for consumption of not more than 50kWh/month).



Table – 1 below is a comparative analysis of the new and old tariff classes:

Table – 1: EEDC Tariff Classification

Service Bands	New Tariff Class	Old Tariff Class
Lifeline	R1	R1
A (minimum of 20hrs/day)	A – Non-MD	R2, C1, D1, A1 (single and three phase)
	A – MD 1	R3, C2, D2, A2 Street Light
	A – MD 2	R4, C3, D3, A3
B (minimum of 16hrs/day)	B – Non-MD	R2, C1, D1, A1 (single and three phase)
	B – MD 1	R3, C2, D2, A2 Street Light
	B – MD 2	R4, C3, D3, A3
C (minimum of 12hrs/day)	C – Non-MD	R2, C1, D1, A1 (single and three phase)
	C – MD 1	R3, C2, D2, A2 Street Light
	C – MD 2	R4, C3, D3, A3
D (minimum of 8hrs/day)	D – Non-MD	R2, C1, D1, A1 (single and three phase)
	D – MD 1	R3, C2, D2, A2 Street Light
	D – MD 2	R4, C3, D3, A3
E (minimum of 4hrs/day)	E – Non-MD	R2, C1, D1, A1 (single and three phase)
	E – MD 1	R3, C2, D2, A2 Street Light
	E – MD 2	R4, C3, D3, A3

EEDC shall be liable for service improvements in accordance with commitments under its universal service obligations for providing electricity supply to customers. Attached herewith as Appendix 2 are details of the service improvement commitments made by EEDC to customers in various tariff bands for the period 1st September 2020 to 31st December 2021.

22. Capital Expenditure (“CAPEX”) Plan

EEDC has applied to the Commission for an upward review of the CAPEX provisions in its tariffs to support the implementation of its Performance Improvement Plans (“PIP”) over the next 5 years. Pursuant to the request, the Commission has shared a CAPEX Request Template with EEDC as a guide for a revised submission to qualify for consideration in the tariffs. Accordingly, the rates as contained in this Order and valid to December 31, 2020 are based on current CAPEX provision as contained in MYTO-2015 Order, with necessary adjustments for changes in relevant macroeconomic indices. Any verified and approved investments beyond the CAPEX allowances during this period shall be recognised and applied in the Tariff Order commencing on 1st January 2021. CAPEX review proposals for the period 2021 – 2025 shall be evaluated and upon approval applied in the Tariff Order commencing on 1st January 2021.

23. MYTO Load Allocation

The current MYTO load allocation to DisCos was presented as a subject matter for consultation during the public hearings in consideration of the applications for extraordinary tariff review. Several DisCos and TCN consider the current MYTO Load Allocation as sub-optimal, given the changes that have occurred in load growth and capacities of the transmission and distribution networks. However, a full justification for a holistic review of the MYTO load allocation could not be established during this Extra-Ordinary Tariff Review process. Accordingly, the Commission orders that the current MYTO load allocation shall be maintained for the purpose of computing the relevant tariffs of all DisCos.

24. Tariff Assumptions

Pursuant to the provisions of the MYTO Methodology and the Regulation on Procedure for Electricity Tariff Review in NESI, Table 2 below provides the key indices considered in evaluating the tariff application by EEDC in this Extraordinary Tariff Review process. The projected parameters in this Order shall be reviewed and retrospectively adjusted during the December 2020 Minor Review of Tariffs to align the assumptions with actuals.

- a. **Nigerian rate of inflation:** The Nigerian rate of inflation for July 2020 as obtained from the National Bureau of Statistics (NBS) was 12.82%. This rate was adopted to project Nigerian inflation rates for year 2020 and beyond.
- b. **Exchange Rate:** In accordance with the provisions of the MYTO Methodology, CBN official exchange rates were used in this review. The MYTO - Methodology provides for a premium of 1% above the CBN rate as transaction cost and this was applied in the current review. The applicable NGN/USD exchange rate for the period September 1, 2020 and beyond is computed as $\text{NGN}380 + 1\% \text{ premium} = \text{NGN}383.80$.
- c. **US rate of inflation:** Based on the data obtained from the website of the United States Bureau of Labor Statistics (<http://www.bls.gov>), the US inflation rate for the month of July 2020 was 1.0%. This rate was adopted for the purpose of this review to project US Inflation rates for year 2020 and beyond.
- d. **Gas Price:** The price of natural gas for the power sector has been regulated since the inception of MYTO in 2008. The Commission has maintained the gas price of US\$2.50/MMBTU and gas transportation cost of US\$0.80/MMBTU for this review. Other grid connected generation companies with contracted gas prices outside the regulated rates and as provided in their respective Gas Sale Agreements ("GSAs") are also provided for in the MYTO model as a pass-through cost.






Table – 2: Key Indices Considered in Evaluating EEDC Application

Parameter	Sep – Dec 2020	Jan – Jun 2021	Jul – Dec 2021	Jan – Dec 2022
Nigerian Inflation	12.82%	12.82%	12.82%	12.82%
Exchange Rate (₦/US\$)	383.8	383.8	383.8	383.8
US Inflation	1.00%	1.00%	1.00%	1.00%
Sent out Generation (MWh/h)	4,646	4,974	4,974	5,325
Weighted Generation Price (₦/kWh)	25.6	25.6	25.6	25.6
TCN and Admin Charge (₦/kWh)	7.8	8.3	8.3	8.2
Delivered to EEDC (MWh/h)	360	387	387	416
ATC&C Losses	20.56%	13.06%	13.06%	13.06%
End-use Cost-reflective Tariffs (₦/kWh)	56.76	53.60	53.60	53.59
End-use Allowed Tariffs (₦/kWh)	44.45	50.05	53.60	53.59
Tariff Shortfall (₦/kWh)	12.30	3.55	-	-




25. Approved End-user Tariffs Effective from 1st November 2020

Pursuant to EEDC's application for extraordinary tariff review and consistent with paragraph 21 of this Order, the Commission considered and approved the tariffs in Table-3A below with effect from 1st November 2020 and shall remain in force until the issuance of a new Minor Review Order or an Extraordinary Tariff Review Order by the Commission.

Table – 3A: Approved End-user Tariffs (₹/kWh) for EEDC

Tariff Class	Nov – Dec 2020	Jan – Jun 2021	Jul – Dec 2021	Jan – Dec 2022	Jan – Dec 2023	Jan – Dec 2024	Jan – Dec 2025
Life-line (R1)	4.00	4.00	4.00	4.00	4.00	4.00	4.00
A - Non MD	55.93	58.22	62.36	62.34	62.33	60.91	59.38
A - MD1	52.58	54.50	58.37	58.35	58.34	57.02	55.58
A - MD2	53.93	56.00	59.98	59.96	59.95	58.59	57.11
B - Non MD	54.80	57.09	61.14	61.12	61.12	59.72	58.22
B - MD1	51.14	53.00	56.76	56.75	56.74	55.45	54.05
B - MD2	52.04	54.00	57.83	57.82	57.81	56.49	55.07
C - Non MD	48.89	55.00	58.91	58.89	58.88	57.54	56.09
C - MD1	45.44	50.00	53.55	53.53	53.53	52.31	50.99
C - MD2	46.82	52.00	55.69	55.67	55.67	54.40	53.03
D - Non MD	49.50	49.50	53.02	53.00	52.99	51.79	50.48
D - MD1	47.00	47.00	50.34	50.32	50.32	49.17	47.93
D - MD2	48.00	48.00	51.41	51.39	51.39	50.22	48.95
E - Non MD	34.28	34.28	36.71	36.70	36.70	35.86	34.96
E - MD1	45.67	45.67	48.91	48.90	48.89	47.78	46.57
E - MD2	46.83	46.83	50.16	50.14	50.13	48.99	47.76



26. Tariff Freeze for Customers in Bands D and E

Following consultations and directions on tariff policy, the Commission hereby approves a deferment of the applicable tariffs for customers in service bands D and E (that is customers with a service commitment of less than an average of 12-hours of supply per day over a period of one month for the period 1st September 2020 to 1st January 2021. Accordingly, EEDC shall continue to charge customers in Bands D & E the tariffs applied prior to this Order as provided in Table – 3B below and shall only be allowed to charge the approved tariffs in this Order upon investments that improve quality of service experience thus migrating customers to higher service bands or another Order of the Commission.

Table – 3B: Applicable Tariffs for Customers in Bands D and E

Old Tariff Class	R1	R2S	R2T	R3	R4	C1S	C1T	C2	C3	D1S	D1T	D2	D3	A1S	A1T	A2	A3	L1
Rate (N/kWh)	4.00	30.93	34.28	48.12	46.08	34.28	39.25	45.24	45.85	40.37	42.56	45.67	46.83	34.16	39.25	45.26	45.06	32.86
New Category	Life Line	Non-MD	Non-MD	MD-1	MD-2	Non-MD	Non-MD	MD-1	MD-2	Non-MD	Non-MD	MD-1	MD-2	Non-MD	Non-MD	MD-1	MD-2	MD-1

27. Service Band Adjustment

Where there is a failure to deliver on committed service level by EEDC over as evaluated over a period of 60 days, 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.

28. Minimum Remittance Threshold for November – December 2020:

The Power Sector Recovery Plan (“PSRP”) provides for a gradual transition to cost-reflective tariffs with safeguards for the less privileged in the society. The Federal Government, under the PSRP Financing Plan, has committed to fund 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 -

- a. All DisCos are obligated to settle their market invoices in full as adjusted and netted off by applicable tariff shortfall approved by the Commission.
- b. In the determination of compliance with the minimum remittance threshold in this Order, the Commission shall consider verified receivables from MDAs for the settlement period and DisCo’s historical collection efficiency for MDAs.
- c. All FGN intervention from the financing plan of the PSRP for funding tariff shortfall shall be applied through NBET and MO to ensure 100% settlement of market invoices as issued by Market Participants.

- d. Under this framework, the minimum market remittance threshold for EEDC is determined after deducting the revenue deficit arising from tariff shortfall from the aggregate NBET and MO market invoices. 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.
 - iii. Full settlement of 61.86% of NBET's monthly invoices being the minimum remittance threshold prescribed in this Order.
- e. EEDC shall be liable to relevant penalties/sanctions for failure to meet the minimum remittance requirement in any payment cycle in accordance with the terms of its respective contracts with NBET, MO and the provisions of the Market Rules and Supplementary TEM Order.
- f. EEDC shall maintain an adequate and unencumbered letter of credit covering three (3) months of the minimum payment obligations to NBET and MO in accordance with the provisions of the Market Rules and Market Participation Agreement.
- g. Where EEDC is unable to comply with its minimum remittance threshold to the market prescribed in this Order from its operations as a utility, the company may seek external financing under the CBN intervention to cover the payment deficit but subject to the following conditions:
- (i) A submission to the Commission providing details of the market remittance ramp up period, lenders term sheet, draw down period, moratorium (where applicable) and the repayment period of the loan.
 - (ii) The terms and conditions for the financing of the remittance shortfall shall be mutually agreed between EEDC and the lenders and filed with the Commission.
 - (iii) The submission to the Commission, no later than two (2) weeks from the effective date of this Order, of the utility's financial model covering the remittance ramp up period and projections for the repayment of the external financing.

CAPACITY PAYMENT

29. The average tariff for EEDC was determined considering the projected energy offtake of the company based on its percentage load allocation in the Vesting Contract. NBET shall continue to invoice EEDC for capacity charge and energy based on its load allocation and metered energy respectively in accordance with the December 2019 Minor Review of MYTO-2015 and Minimum Remittance Order for Year-2020.
30. 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 own network, EEDC shall be liable to pay the capacity charge as allocated in its Vesting contract. Table 4 provides the minimum market remittance threshold for EEDC, with an effective date of 1st November 2020:

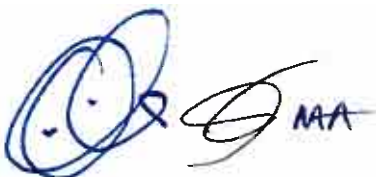


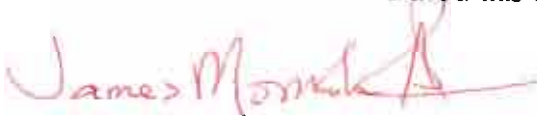
Table – 4: Minimum Remittance Threshold for November – December 2020

EEDC's Minimum Remittance Table - November 2020 - December 2020			
Head	Subhead	₦,000,000	Remarks
Revenue Required	NEMSF	826	CBN - Loan
	NBET Invoice	13,473	Projected Generation cost
	MO Invoice	4,077	Projected TCN and Admin Services cost
	EEDC	5,327	Approved recovery of capital and operating expenses
	Total	23,703	Total Revenue Required
Allowed	Recovery	18,564	78% Being Amount recoverable through allowed end-user tariffs of EEDC in 2020
Tariff	Shortfall	5,139	22% Being the difference between EEDC's revenue requirement and its allowed recovery
Minimum Remittance Obligation	NEMSF	826	1st - Line Charge on Collection as per loan Agreement
	NBET Minimum Remittance	8,334	Being Minimum Remittance Obligation of 61.86% of NBET's Monthly Invoices for November to December 2020. Full settlement to be supplemented by the FGN intervention funds.
	MO Minimum Remittance	4,077	Being Minimum Remittance Obligation of 100% of MO's monthly Invoices of November to December 2020.
	EEDC	5,327	Being opportunity availed the DisCo to earn its revenue requirement based on its efficient operations and upon full settlement of the minimum remittances to NEMSF, NBET and MO.
	Total Distribution	18,564	

EFFECTIVE DATE

31. This Order shall be effective from 1st November 2020.

Dated this 30th day of October 2020



James A. Momoh
Chairman



Dafe C. Akpeneye
Commissioner

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 Band – A Service Level Feeders
	A – MD 1	Customers with LV Maximum Demand connection located within Band – A Service Level Feeders
	A – MD 2	Customers with MV/HV Maximum Demand (11/33kV) connection located within Band – A Service Level Feeders
B (minimum of 16hrs/day)	B – Non-MD	Customers with single or three phase connection located within Band – B Service Level Feeders
	B – MD 1	Customers with LV Maximum Demand connection located within Band – B Service Level Feeders
	B – MD 2	Customers with MV/HV Maximum Demand (11/33kV) connection located within Band – B Service Level Feeders
C (minimum of 12hrs/day)	C – Non-MD	Customers with single or three phase connection located within Band – C Service Level Feeders
	C – MD 1	Customers with LV Maximum Demand connection located within Band – C Service Level Feeders
	C – MD 2	Customers with MV/HV Maximum Demand (11/33kV) connection located within Band – C Service Level Feeders
D (minimum of 8hrs/day)	D – Non-MD	Customers with single or three phase connection located within Band – D Service Level Feeders
	D – MD 1	Customers with LV Maximum Demand connection located within Band – D Service Level Feeders
	D – MD 2	Customers with MV/HV Maximum Demand (11/33kV) connection located within Band – D Service Level Feeders
E (minimum of 4hrs/day)	E – Non-MD	Customers with single or three phase connection located within Band – E Service Level Feeders
	E – MD 1	Customers with LV Maximum Demand connection located within Band – E Service Level Feeders
	E – MD 2	Customers with MV/HV Maximum Demand (11/33kV) connection located within Band – E Service Level Feeders

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Appendix – 2: EEDC's Service Level Commitments

Service Bands	Feeder Name	Service Level for Period-1: July - Dec 2020				Service Level for Period-2: Jan - Jun 2021			
		Minimum Duration of Supply (Hrs/Day)	Average Frequency of Interruptions Per Day	Average Duration of Interruptions	Minimum Duration of Supply (Hrs/Day)	Average Frequency of Interruptions Per Day	Average Duration of Interruptions		
Band A	COCA-COLA	22.00	0.03	12.44	22.0	0.03	11.19		
Band A	NEW NNPC 33KV	22.00	0.88	-	22.0	0.88	0.00		
Band A	UGWOGO 33KV	22.00	0.37	2.01	22.0	0.37	1.81		
Band A	ABA-OWERRI 33KV	22.00	0.41	-	22.0	0.41	0.00		
Band A	UKWA 33KV 05	22.00	0.39	4.88	22.0	0.39	4.40		
Band A	ITUKU OZALLA 33KV	20.00	0.30	3.07	21.0	0.30	2.77		
Band A	UNN 11KV	21.00	0.12	6.26	21.0	0.12	5.63		
Band A	WILSON 11KV	21.00	0.12	3.20	21.0	0.12	2.88		
Band A	E AMOBI 33KV	23.00	0.07	5.79	23.0	0.07	5.21		
Band A	GCM 11KV	23.00	-	-	23.0	-	0.00		
Band A	GCM-UGA 33KV	23.00	0.01	2.00	23.0	0.01	1.80		
Band A	GOLDEN OIL 11KV	23.00	0.01	4.83	23.0	0.01	4.34		
Band A	INTERFACT 11KV	23.00	0.03	1.62	23.0	0.03	1.46		
Band A	IUNT 11KV	23.00	0.04	6.16	23.0	0.04	5.55		
Band A	OSSOMALLA 33KV	20.00	0.43	5.30	21.0	0.43	4.77		
Band A	PPI 11KV	23.00	0.01	13.86	23.0	0.01	12.47		
Band A	ABAKALI ROAD 11KV	22.00	0.17	2.56	22.0	0.17	2.30		
Band A	GOVERNMENT HOUSE 11KV	23.00	0.26	3.68	23.0	0.26	3.32		
Band A	GOVERNMENT HOUSE 33KV	23.00	0.26	3.68	23.0	0.26	3.32		
Band A	INDEPENDENCE LAYOUT 33KV	23.00	0.30	1.92	23.0	0.30	1.73		
Band A	KINGSWAY LINE 1 33KV	23.00	0.14	1.50	23.0	0.14	1.35		
Band A	KINGSWAY LINE 2 33KV	23.00	0.41	2.41	23.0	0.41	2.17		
Band A	OJI WATERWORKS 33KV	23.00	0.27	5.35	23.0	0.27	4.81		
Band A	OWERRI 3 33KV	22.00	0.83	1.17	22.0	0.83	1.05		
Band A	AFARA 33KV	22.00	0.82	2.47	22.0	0.82	2.23		
Band A	AFIKPO 33KV	21.00	0.28	6.08	21.0	0.28	5.47		

Band A	ALBEN 11KV	21.00	0.04	5.60	21.0	0.04	5.04
Band A	ARMY BARRACKS 33KV	22.00	0.48	3.94	22.0	0.48	3.54
Band A	EMENE INDUSTRIAL 33KV	22.00	0.36	3.85	22.0	0.36	3.47
Band A	EMENE INDUSTRIAL 33KV -2	23.00	0.12	5.58	23.0	0.12	5.02
Band A	ABA OVERHEAD 33KV	22.00	0.25	3.94	22.0	0.25	3.55
Band A	NEW GOVERNMENT HOUSE, 11KV	20.00	0.06	9.73	20.0	0.06	8.76
Band A	GOLOEN OIL 33KV	23.00	0.06	-	23.0	0.06	0.00
Band B	OBOSI - ORAIFITE 33KV	18.00	0.33	11.87	19.0	0.33	11.87
Band B	ENUGU UKWU 33KV	20.00	0.33	4.07	21.0	0.33	4.07
Band B	UGWUJAI GARIKI 33KV	19.00	0.33	3.37	19.0	0.33	3.37
Band B	AIRPORT 33KV(MBAISE)	19.38	0.33	1.26	19.4	0.33	1.26
Band B	AIRPORT 33KV(NEW OWERRI)	19.38	0.33	1.26	19.4	0.33	1.26
Band B	AIRPORT 33KV(OWERRI)	19.38	0.33	1.26	19.4	0.33	1.26
Band B	CBN 33KV(UMAHIA)	21.00	0.33	3.19	21.0	0.33	3.19
Band B	GOLDEN GUINEA 11KV	20.00	0.33	2.74	20.0	0.33	2.74
Band B	NIKE LAKE 11KV	20.00	0.33	4.07	20.0	0.33	4.07
Band B	POLEMA 11KV	19.00	0.33	3.42	19.0	0.33	3.42
Band B	UNIZIK	20.00	0.33	6.16	21.0	0.33	6.16
Band B	MBAISE 33KV	19.84	0.33	2.74	19.8	0.33	2.74
Band B	NNEWI INDUSTRIAL 33KV	18.00	0.33	10.20	19.0	0.33	10.20
Band B	ARMY BARRACKS 11KV(OGIDI)	18.00	0.33	-	18.0	0.33	0.00
Band B	NICCUS 33KV	12.00	0.33	7.83	14.0	0.33	7.83
Band B	UMUNYA 33KV	18.00	0.33	6.83	19.0	0.33	6.83
Band B	ONITSHA ROAD 11KV	18.00	0.33	3.13	19.0	0.33	3.13
Band B	POWER HOUSE 11KV	20.00	0.33	2.39	21.0	0.33	2.39
Band B	3-3, 33KV	18.00	0.33	-	19.0	0.33	0.00
Band B	OGUTA 33KV(ORLU)	15.00	0.33	3.38	15.0	0.33	3.38
Band B	OGUTA 33KV(OWERRI)	15.00	0.33	3.38	15.0	0.33	3.38
Band B	UBAKALA 33KV	19.00	0.33	6.45	19.0	0.33	6.45
Band B	CBN TEE OFF ON OGUTA 33KV(NEW OWERRI)	21.00	0.33	8.80	21.0	0.33	8.80

Band B	ORLU 33KV(ORLU)	18.00	0.33	5.39	18.9	0.33	5.39
Band B	ORLU 33KV(OWERRI)	18.00	0.33	5.39	18.9	0.33	5.39
Band C	OCHUDO CITY 1	16.00	0.33	6.30	16.0	0.33	6.30
Band C	NNEWI - OBA 33KV	8.00	1.19	10.83	10.0	1.19	9.74
Band C	SECRETARIAT	18.00	0.09	4.72	18.0	0.09	4.72
Band C	GOLF 11KV	18.00	0.16	2.69	19.0	0.16	2.42
Band C	PRESIDENTIAL 11KV	15.00	0.14	2.43	16.0	0.14	2.19
Band C	ABA UMUAHIA 33KV	15.00	0.95	-	15.0	0.95	0.00
Band C	IGI 33KV	15.00	0.54	-	15.0	0.54	0.00
Band C	INDUSTRIAL ABAKALIKI	18.00	0.21	3.90	19.0	0.21	3.51
Band C	CONCORD 11KV	15.00	0.20	2.32	15.0	0.20	2.09
Band C	PORTHARCOURT 11KV	16.80	0.32	1.50	17.6	0.32	1.35
Band C	IBAGWA 33KV	15.00	0.75	5.04	16.0	0.75	4.54
Band C	DOZZY 11KV	18.00	0.14	6.06	18.0	0.14	6.06
Band C	AGULERI 33KV	16.00	0.50	8.71	18.0	0.50	7.84
Band C	ARTISAN 11KV	15.00	0.12	3.59	16.0	0.12	3.23
Band C	CHIME AVENUE 11KV	15.00	0.20	3.43	16.0	0.20	3.08
Band C	NEW HAVEN 11KV	12.00	0.11	2.90	14.0	0.11	2.61
Band C	RESEARCH 11KV	17.00	0.11	5.28	17.9	0.11	4.75
Band C	ABAKALIKI TOWNSHIP	18.00	0.21	4.18	19.0	0.21	3.76
Band C	AZUYIOKWU	16.00	0.26	4.23	18.0	0.26	3.81
Band C	UDEMENZE	16.00	0.16	4.25	18.0	0.16	3.82
Band C	EMENE 1, 11KV	16.00	0.36	2.83	18.0	0.36	2.54
Band C	PHASE 6, 11KV	16.00	0.14	3.00	18.0	0.14	2.70
Band C	ACHARA LAYOUT 11KV	16.00	0.10	4.53	18.0	0.10	4.07
Band C	AMECHI 33KV	12.00	1.65	2.14	14.0	1.65	1.93
Band C	ARMY 11KV AWKUNANAW	12.00	0.06	3.44	14.0	0.06	3.10
Band C	UNEC 11KV	16.00	0.20	3.23	18.0	0.20	2.91
Band C	AGULU 33KV	12.00	2.16	5.07	14.0	2.16	4.57
Band C	NENI 33KV	12.00	1.34	5.37	14.0	1.34	4.83
Band C	NNEWICHI 11KV	12.00	0.16	5.07	14.0	0.16	4.56
Band C	TEACHING HOSPITAL PRIVATE 11KV	18.00	0.16	-	18.0	0.16	0.00

Band C	TEACHING HOSPITAL PUBLIC 11KV	15.00	0.16	-	15.0	0.16	0.00
Band C	EHA - AMUFU 33KV	15.00	0.54	18.80	16.0	0.54	16.92
Band C	HABOUR 11KV	18.00	0.19	9.51	18.0	0.19	9.51
Band C	PREMIER 11KV	14.00	0.04	4.89	16.0	0.04	4.40
Band C	WHALF 11KV	12.00	0.06	8.27	12.0	0.06	8.27
Band C	CHIATULA 11KV	16.00	0.50	10.89	16.0	0.50	10.89
Band C	ROMANS 11KV	16.00	0.50	10.89	16.0	0.50	10.89
Band C	HOUSING 11KV	13.00	0.15	4.68	14.0	0.15	4.21
Band C	GRA 11KV	12.60	0.73	2.67	12.0	0.73	2.40
Band C	IKENEGBU 11KV	12.60	0.45	2.84	12.0	0.45	2.55
Band C	ABA-EAST 11 KV	15.00	0.09	-	15.0	0.09	0.00
Band C	AWKA INDUSTRIAL	14.00	0.34	6.61	16.0	0.34	5.95
Band C	GARIKI 11KV	15.00	0.13	3.06	16.0	0.13	2.75
Band C	NAPDAC 11KV	13.00	2.16	6.34	13.0	2.16	6.34
Band C	ALEX MBAISE	20.00	0.47	-	20.0	0.47	0.00
Band C	ACHI 33KV	15.00	0.56	-	16.0	0.56	0.00
Band C	AKPAKUME NZE, 11KV	14.00	-	-	14.0	-	-
Band D	AMECHI-AGBANI 33KV	10.00	-	5.00	12.0	-	4.50
Band D	ENUGU AGIDI VILLAGE	9.00	0.33	4.07	12.0	0.33	3.66
Band D	ORBA NSUKKA 33KV	12.00	0.33	6.65	14.0	0.33	5.98
Band D	COAL CAMP 11KV	12.00	0.33	6.32	14.0	0.33	5.68
Band D	YAHE 33KV FDR	12.00	0.33	-	14.0	0.33	0.00
Band D	9TH MILE INDUSTRIAL 11KV	12.00	0.33	4.22	14.0	0.33	3.80
Band D	DHAMUA, 11KV	12.00	0.33	3.73	14.0	0.33	3.36
Band D	UDI 33KV	12.00	0.33	10.86	14.0	0.33	9.78
Band D	AWKA MAIN 11KV	12.00	0.33	5.36	14.0	0.33	4.82
Band D	ENUGWU-AGIDI	11.00	0.33	-	12.0	0.33	0.00
Band D	UDOKA 11 KV	10.00	0.33	5.79	11.0	0.33	5.22
Band D	ORUMBA 33KV	10.00	0.33	-	11.0	0.33	0.00
Band D	NSUKKA TOWNSHIP 11KV	12.00	0.33	4.11	14.0	0.33	3.69
Band D	ONUJI 11KV	12.00	0.33	4.30	14.0	0.33	3.87
Band D	ENUGU GRA 11KV	12.00	0.33	4.51	14.0	0.33	4.06
Band D	AROCHUWU 33KV	12.60	0.33	13.53	12.0	0.33	12.17

Band D	NKWOEGWU 33KV	12.60	0.33	8.05	12.0	0.33	7.24
Band D	TOWNSHIP 11KV UMUAHIA	12.60	0.33	-	12.0	0.33	0.00
Band D	ABA TOWNSHIP 11KV	11.55	0.33	7.78	12.0	0.33	7.00
Band D	EHI ROAD 6.6KV	15.00	0.33	-	15.0	0.33	0.00
Band D	EZILLO	10.00	0.33	16.46	12.0	0.33	14.81
Band D	ISHIEKE 33KV FDR	12.00	0.33	-	14.0	0.33	0.00
Band D	ITIGIDI 33KV FDR	10.00	0.33	10.53	12.0	0.33	9.48
Band D	ABAKPA 1, 11KV	10.00	0.33	3.67	11.0	0.33	3.30
Band D	ABAKPA 2, 11KV	10.00	0.33	3.84	11.0	0.33	3.45
Band D	EMENE 2, 11KV	10.00	0.33	5.51	11.0	0.33	4.96
Band D	EMENE 3, 11KV	10.00	0.33	4.96	11.0	0.33	4.46
Band D	NOWAS, 11KV	12.00	0.33	4.68	14.0	0.33	4.22
Band D	ABA INDUSTRIAL 11KV	10.75	0.33	5.34	11.6	0.33	4.80
Band D	OWERINTA 33KV	10.75	0.33	4.95	11.6	0.33	4.45
Band D	AMANSEA 11KV	10.00	0.33	8.68	12.0	0.33	7.81
Band D	IFITE	10.00	0.33	7.98	11.0	0.33	7.18
Band D	OKPUNO 11KV	8.00	0.33	6.01	10.0	0.33	5.41
Band D	SATELLITE 11KV	12.00	0.33	4.74	14.0	0.33	4.27
Band D	EKE MARKET NRI 11KV	10.00	0.33	7.12	11.0	0.33	6.41
Band D	NDIOWU 11KV	10.00	0.33	8.54	10.0	0.33	7.68
Band D	URU NRI 11KV	9.00	0.33	7.01	11.0	0.33	6.31
Band D	NKWOEDO 11KV	10.00	0.33	10.52	10.0	0.33	9.47
Band D	OTOLO 11KV	10.00	0.33	5.60	11.0	0.33	5.04
Band D	AKU (LEJA) 11KA	10.00	0.33	6.25	12.0	0.33	5.62
Band D	CAMPUS 11KV	10.00	0.33	6.08	11.0	0.33	5.48
Band D	UGWUOYE 11KV	10.00	0.33	4.92	12.0	0.33	4.43
Band D	FEGGE 11 KV	9.00	0.33	8.14	11.0	0.33	7.33
Band D	HOUSING EBH 11KV	10.00	0.33	7.20	11.0	0.33	6.48
Band D	IWOVA 11KV	9.00	0.33	9.68	12.0	0.33	8.71
Band D	OKPOKO 11KV	9.00	0.33	7.73	10.0	0.33	6.95
Band D	UGA 11KV	9.00	0.33	-	12.0	0.33	0.00
Band D	MARYLAND 11KV	10.00	0.33	5.71	11.0	0.33	5.14
Band D	OJI URBAN 11KV	10.00	0.33	6.85	12.0	0.33	6.17
Band D	PRISONS 11KV	9.00	0.33	5.98	11.0	0.33	5.88

Band D	MGBUKA 11KV	8.00	0.33	10.70	10.0	0.33	9.63
Band D	OMAGBA 11KV	8.00	0.33	11.88	10.0	0.33	10.69
Band D	UMUAKA 11KV	10.75	0.33	5.39	11.6	0.33	4.85
Band D	TOWNSHIP 11KV OWERRI	10.75	0.33	4.39	11.6	0.33	3.95
Band D	AZIKIWE RD 11KV	10.75	0.33	-	11.6	0.33	0.00
Band D	GUINNESS 33KV	10.75	0.33	-	11.6	0.33	0.00
Band D	UMUARO 11KV	10.75	0.33	-	11.6	0.33	0.00
Band E	AMECHI-AWGU 33KV	8.00		7.30	8.0	-	7.30
Band E	NNEWI - AMICHI 33KV	4.00		6.20	5.0	-	6.20
Band E	NNEWI - AWKA ETITI 33KV	4.00		5.50	4.0	-	5.50
Band E	NNEWI - UMUDIM 33KV	8.00		-	10.0	-	0.00
Band E	OBOSI - IHIALA 33KV	4.00	0.33	-	4.0	0.33	0.00
Band E	OBOSI - OZUBULU 33KV	4.00	0.33	-	4.0	0.33	0.00
Band E	OBOSI - ULI 33KV	4.00	0.33	-	4.0	0.33	0.00
Band E	UKPOR - NNEWI 33KV	4.00	0.33	-	4.0	0.33	0.00
Band E	LIMCA, OKIGWE 11KV	6.60	0.33	13.62	7.1	0.33	13.62
Band E	URUALLA CIVC CENTER 11KV	6.60	0.33	-	7.1	0.33	0.00
Band E	OBOWO 33KV	6.60	0.33	-	7.1	0.33	0.00
Band E	3-3 - ABATA, 33KV	6.00	0.33	-	6.0	0.33	0.00
Band E	NIMO 11KV	6.00	0.33	9.26	7.0	0.33	9.26
Band E	ATANI WATER WORKS 11KV	8.00	0.33	7.68	10.0	0.33	7.68
Band E	NTIGHA 33KV	10.75	0.33	11.00	11.6	0.33	11.00
Band E	7-UP 11KV	8.80	0.33	6.73	9.7	0.33	6.73
Band E	ABA BARRACKS 11KV(ABA)	9.90	0.33	9.06	10.9	0.33	9.06
Band E	ABA WATER SIDE 11 KV	8.80	0.33	6.91	9.7	0.33	6.91
Band E	NGWA ROAD 11KV	10.75	0.33	6.30	11.6	0.33	6.30
Band E	OBOKHA 11KV	6.60	0.33	5.38	7.1	0.33	5.38
Band E	OPOBO ROAD 11KV	6.60	0.33	7.26	7.1	0.33	7.26
Band E	PORT HARCOURT ROAD 11KV	10.75	0.33	5.43	11.6	0.33	5.43
Band E	ABAKPA 3 11KV	8.00	0.33	5.39	8.0	0.33	5.39
Band E	AKPOGA 33KV	8.00	0.33	6.65	10.0	0.33	6.65
Band E	AMAORILI 11KV	8.00	0.33	5.72	10.0	0.33	5.72
Band E	EZEAGU	6.00	0.33	3.73	8.0	0.33	3.73

Band E	NTA 11KV	6.00	0.33	-	7.0	0.33	0.00
Band E	OKWE 11KV	6.00	0.33	-	6.0	0.33	0.00
Band E	ABA BARRACKS 11KV(ARIARIA)	10.75	0.33	9.06	11.6	0.33	9.06
Band E	ENUGU UKWU 11KV	6.00	0.33	8.93	8.0	0.33	8.93
Band E	NIBO	8.00	0.33	8.68	10.0	0.33	8.68
Band E	UKPO 11KV	4.00	0.33	11.40	5.0	0.33	11.40
Band E	AMECHI UWANI 11KV	8.00	0.33	5.99	8.0	0.33	5.99
Band E	TOP LAND 11KV	8.00	0.33	7.39	8.0	0.33	7.39
Band E	AGULUEZCHUKWU 11KV	8.00	0.33	6.92	10.0	0.33	6.92
Band E	AMUDA 11KV	4.00	0.33	24.57	4.0	0.33	24.57
Band E	EKWULOBIA MAIN OFFICE 11KV	8.00	0.33	6.99	10.0	0.33	6.99
Band E	OGBUNKA ROAD 11KV	4.00	0.33	12.25	4.0	0.33	12.25
Band E	OKO POLY 11KV	6.00	0.33	-	7.0	0.33	0.00
Band E	UMUNZE 11KV	4.00	0.33	11.80	4.0	0.33	11.80
Band E	OKIGWE 33KV (MBAISE)	6.60	0.33	6.54	7.1	0.33	6.54
Band E	IBOLO 11KV	7.00	0.33	10.68	8.0	0.33	10.68
Band E	MGBEMENA 11KV	6.00	0.33	9.68	7.0	0.33	9.68
Band E	MINAU 1, 11KV	6.00	0.33	9.69	7.0	0.33	9.69
Band E	HILL TOP 11KV	8.00	0.33	7.34	10.0	0.33	7.34
Band E	INLAND 11KV	8.00	0.33	10.51	10.0	0.33	10.51
Band E	IWEKA 11KV	7.00	0.33	9.06	10.0	0.33	9.06
Band E	MARKET 11KV	8.00	0.33	9.12	10.0	0.33	9.12
Band E	NKWELE 11KV	7.00	0.33	6.36	10.0	0.33	6.36
Band E	NSUGBE 11KV	8.00	0.33	6.09	10.0	0.33	6.09
Band E	ONITSHA G.RA 11KV	7.00	0.33	9.47	10.0	0.33	9.47
Band E	WOLIWO 11 KV	8.00	0.33	11.44	10.0	0.33	11.44
Band E	OKIGWE 33KV (ORLU)	6.60	0.33	6.54	7.1	0.33	6.54
Band E	EGBEDA 11KV	8.80	0.33	5.77	9.7	0.33	5.77
Band E	EGBU 11KV	8.80	0.33	6.59	9.7	0.33	6.59
Band E	FUT 11KV	10.75	0.33	5.11	11.6	0.33	5.11
Band E	IFAKALA 11KV	8.80	0.33	8.24	9.7	0.33	8.24
Band E	MBIERI 11KV	8.80	0.33	8.36	9.7	0.33	8.36

Band E	NAZE 11KV	8.80	0.33	5.96	9.7	0.33	5.96
Band E	OKIGWE 3KV (OWERRI)	6.60	0.33	6.54	7.1	0.33	6.54
Band E	ABA ROAD 11KV	8.80	0.33	-	9.7	0.33	0.00
Band E	ABIRIBA 11KV	6.60	0.33	10.98	7.1	0.33	10.98
Band E	AMACHARA 11KV	6.60	0.33	7.72	7.1	0.33	7.72
Band E	EKENOBIZI 11KV	6.60	0.33	7.75	7.1	0.33	7.75
Band E	GRA 11KV	10.75	0.33	-	11.6	0.33	0.00
Band E	NKWOGWU 11KV	8.80	0.33	6.19	9.7	0.33	6.19
Band E	OMOBA 11KV	6.60	0.33	16.83	7.1	0.33	16.83
Band E	ABOR	6.00	0.33	14.59	7.0	0.33	14.59
Band E	AJALI 3KV	7.00	0.33	8.79	10.0	0.33	8.79
Band E	ABA GRA 11KV	10.75	0.33	8.15	11.6	0.33	8.15
Band E	ABAYI 11KV	5.25	0.33	6.59	5.5	0.33	6.59
Band E	ARIARIA 11KV	5.25	0.33	7.44	5.5	0.33	7.44
Band E	ASA OKPUA 11KV	5.25	0.33	10.05	5.5	0.33	10.05
Band E	OMUMA 11KV	8.80	0.33	10.84	9.7	0.33	10.84
Band E	OSISIONA 11KV	5.25	0.33	6.05	5.5	0.33	6.05
Band E	URATTA 11KV	5.25	0.33	10.05	5.5	0.33	10.05
Band E	WORLD BANK 11KV ARIARIA	10.75	0.33	6.53	11.6	0.33	6.53
Band E	ABAGANA	4.00	0.33	13.42	6.0	0.33	13.42
Band E	AVUVU 11KV	6.60	0.33	8.70	7.1	0.33	8.70
Band E	EGBEREDE 11KV MBAISE	6.60	0.33	-	7.1	0.33	0.00
Band E	MBUTU 11KV	6.60	0.33	15.44	7.1	0.33	15.44
Band E	NKWQALA 11KV	6.60	0.33	9.36	7.1	0.33	9.36
Band E	IRETE INDUSTRIAL 11KV	7.70	0.33	7.74	7.8	0.33	7.74
Band E	NEW OWERRI 11KV	8.80	0.33	5.83	9.7	0.33	5.83
Band E	OBINZE 11KV	6.60	0.33	7.43	7.1	0.33	7.43
Band E	WORLD BANK (NEW OWERRI)	6.60	0.33	8.09	7.1	0.33	8.09
Band E	MBANAGU 11KV	7.00	0.33	7.24	10.0	0.33	7.24
Band E	UBAHU 11KV	4.00	0.33	10.13	6.0	0.33	10.13
Band E	UMUOFOR 11KV	4.00	0.33	10.03	6.0	0.33	10.03
Band E	URUAGU II, 11KV	7.00	0.33	10.13	10.0	0.33	10.13
Band E	AVENCO 11 KV	6.00	0.33	10.56	6.0	0.33	10.56

Band E	AWADA 11KV	5.00	0.33	8.40	6.0	0.33	8.40
Band E	EZEIWEKA 11KV	5.00	0.33	12.56	6.0	0.33	12.56
Band E	IDEMILI 33KV	4.00	0.33	-	4.0	0.33	0.00
Band E	MINAJ 2, 11KV	5.00	0.33	10.94	6.0	0.33	10.94
Band E	NKPOR 11 KV	5.00	0.33	10.38	6.0	0.33	10.38
Band E	NWAZIKI 11KV	5.00	0.33	10.57	6.0	0.33	10.57
Band E	OGIDI 11 KV	6.00	0.33	10.65	8.0	0.33	10.65
Band E	OJOTO 11KV	5.00	0.33	9.74	7.0	0.33	9.74
Band E	TOLL-GATE 11 KV	6.00	0.33	10.42	8.0	0.33	10.42
Band E	UGWUAGBA 11KV	6.00	0.33	-	7.0	0.33	0.00
Band E	BIDA 11KV	7.00	0.33	11.62	10.0	0.33	11.62
Band E	AMAIGBO ROAD. ORLU 11KV	6.60	0.33	7.74	7.1	0.33	7.74
Band E	IHIOMA ROAD. ORLU 11KV	6.60	0.33	9.04	7.1	0.33	9.04
Band E	OWERRI ROAD, ORLU 11KV	6.60	0.33	7.55	7.1	0.33	7.55
Band E	TOWNSHIP, OKIGWE 11KV	6.60	0.33	13.62	7.1	0.33	13.62
Band E	EMEKUKU 11KV	6.60	0.33	4.66	7.1	0.33	4.66
Band E	NEW OWERRI 11KV (OWERRI)	8.80	0.33	5.83	9.7	0.33	5.83
Band E	AMAOGWU 11KV	6.60	0.33	6.09	7.1	0.33	6.09
Band E	ASAGA 11KV	6.60	0.33	20.38	7.1	0.33	20.38
Band E	NDUME 11KV	6.60	0.33	5.96	7.1	0.33	5.96
Band E	OHAFLA BARRACKS 11KV	6.60	0.33	9.06	7.1	0.33	9.06
Band E	OLD UMUAHIA 11KV	6.60	0.33	5.91	7.1	0.33	5.91
Band E	OLOKORO 11KV	6.60	0.33	6.13	7.1	0.33	6.13
Band E	UBAKALA 11KV	6.60	0.33	6.10	7.1	0.33	6.10
Band E	UMUDIKE 11KV	6.60	0.33	5.87	7.1	0.33	5.87
Band E	WORLD BANK 11KV UMUAHIA	8.80	0.33	-	9.7	0.33	0.00
Band E	TCN AUXILIARY	4.00	0.33	-	4.0	0.33	0.00
Band E	EZIOKO 11KV	6.00	0.33	-	6.0	0.33	0.00
Band E	NGODO 11KV	4.00	0.33	-	4.0	0.33	0.00
Band E	LAGWA 11KV	6.60	0.33	-	7.1	0.33	0.00
Band E	UMUJIHI 11KV	6.60	0.33	6.82	7.1	0.33	6.82
Band E	OBIANGWU 11KV	6.60	0.33	-	7.1	0.33	0.00