



ORDER/NERC/2024/145

**BEFORE THE NIGERIAN ELECTRICITY REGULATORY COMMISSION  
IN THE MATTER OF NOVEMBER 2024 SUPPLEMENTARY ORDER TO THE MULTI-YEAR  
TARIFF ORDER 2024 FOR KANO ELECTRICITY DISTRIBUTION PLC**

**TITLE**

1. This regulatory instrument shall be cited as **November 2024 Supplementary Order to the Multi-Year Tariff Order - 2024** ("November 2024 Supplementary Order") for Kano Electricity Distribution Plc ("KEDCO").

**COMMENCEMENT AND TERMINATION**

2. This Supplementary Order shall take effect from **1st November 2024** and it shall cease to be effective on the issuance of a new tariff review Order for KEDCO by the Nigerian Electricity Regulatory Commission ("NERC" or the "Commission").

**CONTEXT**

3. Pursuant to the Tariff Review Application by KEDCO, the Commission approved MYTO-2024 effective from 1<sup>st</sup> January 2024. The Order among others;
  - a. Restated KEDCO's Performance Improvement Plan ("PIP") and approved a revised 5-year CAPEX provision to finance planned CAPEX projects. The Order further applied regulatory adjustments to the verified historical investments of KEDCO;
  - b. Approved a reset of the baseline ATC&C loss level to a new target considered to be fair and reasonable given current operating conditions and comparable benchmarks within and outside the Nigerian Electricity Supply Industry ("NESI");
  - c. Revised relevant assumptions for the forecast of revenue requirements and applicable tariffs for the period 2024 - 2027;

**OBJECTIVE**

4. Further to Section 23 of the MYTO-2024, this Supplementary Order seeks to reflect the changes in the pass-through indices outside the control of licensees including inflation rates, ₦/US\$ exchange rate, available generation capacity and gas price for the determination of Cost-Reflective Tariffs ("CRT").

## BASIS FOR THE REVIEW

### 5. Minor Review Indices

The underlisted indices with potential impact on electricity rates were considered to determine KEDCO's revised revenue requirements and associated tariffs:

- a. **Exchange Rate:** The Naira to the US Dollar exchange rate of **₦1,654.17/US\$1** has been adopted for November – December 2024; this has been determined by adding a 1% transaction cost to the average foreign exchange rate of **₦1,637.79** during the period of 1<sup>st</sup> – 28<sup>th</sup> October 2024 as obtained from the website of the Central Bank of Nigeria ("CBN") in line with the MYTO methodology.
- b. **Nigerian Inflation Rate:** The Nigerian inflation rate of **32.70%** for September 2024 as published by the National Bureau of Statistics ("NBS") is applied to revise the Nigerian inflation rate projection for 2024.
- c. **US Inflation Rate:** Based on the data published by the United States Bureau of Labor Statistics (<http://www.bls.gov>), the US inflation rate of **2.40%** for September 2024 is applied to revise the US Inflation rate projection for 2024.
- d. **Available Generation Capacity:** Considering the periodic reports from the System Operator, the review maintains the January 2024 projection of an average offtake of **268MWh/h** by KEDCO in 2024.
- e. **Wholesale Gas to Power Prices:**
  - i. The review maintains the benchmark gas-to-power price of **US\$2.42/MMBTU** based on the established benchmark price of gas-to-power by the Nigerian Midstream and Downstream Petroleum Regulatory Authority ("NMDPRA") in line with Section 167 of the Petroleum Industry Act ("PIA") 2021
  - ii. Contracted gas supply and transportation prices outside Domestic Gas Delivery Obligation quantities are based on effective Gas Sale Agreements ("GSAs") approved by the Commission.
  - iii. Benchmark Gas Transportation tariff of **US\$0.80/MMBTU**.

### 6. Regulatory Net-offs for Non-Adherence to the Order on Non-Compliance with Capping of Estimated Bills

Pursuant to the Commission's Order NERC/2024/004 on Non-compliance with the Capping of Estimated Bills and subsequent petition hearings and review of data further provided by KEDCO the Commission has approved the deduction of **₦20Mn** from the total annual OpEx of KEDCO effective September 2024, being the 10% of the overbilled amount by KEDCO for the period covering January–September 2023.

## 7. Summary of Tariff Assumptions and Results

Table 1 below summarises the tariff review indices adopted in this Order.

**Table - 1: Key Tariff Review Indices/Assumptions for KEDCO**

Parameter	Unit	Sep 2024	Oct 2024	Nov 2024
Loss Target	%	25.00%	25.00%	25.00%
Nigerian Inflation	%	33.4%	32.2%	32.7%
US Inflation	%	2.9%	2.5%	2.4%
Exchange Rate	₦/\$	1601.5	1637.1	1654.2
Gas Supply and Transportation Cost	\$/MMBTU	3.22	3.22	3.22
Transmission Loss Factor	%	7.00%	7.00%	7.00%
Energy Delivered to DisCo	GWh/Year	2,352	2,352	2,352
Energy Delivered to DisCo	MWh/h	268	268	268
Generation Cost	₦/kWh	113.7	116.1	117.3
Transmission & Admin Cost	₦/kWh	10.5	10.6	10.7
Weighted Average Cost Reflective Tariff	₦/kWh	<b>204.1</b>	<b>206.5</b>	<b>208.3</b>
Weighted Average Allowed Tariff	₦/kWh	<b>115.9</b>	<b>115.9</b>	<b>115.9</b>
Monthly Tariff Shortfall (Subsidy)	₦' Million	<b>12,960</b>	<b>13,311</b>	<b>13,582</b>

## 8. Approved End-User Tariffs Effective from 1st November 2024

Pursuant to Section 116 of the EA and extant regulations, the Commission has considered and approved for KEDCO, the tariffs in Table 2 below effective 1st November 2024. The approved tariffs shall remain in force subject to monthly adjustments of pass-through indices including inflation rates, NGN/US\$ exchange rates and gas-to-power prices.

In line with the policy direction of the FGN on electricity subsidy, **the allowed tariffs for Bands B – E customer categories shall remain frozen at the rates payable since December 2022** subject to further policy direction by the Government. With this policy, the estimated subsidy benefit for customers under the KEDCO franchise in 2024 is approximately **₦13.58bn** monthly.

Table - 2: Approved Allowed Tariffs (₦/kWh) for KEDCO

Tariff Class	Apr 2024	May - Jun 2024	Jul - Nov 2024
Life-line	4.00	4.00	4.00
A - Non-MD	225.00	206.80	209.50
A - MD1	225.00	206.80	209.50
A - MD2	225.00	206.80	209.50
B - Non-MD	65.29	65.29	65.29
B - MD1	68.13	68.13	68.13
B - MD2	71.11	71.11	71.11
C - Non-MD	47.57	47.57	47.57
C - MD1	49.51	49.51	49.51
C - MD2	54.01	54.01	54.01
D - Non-MD	32.02	32.02	32.02
D - MD1	47.58	47.58	47.58
D - MD2	47.58	47.58	47.58
E - Non-MD	31.88	31.88	31.88
E - MD1	47.58	47.58	47.58
E - MD2	47.58	47.58	47.58

9. **Service Delivery Commitments**

KEDCO shall be held accountable for service deliveries per commitments under its Service Based Tariff proposals that seek to align end-user tariffs in proportion to the service level enjoyed by customer clusters as measured in average hours of supply per day over one month. Details of the service level commitments made by KEDCO to customers in various tariff Bands for **November 2024** are shown in the Appendix 2 - 4.

10. **Monitoring and Evaluation of Compliance to Service Commitment**

- a. The Commission shall continue to leverage technology to directly obtain data on the hours of supply on each Band A feeder from the head-end system of KEDCO for near real-time monitoring of service.
- b. KEDCO shall maintain a rapid response team to ensure effective service delivery on the committed minimum hours of supply to each service Band commencing with Band A feeders. The team shall continue to ensure timely response to customers' complaints, fault clearing and alignment with TCN regional teams for effective load management and optimised dispatch to respective feeders. KEDCO shall maintain the dedicated email and contact numbers of the service rapid response team for each customer cluster/business unit on its website and continue to circulate the same to the customers via bulk SMS and social media handles.
- c. KEDCO is obligated to publish daily on its website a rolling 7-day average daily hours of supply on each Band A feeder **no later than 09:00 am of the next day.**

- d. Where KEDCO fails to deliver on the committed level of service on a Band A feeder for consecutive two days, KEDCO shall on the next day by 10.00 am publish on its website an explanation of the reasons for the failure and update the affected customers on the timeline for restoration of service to the committed service level.
- e. Where KEDCO fails to meet the committed service level to a Band A feeder for seven (7) consecutive days, the feeder shall be automatically downgraded to the recorded level of supply pursuant to provisions of Section 6 of Order No. **NERC/334/2022 - "Order on Migration of Customers and Compensation for Service Failure under Service-Based Tariff Framework"**.
- f. KEDCO is mandated to continuously ensure upward migration of customers from the lower service Bands to Band A service level in line with the target on improvement in quality of service as provided in the Order on Key Performance Indicators for KEDCO issued from time to time by the Commission.

#### 11. **Service Band Performance, Migration/Downgrade and Compensation**

Pursuant to the provisions of the **Order on Migration of Customers and Compensation for Service Failure under the Service-Based Tariff Framework ("Order on Migration")** and the **Directive to Electricity Distribution Companies on Band A Feeder Performance Monitoring, Upgrade and Downgrade ("Directive for Operationalization of Band A Feeders")**, the Commission, based on the feeder performance report for the 1<sup>st</sup> - 25<sup>th</sup> of October 2024, hereby orders as follows:

- a. KEDCO shall downgrade the Band A feeders listed in Appendix 2 to the commensurate level of supply and make appropriate compensation to the affected customers in line with the provisions of the Order on Migration.
- b. KEDCO shall make appropriate compensation to the affected customers in Band A feeders listed in Appendix 3 for failure to deliver up to 20 hours of average supply but more than 18 hours of average supply in line with the provisions of the Order on Migration while the feeders shall remain as Band A.

#### 12. **Procurement of Embedded Generation**

KEDCO is obligated by this Order to procure a minimum of **27MW** capacity of embedded generation, being 10% of its 2024 load allocation, to improve supply reliability and sustain delivery of a minimum service level under the SBT. A minimum of **14MW** (i.e., 50%) of the embedded generation capacity must be sourced from renewable energy sources. The required capacity may be procured in bulk or distributed capacities across KEDCO's Franchise area. The capacity to be procured should be ready for dispatch to the KEDCO's network by the 1st of April 2025.

### 13. KEDCO's Remittance Obligation

The FGN policy on subsidy and electricity tariffs provides for a gradual transition to cost-reflective end-user tariffs with safeguards for the less privileged electricity consumers. Accordingly, the Federal Government has committed to funding the revenue gap arising from the difference between cost-reflective tariffs approved by the Commission and the actual end-user tariffs during the transition to cost-reflective tariffs where applicable. KEDCO shall settle its market invoices under the DisCo Remittance Obligation thresholds as provided in Table 3. All settlements are subject to regulatory net-offs as may be issued from time to time by the Commission.

**Table - 3: Monthly DisCo Remittance Obligation for KEDCO, 2024**

Head	Sub Head	Sep 2024 Revision	Oct 2024 Revision	Nov 2024 Revision
		₦'Million	₦'Million	₦'Million
Revenue Required	NEMSF	225	225	225
	Meter Acquisition Fund	174	174	174
	Unadjusted GenCo Invoice	20,905	21,277	21,555
	ZHEPP Invoice	1,377	1,474	1,427
	TCN & Admin Services	2,061	2,083	2,099
	DisCo	5,106	5,112	5,136
	Total	29,848	30,345	30,615
Allowed Recovery		<b>17,034</b>	<b>17,034</b>	<b>17,034</b>
2023 Under Recovery B/F		-	-	-
Tariff Shortfall (Subsidy)		<b>12,814</b>	<b>13,311</b>	<b>13,582</b>
NBET Adjusted Invoice to KEDCO		<b>8,091</b>	<b>7,966</b>	<b>7,973</b>
DisCo Remittance Obligation	NEMSF	225	225	225
	Meter Acquisition Fund	174	174	174
	NBET Remittance Obligation	8,091	7,966	7,973
	ZHEPP Remittance Obligation	1,377	1,474	1,427
	MO Remittance Obligation	2,061	2,083	2,099
	DisCo	5,106	5,112	5,136
	Total Distribution	<b>17,034</b>	<b>17,034</b>	<b>17,034</b>
DisCo Remittance to NBET		<b>100%</b>	<b>100%</b>	<b>100%</b>
DisCo Remittance to ZHEPP		<b>100%</b>	<b>100%</b>	<b>100%</b>
DisCo Remittance to MO		<b>100%</b>	<b>100%</b>	<b>100%</b>

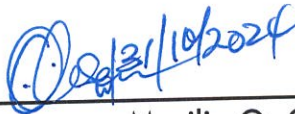
14. The waterfall of market revenues during the transitional period shall be in line with the following:
- a. NBET shall issue energy invoices to KEDCO net of the applicable tariff shortfall approved by the Commission monthly, while MO shall issue the full transmission and administrative services invoices to KEDCO at the applicable tariff.
  - b. KEDCO shall make full settlement (100%) of the market invoices issued by MO (including Zungeru Power Plant) and NBET as provided in Table 3 above.
  - c. FGN intervention from budgetary appropriation and other sources for funding tariff shortfall shall be applied by NBET to ensure 100% settlement of market invoices as issued by generating companies ("GenCos").
  - d. KEDCO shall be liable to relevant penalties/sanctions for failure to meet the payment obligation in any payment cycle under the terms of its respective contracts with bilateral counterparties including NBET and MO.
  - e. KEDCO shall maintain adequate payment securitisation for energy off-take in line with the earlier directive of the Commission and relevant bilateral contracts.
  - f. KEDCO shall settle its market invoices under the DisCo Remittance Obligation thresholds as provided in Table 3. All settlements are subject to regulatory net-offs as may be issued from time to time by the Commission.

15. **Effective Date**

This Supplementary Order shall be effective from 1st November 2024.

Dated this 31<sup>st</sup> day of October 2024

  
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Sanusi Garba  
Chairman

  
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Musiliu O. Oseni  
Vice-Chairman



### Appendix - 1: KEDCO'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 connections 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 connections 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 connections 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 connections 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
D (Minimum of 4hrs/day)	E - Non-MD	Customers with single or three-phase connections 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



**Appendix - 2: Feeders for Downgrade and Compensation of Customers Due to Failure of Service**

S/N	FEEDER NAME	DESCRIPTION OF FEEDER LOCATION	NAME OF MAJOR STREETS SERVED BY THE FEEDER	1ST - 25TH SEPTEMBER AVE PERFORMANCE	CURRENT BAND	REMARK
1	11KV BANK ROAD	CLUB INJECTION SUBSTATION	BANK ROAD KANO	17.82352941	A	DOWNGRADE TO BAND B AND COMPENSATE CUSTOMERS ACCORDINGLY

**Appendix - 3: Feeders for Compensation of Customers Only Due to Failure of Service**

S/N	FEEDER NAME	DESCRIPTION OF FEEDER LOCATION	NAME OF MAJOR STREETS SERVED BY THE FEEDER	1ST - 25TH OCTOBER AVE PERFORMANCE	CURRENT BAND	REMARK
1	11KV AHMADU BELLO	CLUB INJECTION SUBSTATION	AHMADU BELLO WAY AND MURTALA MUHD WAY KANO	19.35	A	CUSTOMERS TO BE COMPENSATED
2	11KV AUDU BAKO	CLUB INJECTION SUBSTATION	AHMADU BELLO WAY AND MURTALA MUHD WAY KANO	18.06	A	CUSTOMERS TO BE COMPENSATED
3	11KV FANTAI	HADEJIA NIPP INJECTION SUBSTATION	BANK ROAD, KANO ROAD HADEJIA JIGAWA STATE	19.12	A	CUSTOMERS TO BE COMPENSATED
4	33KV FLOUR MILLS	DAKATA TS	DAKATA SMALL SCALE AND BOMPAL AREA.	19.47	A	CUSTOMERS TO BE COMPENSATED
5	33KV KAFIN HAUSA	HADEJIA TS	HADEJIA, K/HAUSA AND KANO ROAD JIGAWA STATE	19.00	A	CUSTOMERS TO BE COMPENSATED

**Appendix - 4: KEDCO's Service Level Commitments for November 2024**

S/N	BAND	FEEDER NAME	DESCRIPTION OF FEEDER LOCATION	NAME OF MAJOR STREETS SERVED BY THE FEEDER	MIN. SUPPLY DURATION (HRS)
1	A	11KV APEX	FADAMA INJECTION SUBSTATION	CBN, KATSINA	20
2	A	11KV BOMPAL	BRISCOE INJECTION SUBSTATION	BOMPAL ROAD KANO	20
3	A	11KV CERAMIC	ABATTOIR INJECTION SUBSTATION	CHALAWA INDUSTRIAL AREA	20
4	A	11KV CHALAWA WATER PLANT	CHALAWA INJECTION SUBSTATION	WATER PLANT CHALAWA	20
5	A	11KV DALA FOODS	GONGONI INJECTION SUBSTATION	SHARADA INDUSTRIAL KANO	20
6	A	11KV FUNTUA TEXTILE MILL	TEXTILE INJECTION SUBSTATION	FUNTUA TEXTILE MILL	20
7	A	11KV FUNTUA WATER WORKS	TEXTILE INJECTION SUBSTATION	FUNTUA WATER WORKS	20
8	A	11KV GWARZO ROAD	BUK INJECTION SUBSTATION	R/ZAKI ALONG GWARZO ROAD, BARAKAT STORE, JAIZ BANK AND ZENITH BANK.	20
9	A	11KV INDUSTRIAL	KATSINA ROAD INJECTION SUBSTATION	FUNTUA INDUSTRIAL	20
10	A	11KV NBC	ABATTOIR INJECTION SUBSTATION	CHALAWA INDUSTRIAL AREA	20
11	A	11KV RIJIMA RICE	DAURA INJECTION SUBSTATION	RIJIMA BARACK, KATSINA	20

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S/N	BAND	FEEDER NAME	DESCRIPTION OF FEEDER LOCATION	NAME OF MAJOR STREETS SERVED BY THE FEEDER	MIN. SUPPLY DURATION (HRS)
12	A	11KV TAMBURAWA WATER PLANT	TAMBURAWA INJECTION SUBSTATION	WATER PLANT TAMBURAWA	20
13	A	11KV WUDIL COMMERCIAL	WUDIL INJECTION SUBSTATION	GAYA ROAD WUDIL COMMERCIAL AREA	20
14	A	11KV YUSUF ROAD	BRISCOE INJECTION SUBSTATION	YUSUF ROAD KANO	20
15	A	33KV AIWA WATER WORKS	KATSINA TS	NEW GOVT HOUSE, SSS OFFICE, INEC TOURIST LODGE, AIWA WATER TREATMENT	20
16	A	33KV ANGELS	KUMBOTSO TS	SHARADA INDUSTRIAL AREA	20
17	A	33KV ATM	KUMBOTSO TS	CHALLAWA INDUSTRIAL AREA	20
18	A	33KV CHALLAWA WATER WORKS	TAMBURAWA TS	WATER PLANT CHALLAWA	20
19	A	33KV CLUB	DAN AGUNDI TS	KANO CLUB INJECTION SUBSTATION	20
20	A	33KV COCA COLA	TAMBURAWA TS	CHALLAWA INDUSTRIAL AREA	20
21	A	33KV DAN AGUNDI 1	DAN AGUNDI TS	DANAGUNDI INJECTION SUB STATION KANO CITY	20
22	A	33KV DANGOTE	KUMBOTSO TS	SHARADA INDUSTRIAL AREA	20
23	A	33KV DAURA	DAURA TS	DAURA INJECTION SUBSTATION DAURA	20
24	A	33KV DUTSE	DUTSE TS	FUD, DUTSE.	20
25	A	33KV GASKIYA	DAKATA TS	KAWALI INDUSTRIAL AREA	20
26	A	33KV KATSINA ROAD	FUNTUA TS	KATSINA ROAD INJECTION SUBSTATION, FUNTUA	20
27	A	33KV MAMUDA	KUMBOTSO TS	CHALLAWA INDUSTRIAL AREA	20
28	A	33KV MTN	DAKATA TS	BOMPAL INDUSTRIAL AREA	20
29	A	33KV NB CERAMIC	DANGORA TS	NB CERAMIC CO K/DANGORA, ZARIA ROAD KANO	20
30	A	33KV NNPC	DAKATA TS	HOTORO NNPC BYE BASS, TINSHAMA AND LADANAI AREA.	20
31	A	33KV POWER HOUSE	KATSINA TS	IBB WAY INJECTION SUB STATION KATSINA URBAN	20
32	A	33KV RICE FIELD	TAMBURAWA TS	GWARZO ROAD, INDUSTRIAL AREA	20
33	A	33KV SHARADA BATA	KUMBOTSO TS	SHARADA BATA INJECTION SUBSTATION	20
34	A	33KV SMALL SCALE	DAKATA TS	DAKATA SMALL SCALE	20
35	A	33KV SPANISH 1	KUMBOTSO TS	SHARADA INDUSTRIAL AREA	20
36	A	33KV SPANISH 2	KUMBOTSO TS	SHARADA INDUSTRIAL AREA	20
37	A	33KV TAMBURAWA WATER WORKS	TAMBURAWA TS	WATER TREATMENT PLANT TAMBURAWA	20
38	A	33KV TEXTILE	FUNTUA TS	FUNTUA TEXTILE, MAIRUWA ROAD FUNTUA	20
39	A	33KV WUDIL	WUDIL TS	KUST, WUDIL	20
40	A	33KV ZARIA ROAD	DAN AGUNDI TS	AKTH, NA'IBAWA, ZARIA ROAD KANO	20
41	A	11KV MAIMALARI	BRISCOE INJECTION SUBSTATION	MAIMALARI BOMPAL KANO	20
42	A	11KV NANSINTA	KOFAR GUGA INJECTION SUBSTATION	NANSINTA BARRACK, KATSINA	20
43	A	11KV TOKARAWA	DAKATA TS	FRANCE ROAD, KANO	20
44	A	33KV CBN	DAN AGUNDI TS	ADO BAYERO MALL, BRISTOL HOTEL, STATE ROAD, AUDU BAKO WAY AND POST OFFICE ROAD KANO	20
45	A	33KV KOFAR GUGA	KATSINA TS	FEDERAL TEACHING HOSPITAL KATSINA	20
46	A	33KV HADEIJA	HADEIJA TS	HADEIJA, BIRNIWA, UNIVERSITY, GUMEL, KAFIN HAUSA	20
47	A	33KV RICE MILLS	GAGARAWA TS	GJUNGU, JIGAWA RICE MILLS, GAGARAWA	20
48	A	33KV UNIVERSITY	HADEIJA TS	HADEIJA, BIRNIWA, UNIVERSITY, GUMEL, KAFIN HAUSA	20

S/N	BAND	FEDDER NAME	DESCRIPTION OF FEDDER LOCATION	NAME OF MAJOR STREETS SERVED BY THE FEDDER	MIN. SUPPLY DURATION (HRS)
49	A	11KV DR BALA	FARM CENTRE INJECTION SUBSTATION	DR BALA ROAD, COMMISSIONER AND STATE ROADS.	20
50	B	11KV ABUJA ROAD	IDH INJECTION SUBSTATION	FRANCE ROAD, COURT ROAD AND MIDDLE ROAD.	16
51	B	11KV AIRPORT ROAD	PRP INJECTION SUBSTATION	AIRPORT ROAD, FOUNTAIN ESTATE AND JABA AREA.	16
52	B	11KV AJASA	DAN AGUNDI INJECTION SUBSTATION	KANO TRADE FARE, ZOO ROAD AND AJASA	16
53	B	11KV BADAWA	CLUB INJECTION SUBSTATION	BADAWA LAYOUT, LAMIDO CRESCENT AND SARDAUNA CRESCENT.	16
54	B	11KV BAYAUDDA	DAURA INJECTION SUBSTATION	DAURA METROPOLITAN	16
55	B	11KV BELIO DANDAGO	RADIO HOUSE INJECTION SUBSTATION	RADIO HOUSE.	16
56	B	11KV DAKATA	KAWAJI INJECTION SUBSTATION	DAKATA AND KAWAJI AREA.	16
57	B	11KV DANDAGORO	IBB WAY INJECTION SUBSTATION	FEDERAL SECRETARIAT KATSINA AND DANDAGORO	16
58	B	11KV DANILADI NASIDI	MARI INJECTION SUBSTATION	DANILADI NASIDI HOUSING ESTATE.	16
59	B	11KV DAURAMA	DAURA INJECTION SUBSTATION	DAURA METROPOLITAN	16
60	B	11KV GARU	DUTSE INJECTION SUBSTATION	FAGOJI AND GARU EMIRS PALACE ROAD.	16
61	B	11KV GOVERNMENT HOUSE DUTSE	DUTSE INJECTION SUBSTATION	GOVERNMENT HOUSE AND MINISTRY OF LAND DUTSE.	16
62	B	11KV HASSAN USMAN ROAD	FADAMA INJECTION SUBSTATION	HASSAN USMAN KATSINA ROAD AND GRA KATSINA.	16
63	B	11KV HAUSAWA	ZARIA ROAD INJECTION SUBSTATION	BAWO ROAD AND HAUSAWA MASALACHIN MURTALA ROAD.	16
64	B	11KV HOUSING ESTATE	SHARADA INJECTION SUBSTATION	HOUSING ESTATE AREA.	16
65	B	11KV IBRAHIM TAIWO	DAN AGUNDI INJECTION SUBSTATION	IBRAHIM TAIWO ROAD, KOFAR DAN AGUNDI AND KWARI MARKET	16
66	B	11KV INDEPENDENCE	BRISCOE INJECTION SUBSTATION	INDEPENDENCE ROAD, GAWAJUNA AND KINGS GARDEN AREA.	16
67	B	11KV KABUGA	GORON DUTSE INJECTION SUBSTATION	GADON KAYA, SALANTA AND KUNTAU AREA.	16
68	B	11KV KADARKO	FADAMA INJECTION SUBSTATION	KADARKO AREA, KATSINA	16
69	B	11KV KARKASARA	ZARIA ROAD INJECTION SUBSTATION	KARKASARA, HASSAN GWARZO SECONDARY AND ROYAL CITY ESTATE.	16
70	B	11KV LAMBISA	FARM CENTER INJECTION SUBSTATION	HOTORO GRA, MAIDUGURI ROAD, KANO	16
71	B	11KV LOW COST	IBB WAY NIPP INJECTION SUBSTATION	LOW COST, KATSINA	16
72	B	11KV MAJE	HADEJIA INJECTION SUBSTATION	MALAM MADORI ROAD.	16
73	B	11KV MAJESTIC	BIRNIN KUDU INJECTION SUBSTATION	MAJESTIC RICE COMPANY.	16
74	B	11KV MASARAUTA	NAIBAWA INJECTION SUBSTATION	NAIBAWA ZARIA ROAD AND SAADATU RIMI COLLEGE OF EDUCATION.	16
75	B	11KV MURTALA MUHAMMED	CLUB INJECTION SUBSTATION	MURTALA MOHD WAY, FRANCCERROAD AND IGBO ROAD	16
76	B	11KV NEW SITE	BUK INJECTION SUBSTATION	BUK NEW CAMPUS.	16
77	B	11KV NINDC	SHARADA INJECTION SUBSTATION	NINDC AND SHARADA AREA.	16
78	B	11KV NOMANSLAND	BUKAYU INJECTION SUBSTATION	NOMANSLAND AND KATSINA ROAD AREAS.	16
79	B	11KV RACE COURSE	CLUB INJECTION SUBSTATION	RACE COURSE ROAD, ALU AVENUE AND LAMIDO CRESCENT.	16
80	B	11KV SABON GARI	IDH INJECTION SUBSTATION	WEATHER HEAD, BAMA ROAD, GOLD COAST, JEBU BALATUS AND ENUGU ROAD.	16
81	B	11KV SANI ABACHA WAY	DUTSE NIPP INJECTION SUBSTATION	BANK ROAD DUTSE AND G9 QUARTERS AREA.	16
82	B	11KV SHAGARI	HADEJIA INJECTION SUBSTATION	SHAGARI QUARTERS AND GRA HADEJIA	16
83	B	11KV SHARADA INDUSTRIAL	SHARADA INJECTION SUBSTATION	GIDAN MAZA, MEDILE AND SABUWAR GANDU AREA.	16
84	B	11KV TAKUR	DUTSE NIPP INJECTION SUBSTATION	TAKUR HOUSING ESTATE AND POLICE HEAD QUARTERS.	16
85	B	11KV TARUNI	FARM CENTER INJECTION SUBSTATION	TARAUNI AND DAURAWA QUARTERS.	16
86	B	11KV YANKABA	KAWAJI INJECTION SUBSTATION	KAWAJI, YANKABA HADEJIA ROAD.	16

S/N	BAND	FEEDER NAME	DESCRIPTION OF FEEDER LOCATION	NAME OF MAJOR STREETS SERVED BY THE FEEDER	MIN. SUPPLY DURATION (HRS)
87	B	11KV YANIEMO	NAIBAWA INJECTION SUBSTATION	NAIBAWA ZARIA ROAD AND YANKATAKO AREA AND MAIKAIWA AREA.	16
88	B	33KV AMPRI GLOBAL	KANKIA TS	AMPRI GLOBAL KANKIA AND ZONE WATER TREATMENT PLANT, DUTSINMA	16
89	B	33KV BIRNIN KUDU	DUTSE TS	KWANAR HUGUMA, YAIWAN DAMAI AND GWARAM TOWN.	16
90	B	33KV BUK	DAN AGUNDI TS	BUK ROAD, TUDUN YOLA AND R/ZAKI AREA.	16
91	B	33KV DAN AGUNDI 2	DAN AGUNDI TS	DAN AGUNDI INJECTION SUBSTATION, BUK ROAD, KANO	16
92	B	33KV GAGARAWA	GAGARAWA TS	GAGARAWA TOWN ALONG HADEJIA ROAD.	16
93	B	33KV KAITA	KATSINA TS	KAITA, DANKAMA, MAKURDA AND HIGH COURT, KATSINA.	16
94	B	33KV KURNA	DAN AGUNDI TS	NORTH WEST CITY CAMPUS, ABATTIOR AREA, HAJI CAMP, AMINU KANO AIRPORT AND AIRFORCE BASE.	16
95	B	33KV MAMMAN NASIR	FUNTUA TS	FUNTUA ROAD, MALUMFASHI INJECTION SUBSTATION.	16
96	B	33KV MUSAWA	KANKIA TS	KUSADA, JIKAMSHI, TSANYAWA AND GHARI.	16
97	B	33KV RIYYAR ZAKI	TAMBURAWA TS	KUYAN TA INNA MADABI ROAD, DANBARE, BUK NEW SITE AND R/ZAKI AREA.	16
98	B	33KV IDH	DAKATA TS	FRANCE ROAD, KANO	12
99	C	11KV AMINU KANO	GORON DUTSE INJECTION SUBSTATION	KOFAR KANKASALI ROAD, TUDUN YOLA, BALALABE AND RIMIN ZAKARA AREA.	12
100	C	11KV BACHIRAWA	BUKAVU INJECTION SUBSTATION	KURNA AND RIYYAR LEMO AREAS	12
101	C	11KV BCGA	MALUMFASHI INJECTION SUBSTATION	BCGA, MALUMFASHI, KATSINA	12
102	C	11KV BICHI TOWN	BICHI INJECTION SUBSTATION	BICHI MINI STADIUM, HAGAGAWA, FCE BICHI ROAD AND BICHI GENERAL HOSPITALS.	12
103	C	11KV CAMPUS	LAW SCHOOL INJECTION SUBSTATION	LAW SCHOOL CAMPUS BAGAUDA.	12
104	C	11KV CITY	DAN AGUNDI INJECTION SUBSTATION	EMIRS' PALACE ROAD, DISO ROAD.	12
105	C	11KV DANTUNKU	KAZAURE INJECTION SUBSTATION	KAZAURE METROPOLITAN	12
106	C	11KV DUTSEN REME	KATSINA ROAD INJECTION SUBSTATION	DDUTIES REME AREA,	12
107	C	11KV DUTSEN SAFE	KOFAR GUGA INJECTION SUBSTATION	DUTSEN SAFE LOW COST, SABON GIDA AND FILIN SUKUWA	12
108	C	11KV FAGGE	IDH INJECTION SUBSTATION	FAGGE AND KOFAR WAMBAL AND ZAGE AREA.	12
109	C	11KV FARAWA	MARI INJECTION SUBSTATION	MARI, FARAWA AND GERAWA AREA.	12
110	C	11KV FEDERAL SECRETARIAT	BUKAVU INJECTION SUBSTATION	GWAMMAJA HOUSING ESTATE, YAN RODI AND KWANAR TAYA AREA.	12
111	C	11KV FMC	KOFAR GUGA INJECTION SUBSTATION	KOFAR YANDAKA AND BEHIND FMC KATSINA.	12
112	C	11KV GALADIMA	MALUMFASHI INJECTION SUBSTATION	GALADIMA ROAD, MALUMFASHI, KATSINA.	12
113	C	11KV GRA	IBB WAY INJECTION SUBSTATION	GIDA DAWA, NYSK CAMP AND KWADO	12
114	C	11KV HOSPITAL ROAD	KOFAR GUGA INJECTION SUBSTATION	KOFAR GUGA, GAMBARAWA AND CPS KATSINA.	12
115	C	11KV HOTORO	ZARIA ROAD INJECTION SUBSTATION	HOTORO MAIDUGURI ROAD AND TINSHAMA AREA.	12
116	C	11KV JABIRI	KATSINA ROAD INJECTION SUBSTATION	JABIRI AREA, FUNTUA	12
117	C	11KV KANO ROAD	IBB WAY INJECTION SUBSTATION	IBB WAY, GORON GIDA AND RAFIN DADI	12
118	C	11KV KANTI	KAZAURE INJECTION SUBSTATION	KAZAURE METROPOLITAN	12
119	C	11KV KOFAR NAISA	DAN AGUNDI INJECTION SUBSTATION	KOFAR NAISA, GSS GWALE ROAD AND FILIN MUSHE.	12
120	C	11KV KOFAR NASSARAWA	DAN AGUNDI INJECTION SUBSTATION	KOFAR NASSARAWA AND YAKASAI AREAS	12
121	C	11KV KUNDILA	ZARIA ROAD INJECTION SUBSTATION	KUNDILA HOUSING ESTATE MAIDUGURI ROAD.	12
122	C	11KV LAMIDO	CLUB INJECTION SUBSTATION	LAMIDO ROAD, BADAWA AND KAWO AREA.	12
123	C	11KV LAUTAI	GUMEL INJECTION SUBSTATION	GUMEL EMIRS PALACE ROAD AND MAIGATARI AREA.	12

S/N BAND	FEEDER NAME	DESCRIPTION OF FEEDER LOCATION	NAME OF MAJOR STREETS SERVED BY THE FEEDER	MIN. SUPPLY DURATION (HRS)
124	C	11KV LIMAWA DUTSE INJECTION SUBSTATION	LIMAWA, GALMAWA AND GGC TILES.	12
125	C	11KV MAIDUGURI ROAD MARRI INJECTION SUBSTATION	HOTORO MAIDUGURI ROAD AND TINSHAMA AREA. WUDIL TOWN AREA.	12
126	C	11KV MAKAMA WUDIL INJECTION SUBSTATION	COURT ROAD GYADI GYADI AND ZOO ROAD HOUSING ESTATE.	12
127	C	11KV MARHABA ZARIA ROAD INJECTION SUBSTATION	MUHD DISCO ROAD, KATSINA EMIR'S PLACE AND TUDUN WADA, KATSINA	12
128	C	11KV MUHAMMED DIKKO KOFAR SAURI INJECTION SUBSTATION	MUNDADU AND KWARIN BARKA AREA.	12
129	C	11KV MUNDADU GONGONI INJECTION SUBSTATION	NAGOGO ROAD AND SABUWAR UNGUWA, KATSINA	12
130	C	11KV NAGOGO FADAMA INJECTION SUBSTATION	NOKOWA AREA, FUNTUA	12
131	C	11KV NAKOWA KATSINA ROAD INJECTION SUBSTATION	KOFAR RUWA, AMINU KANO WAY AND GORON DUTSE AREAS.	12
132	C	11KV ORTHOPAEDIC BUKAYU INJECTION SUBSTATION	PANSHEKARA AND KUMBOTSO AREA.	12
133	C	11KV PANSHEKARA CHALAWA INJECTION SUBSTATION	SALLARI, SHEKA YARKASUWA AND ACI LAFIYA AREA.	12
134	C	11KV SALLARI ZARIA ROAD INJECTION SUBSTATION	SANI MAINAGGE AND MANDAWARI AREA.	12
135	C	11KV SANI MAINAGGE GORON DUTSE INJECTION SUBSTATION	SCHOOL OF NURSING AND PRISON FARM HOUSE ALONG MAIDUGURI ROAD.	12
136	C	11KV SCHOOL OF NURSING BIRNIN KUDU INJECTION SUBSTATION	BEBEJI AND TIGA TOWN.	12
137	C	11KV TIGA LAW SCHOOL INJECTION SUBSTATION	DUTSEN REME AREA, FUNTUA	12
138	C	11KV TOWN KATSINA ROAD INJECTION SUBSTATION	TUKUNTAWA AND SHAGARI QUARTERS.	12
139	C	11KV TUKUNTAWA SHARADA INJECTION SUBSTATION	UNGUWA UKU, NAIBAWA DANHASSAN LINE.	12
140	C	11KV UNGUWA UKU ZARIA ROAD INJECTION SUBSTATION	ALMUKAB HOUSING ESTATE, ZAWACHIKI AND GAIDA AREA.	12
141	C	11KV ZAWACKI ABATTOIR INJECTION SUBSTATION	CHARANCHI, BINDAWA, INGAWA, RONI GWIWA AND DANBATTI	12
142	C	33KV DANBATTI KANKIA TS	KANKIA METROPOLITAN, RADDA, DUTSINMA, KUREI, SAFANA AND DANMUSA	12
143	C	33KV DUTSENMA DANGORA TS	FALGORE, GIDAN KWANO AND YAIWAN PAKI AREA.	12
144	C	33KV FALGORE KUMBOTSO TS	GAIDA AND ZAWACHIKI HOUSING ESTATE.	12
145	C	33KV GAIDA WUDIL TS	GANO MAIDUGURI ROAD, MAKOLE, MARRI AREA.	12
146	C	33KV GANO WUDIL TS	MALAM MADORI AND DANITANOMA AND GUMEL PALACE	12
147	C	33KV GUMEL HADEJIA TS	BICHI METROPOLITAN	12
148	C	33KV HON. ABUBAKAR BICHI TS	KWANAR DANGORA, KIRU AND KARAYE TOWN.	12
149	C	33KV KARAYE DANGORA TS	DAURA ROAD, KAZAURE INJECTION SUBSTATION	12
150	C	33KV KAZAURE DAURA TS	BAGAUDA, TARAU AND GARIN MALLAM AREA.	12
151	C	33KV LAW SCHOOL DANGORA TS	KAGAWA, MASHI, DUTSI AND MANI	12
152	C	33KV MASHI DAURA TS	WATARI WATER TREATMENT PLANT, BAGWAI AND SHANONO	8
153	C	33KV WATARI BICHI TS	KOFAR KWAYA, YAHAYA MADAKI WAY AND RAHAMAWA.	8
154	D	11KV ARMY BARRACKS IBB WAY NIPP INJECTION SUBSTATION	DORAYI SHEK JAFAR MAHMUD ROAD AND CHIRANCHI AREA.	8
155	D	11KV CHIRANCI GONGONI INJECTION SUBSTATION	FANISAU ROAD, UNGOGO TOWN AND BACHIRAWA AREAS.	8
156	D	11KV FANISAU BUKAYU INJECTION SUBSTATION	GWAGWARWA, YANKAI AND KWANAR JABA AREA.	8
157	D	11KV GWAGWARWA BRISCOE INJECTION SUBSTATION	GWAMMAMA AND ADAKAWA AREA.	8
158	D	11KV GWAMMAMA IDH INJECTION SUBSTATION	JAEN AND SHAGO TARA AREAS.	8
159	D	11KV JAEN GONGONI INJECTION SUBSTATION	GORON DUTSE PRISON ROAD AND JAKARA AREA.	8
160	D	11KV JAKARA GORON DUTSE INJECTION SUBSTATION	HADEJIA TOWN.	8
161	D	11KV JAMAARE HADEJIA NIPP INJECTION SUBSTATION	KAURA GOJE AND KWANA HUDU AREA.	8
162	D	11KV KAURA GOJE PRP INJECTION SUBSTATION		8

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S/N	BAND	FEEDER NAME	DESCRIPTION OF FEEDER LOCATION	NAME OF MAJOR STREETS SERVED BY THE FEEDER	MIN. SUPPLY DURATION (HRS)
163	D	11KV KOFAR FADA	MUSAWA INJECTION SUBSTATION	MUSAWA METROPOLITAN	8
164	D	11KV KOKI	IDH INJECTION SUBSTATION	KOKI AND BAKIN ZUWO AREAS.	8
165	D	11KV MAKWALLA	MALAN MADORI INJECTION SUBSTATION	MALAM MADORI TOWN. MATAZU METROPOLITAN	8
166	D	11KV MATAZU	MUSAWA INJECTION SUBSTATION	RIMIN KEBE AND ZANGO DAKATA AREA.	8
167	D	11KV RIMIN KEBE	SMALL SCALE INJECTION SUBSTATION	SAGAGI AND LOKON MAKERA AREA.	8
168	D	11KV SAGAGI	ADO BAYERO INJECTION SUBSTATION	GUNDUWAWA, KAKARA AND JOGANA AREA.	8
169	D	11KV TALAMIZ	JOGANA INJECTION SUBSTATION	TOKARAWA, GUNDUWAWA AND BABAWA AREA ALONG HADEJIA ROAD.	8
170	D	11KV TSAMIYA BABBA	JOGANA INJECTION SUBSTATION	TUDUN MURTALA AND TAGARI AREAS.	8
171	D	11KV TUDUN MURTALA	SMALL SCALE INJECTION SUBSTATION	GAMA AND GAWAUNA AREA BRIGADE.	8
172	D	11KV TUDUN WADA	BRISCOE INJECTION SUBSTATION	KUMBOTSO IGA, YANKUSA, DANGWAURO, KWANAR DAWAKI AND BUNKURE AREA.	8
173	D	33KV BAGAUDA	KUMBOTSO TS	BIRNIWA AND TARUBU AND GARIN MAGAJI AREA.	8
174	D	33KV BIRNIWA	HADEJIA TS	ENTIRE GUJUNJU TOWN	8
175	D	33KV GUJUNGU	TAMBURAWA TS	KARNAYA, CHAI CHAI, RINGIM AND TAURA TOWN.	8
176	D	33KV JAHUN	DUTSE TS	BAKORI, KAFUR, DANA AND KANKARA	8
177	D	33KV MALUMFASHI	FUNTUA TS	RIMI AND BATAGARAWA	8
178	D	33KV POLYTECHNIC	KATSINA TS	MOBILE BASE DANMASARA, KACHAKO AND PANDA ALONG MAIDUGURI ROAD.	8
179	D	33KV SUMAILA	DUTSE TS	ENTIRE MAIRUWA TOWN, KATSINA.	4
180	E	11KV MAIRUWA	TEXTILE INJECTION SUBSTATION	ENTIRE DANDUME TOWN AND SABUWA	4
181	E	33KV DANDUME	FUNTUA TS	ENTIRE DANDUME TOWN AND SABUWA	4
182	E	33KV DAWANAU	BUKAYU INJECTION SUBSTATION	POLEWIRE LINE, JAJIRA, KATSINAWA AND DAWANAU AREAS.	4
183	E	33KV GARCO	WUDIL TS	INDABO, KWANAR SUMAILA, TAKAI AND GARCO TOWN.	4
184	E	33KV GAYA	WUDIL INJECTION SUBSTATION	GAYA, KADEMI AND AININGI TOWN.	4
185	E	33KV GEZAWA	SMALL SCALE INJECTION SUBSTATION	ZAURAN DANBABA, ZANGON DAKATA, RANGAZA, GEZAWA AND KUNYA TOWN.	4
186	E	33KV KWANKWASO	TAMBURAWA TS	GARU, LAMBU, RIMIN GADO AND GWARZO TOWN.	4
187	E	33KV MAI ADUA	DAURA TS	MAI ADUA	4

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