

ORDER/NERC/204B/2020

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

TITLE

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

COMMENCEMENT

 This Order shall take effect from 1" 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

- The Commission has reviewed an extra-ordinary tariff review application filed by Jos
 Electricity Distribution Plc ("JEDC") 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.
- 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 JEDC 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 JEDC's application and the outcome of the public consultation, the Commission had vide Order NERC/204/2020, approved end-user tariffs that reflect the impact of changes in macroeconomic parameters on JEDC'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.
- The Commission further directed JEDC 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.
- 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. JEDC 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 JEDC 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
 - Band A: 10% reduction in the marginal increase experienced due to transition to service-based tariff ("SBT")
 - Band B: 10.5% reduction in the marginal increase experienced due to transition to SBT.
 - Band C: 31% reduction in the marginal increase experienced due to the transition to SBT.
 - 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 JEDC.
- 19. The Commission HEREBY APPROVES the REVISED MULTI YEAR TARIFF ORDER (MYTO) 2020 for Jos Electricity Distribution Plc which addresses the adjustments to the tariffs payable by JEDC'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 JEDC are fair to customers and are sufficient to allow JEDC 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.
- Provide a path to a transition to fully service-based cost-reflective tariffs by July 2021.
- Reclassify and disaggregate customers and customer clusters on the basis of JEDC'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 JEDC.
- Ensure sustained improvement in reliability and quality of supply by incentivising JEDC 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 JEDC 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 JEDC.
- 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 costreflective tariffs and allowed tariffs in the settlement of invoices issued by the Nigerian Bulk Electricity Trading Plc ("NBET") and the Market Operator ("MO").
- Support the interim arrangements for payments to the electricity market and reaffirm the payment securitisation requirement and flow of funds from JEDC 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 JEDC, 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 JEDC'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:

- 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: JEDC Tariff Classification

Service Bands	New Tariff Class	Old Tariff Class
Lifeline	R1	R1
	A - Non-MD	R2, C1, D1, A1 (single and three phase)
A minimum of 20hrs/day)	A - MD 1	R3, C2, D2, A2 Street Light
Control to the first that were also the control of the	A - MD 2	R4, C3, D3, A3
	B - Non-MD	R2, C1, D1, A1 (single and three phase)
B (minimum of 16hrs/day)	B - MD 1	R3, C2, D2, A2 Street Light
7	B - MD 2	R4, C3, D3, A3
120	C - Non-MD	R2, C1, D1, A1 (single and three phase)
C (minimum of 12hrs/day)	C-MD1	R3, C2, D2, A2 Street Light
W 541	C - MD 2	R4, C3, D3, A3
150	D - Non-MD	R2, C1, D1, A1 (single and three phase)
D (minimum of 8hrs/day)	D - MD 1	R3, C2, D2, A2 Street Light
	D - MD 2	R4, C3, D3, A3
	E - Non-MD	R2, C1, D1, A1 (single and three phase)
E (minimum of 4hrs/day)	E-MD 1	R3, C2, D2, A2 Street Light
TO COMPLETE E CONTROL CONTROL CONTROL	E-MD 2	R4, C3, D3, A3

JEDC 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 JEDC to customers in various tariff bands for the period 1st September 2020 to 31st December 2021.

22. Capital Expenditure ("CAPEX") Plan

JEDC 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 JEDC 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 JEDC 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 NGN380 +1% premium = NGN383.80.
- 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.

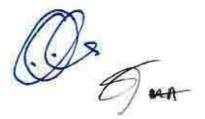
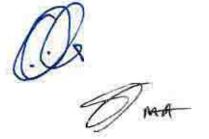


Table - 2: Key Indices Considered in Evaluating JEDC Application

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 (N/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 JEDC (MWh/h)	220	237	237	254
ATC&C Losses	39.12%	32.15%	32.15%	32.15%
End-use Cost-reflective Tariffs ➡/kWh)	76.13	70.77	70.77	70.89
End-use Allowed Tariffs (N/kWh)	44.88	50.05	70.77	70.89
「ariff Shortfall (₩/kWh)	31.24	20.72	-	<u></u>



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

Pursuant to JEDC'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 (神/kWh) for JEDC

540	able - JA:	Approved	End-user	laritts (#4/	kWh) for J	EDC	
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	49.04	50.73	71.45	71.39	71.56	70.07	68.86
A - MD1	55.16	57.53	81.87	81.81	82.00	80.30	78.91
A - MD2	58.15	60.86	86.38	86.32	86.52	84.72	83.26
B - Non MD	47.40	48.99	68.67	68.68	68.84	67.41	66.25
B - MD1	53.48	55.79	79.09	79.10	79.28	77.63	76.29
B - MD2	55.31	57.83	84.30	84.30	84.50	82.74	81.31
C - Non MD	43.05	47.21	66.43	66.48	66.63	65.24	64.12
C - MD1	47.74	54.01	76.85	76.89	77.07	75.47	74.16
C - MD2	49.15	56.05	80.86	80.92	81.11	79.42	78.05
D - Non MD	45.30	45.30	63.66	63,63	63.78	62.46	61.38
D - MD1	52.10	52.10	74.07	74.05	74.22	72.68	71.42
D - MD2	54.38	54.38	77.20	77.18	77.35	75.75	74.44
E - Non MD	41.70	41.70	58.38	58.36	58.49	57.28	56.29
E - MD1	48.50	48.50	68.80	68.77	68.93	67.50	66.33
E - MD2	50.81	50.81	71.93	71.90	72.06	70.57	69.35



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, JEDC 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	R2	R3	R4	C1	C2	C3	D1	D2	D3	A1	A2	A3	S1
Rate (N/kWh)	4.00	29.81	45.76	45.76	42.64	45.55	45.55	42.64	41.54	40.40	44.65	44.65	44.65	44.98
New Category	Life- Line	Non- MD	MD-1	MD-2	MD-1									

27. Service Band Adjustment

Where there is a failure to deliver on committed service level by JEDC 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 costreflective 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 JEDC is determined after deducting the revenue deficit arising from tariff shortfall from the aggregate NBET and MO market invoices. JEDC 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.
 - Full settlement of 25.77% of NBET's monthly invoices being the minimum remittance threshold prescribed in this Order.
- e. JEDC 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. JEDC 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 JEDC 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 JEDC 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 JEDC 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 JEDC 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 JEDC's load allocation, TCN shall be liable to pay for the associated capacity charge. Where JEDC fails to take its entire load allocation due to constraints in its own network, JEDC shall be liable to pay the capacity charge as allocated in its Vesting contract. Table 4 provides the minimum market remittance threshold for JEDC, with an effective date of 1st November 2020:

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

	JEDC's Minim	um Remittance	Table - November 2020 - December 2020
Head	Subhead	14,000,000	Remarks
	NEMSF	394	CBN - Loan
	NBET Invoice	8,234	Projected Generation cost
Revenue Required	MO Invoice	2,499	Projected TCN and Admin Services cost
	JEDC	3,764	Approved recovery of capital and operating expenses
	Total	14,891	Total Revenue Required
Allowed	Recovery	8,779	59% Being Amount recoverable through allowed end-user tariffs of JEDC in 2020
Tariff	Shortfall	6,111	41% Being the difference between JEDC's revenue requirement and its allowed recovery
	NEMSF	394	1st - Line Charge on Collection as per loan Agreement
	NBET Minimum Remittance	2,122	Being Minimum Remittance Obligation of 25.77% of NBET's Monthly Invoices for November to December 2020. Full settlement to be supplemented by the FGN intervention funds.
Minimum Remittance	MO Minimum Remittance	2,499	Being Minimum Remittance Obligation of 100% of MO's monthly Invoices of November to December 2020.
Obligation	JEDC	3,764	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	8,779	

EFFECTIVE DATE

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

Dated this 30th day of October 2020

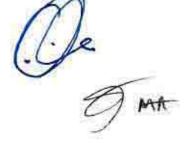
James A. Momoh

Chairman

Dafe C. Akpeneye Commissioner

Appendix - 1: JEDC's Customer Classifications

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



		Š	Service Level Proposal for Period-1: July - Dec 2020	sal for Period-1	July - Dec 202	0	i,X	Service Level Proposal for Period-2: Jan - Jun 2021	osal for Period-	2: Jan - Jun 20	21
Tariff Band	Feeder Name	Average Duration of Supply (Hrs/Day)	Average Frequency of Interruption s Per Day	Average Duration of Interruption s (minutes)	Average Response time to resolving complaints	Service Voltage Level (kv)	Average Duration of Supply (Hrs/Day)	Average Frequency of Interruption s Per Day	Average Duration of Interruption s (minutes)	Average Response time to resolving complaint	Service Voltage Level (kV)
BandA	FMC STAFF QUARTERS GOMBE	23.17	0.15	49,53	5.00	32.80	23.17	0.11	49.53	4.00	33.00
Band A	CBN GOMBE	23.17	0.15	49.53	5.00	32.80	23.17	0.11	49.53	400	33.00
Band A	SECRETARIAT	23.05	0.68	56.92	6.00	32.00	23.05	0.51	56.92	2.00	32.50
Band A	FMC	23.02	0.15	59.08	2.00	32.90	23.02	0.11	59.08	4.00	33.00
BandA	DOGON DUTSE	22.99	09:0	92'09	00.9	29.00	22.99	0.45	60.76	5.00	32.00
BandA	GOMBETOWN	22.87	0.45	62.29	6.00	32.80	22.87	0.34	67.59	5.00	33.00
Band A	NEW GOVT. HOUSE JOS	22.83	0.79	70.02	6.00	32.50	22.83	0.59	70.02	5.00	32.70
Band A	ASHAKA	22.80	0.00	72.15	3.00	138.00	22.80	0.00	72.15	3.00	138.00
BandA	MAKERI	22.73	0.53	76.49	6.00	32.00	22.73	0.39	76.49	5.00	32.50
BandA	ANGLO JOS	22.50	0.83	10'06	6.00	32.00	22.50	0.62	90.01	2.00	32.50
BandA	BARRACKS ROAD	22,49	0.45	90.65	6.00	32.60	22.49	0.34	90.65	5.00	32.60
Band A	HSY	22.49	0.68	90.67	6.00	32.00	22.49	0.51	29.67	2.00	32.60
BandA	UNIJOS DEDICATED	22.40	1.01	96.14	2.00	10.30	22.40	97.0	96.14	4.00	10.50
BandA	IBRAHIM TAIWO	22.25	89.0	105.25	5.00	10.90	22.25	0.51	105.25	4.00	11.00
Band A	SHONGO	22.21	1.39	107.13	7.00	32.50	22.21	1.04	107.13	6.00	32.70
BandA	UBERTY DAM	22.18	99.0	109.42	2.00	11.00	22.18	0.51	109.42	4.00	11.00
BandA	GURA TOP/MAZ.	22.14	1.80	111.87	5.00	10.30	22.14	1.35	111.87	4.00	10.60
BandA	WEST OF MINES	22.04	1.39	117.48	5.00	10.30	22.04	1.04	117.48	4.00	10.60
BandA	RANTYA	22.03	1.28	117.94	5.00	10.30	22.03	96'0	117.94	4.00	10.50
Band A	FMC GOMBE	21.91	0.15	125.58	2:00	32.80	21.91	0.11	125.58	4.00	33.00
Band A	STATE LOWCOST	21.88	1.58	127.09	5.00	10.30	21.88	1.18	127,09	4.00	10.60
Band A	RAYFIELD	21.84	1.95	129.62	2.00	11.00	21.84	1.46	129.62	4.00	11.00
Band A	WATER WORKS BAUCH!	21.82	06'0	130.96	6.00	32.00	21.82	99.0	130,96	5.00	32.50
Band A	CBN MAKURDI	21.80	0.45	132.00	2.00	32.00	21.80	0.34	132.00	4.00	32.50
BandA	TEACHING HOSPITAL	21,48	0.64	151.29	4.00	11.00	21.48	0.48	151.29	3.00	11.00
BandA	WATER WORKS COMBE	36 36	000							1000	1

NAB	NABORDO GUBI DAM 1	21.13	0.64	171.95	7.00	32.50	21.13	0.48	171.95	3.00	
៍ថ	GUBI DAM 2	21.05	0.64	177.15	0009	31.00	21.05	0.48	176.50	2.00	10
	DOMA	20.98	6.11	181.30	8.00	32.00	20,98	4.58	181.30	7.00	
	BUKURU	20.95	1.73	182.86	7.00	32.00	20.95	1.29	182.86	9.00	_
166	DEDICATED (NASCO)	20.90	1.46	185.89	2.00	11.00	20.90	1.10	185.89	4.00	
	NNPC MAKURDI	20.89	1.24	186.79	8.00	31.00	20.89	0.93	186.79	7.00	31.40
	YANDEV	20.61	2.25	203.60	8.00	32.00	20.61	1.69	203.60	7.00	32.00
A	DADIN KOWA WATER WORKS	20.53	06.0	208.00	6.00	30.50	20,53	89.0	208.00	5.00	21.00
	MAKURDI TOWN	20.42	2.25	214.98	2.00	32.00	20.42	1.69	214.98	6.00	31.00
9	GOVT, HOUSE GOMBE	20.40	1.61	216.00	7.00	10.90	20.40	1.21	216.00	9	10.90
N	NNPC DEPOT MAKURDI 3.3KV	20.13	131	232.00	8.00	32.50	20.13	0.98	232.00	4.00	32.50
	INDUSTRIAL JOS	19.92	1.61	244.70	2.00	11.00	19.92	1.21	244.70	4.00	32.30
	BCC II	19.72	0.23	256.61	4.00	32.00	19.72	0.17	256.61	3.00	32.30
	INTUI	19.61	0.68	263,45	2:00	32.00	19.61	0.51	263.45	4.00	32.30
	JUTHII	19.61	0.68	263.45	5.00	32.00	19.61	0.51	263.45	4.00	32.30
	NORTH BANK	23.32	1.54	40.55	8.00	32.50	23.32	1.15	40.55	7.00	32.50
AIRF	AIRFORCE BASE BAUCHI	23.27	1,01	43.73	6.00	31.00	23.27	0.76	43.73	2.00	31.30
ATB	ATBU PERMANENT SITE	23.27	1.05	43.99	6.00	31.00	23.27	62.0	43.99	5.00	31.30
9	ANKPA	27.22	2.70	166.86	8.00	32.00	21.22	2.03	166.86	7.00	32.30
7	ZUMA STEEL 6.6KV	23.20	0.00	48.00	00'0	32.00	23.20	0.00	48.00		32.30
	NINGI	23.17	96'0	49.56	8.00	31.90	23.17	0.73	49.56	7.00	32.00
	TUNFURE	23.13	1.61	52.00	6.00	10.90	23.13	1.21	52.00	2.00	10.90
	NVRI	23.02	2.03	58.72	6.00	10.50	23.02	1.52	58.72	2.00	10.60
	RUKUBA	20.99	2.03	180,40	7.00	32.00	20.99	1.52	180.40	9.00	10.20
	ATBU	22.98	0.64	60.92	7.00	10.90	22.98	0.48	60.92	900	10.90
3	WATER TREATMENT SHEN	22.90	1.76	66.17	9009	31.00	22.90	1.32	66.17	2.00	31.40
	PANTAMI	22.80	3.19	72.00	6.00	10.80	22.80	2.39	72.00	2:00	10.80
	GBOKO ROAD	22.73	2.85	76.00	5.00	10.50	22.73	2.14	76.00	4.00	10.60
	COCACOLA	22.73	2.21	76.24	6.00	10.90	22.73	1.66	76.24	5.00	10.90
	GRA/PALACE	22.70	0.68	77.90	4.00	32.00	22.70	0.51	77.90	3.00	32.30
	KATSINA ALA	20.67	2.70	199.72	7.00	31.00	20.67	2.03	199.72	9 9	31.00
	WINGING	22.67	175	00 00	000		40.00				

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WOKAKI	AZARE	NAKA ROAD	ZARIA ROAD	DISTRICT	MURTALA	SRS	GOVT. HOUSE BAUCHI	Gamawa/Dambam	DOROWA	NNPC DEPOT GOMBE	DARAZO 11KV	GOMBE STATE UNIVERSITY	KUMO	DASS	AIRFORCE BASE	RUKUBA BARRACKS	TABRA PUMPING STATION	ASA	HWOLSHE	ZAWAN	OIO	BSU	OBARIKE TOWN	IOIO	TARAKU	HIGH LEVEL	DAUDU	WUNTI ROAD	MAKURDI TOWN 11KV
19.05	22.60	22.47	22.36	21.27	27.21	21.13	21.11	18.92	18.92	18.60	18.14	19.96	19.96	17.62	15.33	15.23	15.13	14.80	14.58	14.27	14.19	14.13	14.07	13.93	13.90	13.87	13.73	13.72	13.60
5.03	2.25	3.30	0.49	2.48	2,70	3.04	1.50	2.03	4.61	1.80	2.33	6.15	1.73	2.70	1.24	1.05	0.90	3.15	1.76	2.03	2.48	1.50	2.51	2.51	2.03	1.88	3,30	2,59	1.69
250.51	84,23	92.00	98.18	164.00	167.47	172.00	173.26	304.67	304.87	324.00	351.87	242.38	242.55	383.05	520.00	525.98	532,00	552.28	565.12	583.58	588,48	592.00	296.00	604.00	96'509	608.00	616.00	616.65	624.00
8.00	7,00	5.00	5.00	7.00	6.00	6.00	2.00	8.00	8.00	2.00	00.9	2.00	8.00	8.00	2.00	9009	90.9	4.00	9009	00'9	8.00	2.00	9.00	9009	7.00	00'9	6.00	2.00	9.00
31.00	32.00	10.70	32.50	10.80	10.00	10.50	11.00	31.00	29.00	32.50	10.90	32.00	30.00	32.00	30.50	32.00	32.00	31.00	10.90	10.60	31.00	10.80	10.00	30.00	31.00	10.70	10.70	10.50	10.50
19.82	22.60	22.47	22.36	21.27	21.21	21.13	21.11	18.92	18.92	18.60	18.14	19.96	19.96	17.62	19.00	15.23	19.00	14.80	18.00	16.00	17.00	18.00	18.00	17.00	17.00	18.00	18.00	18.00	18.00
1.52	1.69	2,48	0.37	1.86	2.03	2.28	1.13	1.52	3.46	1.35	1.74	4.61	1.29	2.03	0.93	0.79	0.68	2.36	1.32	1.52	1.86	1.13	1.88	1.88	1.52	1.41	2.48	1.94	1.27
250.51	84.23	92.00	98.18	164.00	167.47	172.00	173.26	304.67	304.87	324.00	351.87	242.38	242.55	383.05	300.00	525.98	300.00	552.28	360.00	480.00	420.00	360.00	360.00	420.00	420.00	360.00	360.00	360.00	360.00
2.00	6.00	2,00	4.00	6.00	5.00	2.00	4.00	7.00	7.00	4.00	2.00	4.00	7.00	7.00	4.00	2.00	5.00	3.00	5.00	2:00	7.00	4.00	2.00	9.00	6.00	9.00	2.00	4.00	2.00
31.30	32.00	10.70	32.50	10.80	10.30	10.50	11.00	31.30	30.00	32.50	10.90	32.20	30.30	31.00	31.00	32.20	32.20	31.30	10.90	10.70	31.30	10.80	30.30	30.30	31.20	10.80	10.80	10.70	10.60

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Band D	INDUSTRIAL MAKURDI	9.73	2.29	856.00	2.00	11.00	9.73	1.72	856.00	6.00	11 00
BandD	BAUCHI RING RD	9.68	3.83	859.47	9	10.40	9.68	2 87	950 47	200	200
Band D	GRAGOMBE	0 57	0.70	966 07	8	0000	00.0	70.7	19750	2.00	10.50
	TOWN COLOR	100	67.0	00000	9.	10.80	9.57	0.59	866.07	6.00	10.80
Dang D	BAPIISI	9.43	3,53	874.35	90.9	10.40	9.43	2.64	874.35	2.00	10.50
Band D	NASME	9.07	3.15	896.00	6.00	10.70	9.07	2.36	896.00	5.00	10.70
Band D	UNIAGRIC	8.80	2.03	912.00	5.00	11.00	8.80	1.52	912.00	4.00	11.00
BandD	MALLAM INNA	8.36	1.28	938.22	7.00	10.80	8.36	96'0	938.22	6.00	10.80
BandD	BCGA	8.26	8.33	944.25	6.00	10.80	8.26	6.24	944.25	5.00	10.80
Bando	JAMAARE	8.26	3.38	944.52	7.00	32.80	8.26	2.53	944.52	6.00	32.80
Band D	881	7.87	1.20	968.00	5.00	10.80	7.87	0.90	968.00	4.00	10.80
Band D	STADIUM	7.67	2.14	979.81	5.00	10.40	197	1.60	979.81	4.00	10.50
8and D	AMINU STREET	7.61	2.25	983,35	2.00	10.40	7.61	1.69	983.35	4.00	10.50
Band E	MUDA LAWAL	11.41	3.38	755.28	5.00	10.40	11.41	2.53	755.28	4.00	10.50
Band E	PANKSHIN FCE	11.41	4.65	755.43	4.00	9.90	11.41	3.49	755.43	3.00	10.00
Band E	POLICE STAFF COLLEGE/POLY	11.11	7.20	773.65	9.00	10.50	11.11	5.40	773.65	2.00	10.50
8and E	DARAZO/DUKKU	10.82	4.50	790.78	8.00	30.00	10.82	3.38	790.78	7.00	30.30
Band E	BANK ROAD	10.70	2.96	797.91	5.00	10.30	10.70	2.22	797.91	4.00	10.30
Band E	INDUSTRIAL BAUCHI	10.65	3.19	800.78	2.00	10.30	10.65	2.39	800.78	4.00	10.30
Band E	SCIENCE SCH. KURU	10.57	8.44	805.90	90.9	10.50	10.57	6.33	805.90	5.00	10.50
Band E	MANGU TOWN	10.57	6.49	805.91	5.00	10.50	10.57	4.87	805.91	4.00	9.80
Sand E	GBOKO/ADIKPO	10.01	3,60	836.00	00.9	29.00	10.01	2.70	836.00	2.00	29.50
Band E	MISAU	10.03	4.05	838.15	2.00	32.90	10.03	3.04	838.15	6.00	32.90
Band E	RAILWAY	10.02	3.11	839.03	6.00	10.50	10.02	2.33	839.03	5.00	10.50
Band E	BARRACK	10.00	6.75	839.93	00.9	10.30	10.00	5.06	839.93	5.00	10.50
Band E	RAN ROAD	9.95	3.26	843.10	00'9	10.40	9.95	2.45	843.10	5.00	10.50
Band E	MISAUTOWN	9.83	3,04	850.31	6.00	10.80	9.83	2.28	850.31	5.00	10.80
Band E	ZARTEX	69.6	6.75	858.38	6.00	10.00	69.6	5.06	858.38	2:00	10.00
Band E	MADARA/VOM TOWN	9.64	1.73	861.69	00'9	10.20	9.64	1.29	861.69	2.00	10.20
Sand E	OLD ENUGUROAD	9.60	4.24	864.00	2:00	10.90	9.60	3.18	864.00	4.00	10.90
Band E	PILGANI	9.60	4.61	864.00	00'9	9.00	9.60	3.46	864.00	2,00	9.20
Band E	VANDEKYA	9.55	3.60	867.04	6.00	30.00	9.55	2.70	867.04	5.00	30.00
Band E	KALSHINGI TOWN II	9.54	1.73	867.45	00'9	10.90	9.54	1.29	867.45	2:00	10.90
Band E	BENPOLY	9.53	1.76	868.00	6.00	29.00	9.53	1.32	868.00	2.00	30.00
Band E	SARIKIN LADI TOWN	9.43	4.91	874.38	6.00	10.00	9.43	3.68	874.38	2.00	10.30
Band E	SHIRA-YANA	9.20	1.58	888.08	6.00	10.50	9.20	1.18	888.08	200	10.50

OR D MADE

Band E	UGBOKOLO	9.18	1.76	889.18	2.00	10.50	9.18	2.05	889.18	8 8	18 4.00
Band E	COE/FIRE SERVICE	9.11	2.78	893.49	2.00	11.00	9.11	2.08	893.49		
Band E	NAFADA TOWN	9.05	2.81	896,95	9.00	10.80	9.05	2.11	896.95	ш	5.00
Band E	GRA AZARE	9.01	2.93	899.37	2.00	10.50	9,01	2.19	899.37	ш	4.00
Band E	GRA MISAU	8.98	1.84	900.92	6.00	10.80	8.98	1.38	900.92		2.00
Band E	GINDIRI	8.95	6.23	902.77	6.00	10.50	8.95	4.67	902.77	1	2.00
Band E	FGC/RADIO MONITORING	8.93	2.70	904.06	5.00	11.00	8.93	2.03	904.06		4.00
Band E	TUDUN WADA GOMBE	8.77	1.50	913.89	6.00	10.90	8.77	1.13	913,89		5.00
Band E	FED. LOW COST GOMBE	8.74	1.43	915.65	6.00	10.90	8.74	1.07	915.65		2.00
Band E	OTADA	8.67	3.38	920.00	2.00	10.50	8.67	2.53	920.00		4.00
Band E	IGBANOMAJE	8.60	3.19	924.00	5.00	10.50	8.60	2.39	924.00		4.00
Band E	GAMES VILLAGE				00.00		8.47		932.00		
Band E	J.D. GOMWALK	8.43	5.70	934.33	9.00	9.70	8.43	4.28	934.33		5.00
Band E	GENERAL HOSPITAL PANKSHIN	8.39	5.59	936.35	6.00	9.70	8.39	4.19	936.35		5.00
Band E	HARDAWA	8.27	1.84	943.65	00'9	10.80	8.27	1.38	943.65	4	5.00
Band E	KUMO TOWN 11KV	7.96	1.76	962.63	6.00	10.90	7.96	1.32	962.63	1	5.00
Band E	JAMAARE 11KV	7.89	1.58	966.32	6.00	10.80	7.89	1.18	966.32	_	5.00
Band E	KALSHINGI TOWN I	7.81	1.73	971.45	6.00	10.90	7.81	1.29	971.45	_	2.00
Band E	BOGOROI	6.71	5.63	1037.43	2.00	11.00	6.71	4.22	1037.43	-	4.00
Band €	BOGORO II	6.70	5.63	1037.94	2.00	11.00	6.70	4.22	1037,94	_	4.00
Band E	TOTAL	6.27	4.65	1064.00	6.00	8.70	6.27	3.49	1064.00		5.00
Band E	GRA SHENDAM	6.27	4.69	1064.00	00'9	8.70	6.27	3.52	1064.00	-	2.00
Band E	SHENDAM BARRACKS	6.27	4.61	1064.00	00.9	8.70	6.27	3.46	1064.00	-	2.00
Band E	PAJAT	6.27	5.03	1064.00	6.00	9.00	6.27	3.77	1064.00	_	2.00
Band E	KUFFEN	6.27	5.25	1064.00	6.00	9.00	6.27	3.94	1064.00		2,00
Band E	WASE GARKUWA	6.27	4.61	1064.00	9.00	9.00	6.27	3.46	1064.00		2.00
Band E	WASE PRISON	5.47	4.61	1112.00	9.00	9:00	5.47	3.46	1112.00		2:00
Band E	DENGI TOWN	5.47	4.61	1112.00	9.00	9.00	5.47	3.46	1112.00		2.00
Band E	EMIR PALACE	4.00	2.18	1200:00	6.00	10 90	400	1 62	410000	₽	



