



## Kenya Power

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The Kenya Power & Lighting Co. Ltd.  
**Central Office** – P.O. Box 30099, Nairobi, Kenya  
Telephone – 254-02-3201000  
Fax No. 254-02-3201889  
Stima Plaza, Kolobot Road

Our Ref: **KP1/9A.2/OT/030/PJT/23-24**

**14<sup>TH</sup>, November 2023**

### TO ALL BIDDERS

Dear Sir/Madam,

**RE: ADDENDUM NO.2 TENDER No. KP1/9A.2/OT/030/PJT/23-24 FOR PROVISION OF  
LABOUR & TRANSPORT CONSTRUCTION SERVICES**

Following clarification arising from prospective bidders, it was found necessary to make amendment and clarifications to the Principal Tender Document (hereinafter abbreviated as the PTD) for Provision of Labour and transport construction services dated 26.10.2023. The Tender has already uploaded on the KPLC portal.

#### **1. RELATIONSHIP WITH THE PRINCIPAL TENDER DOCUMENT**

Save where expressly amended by the terms of this Addendum, the principal Tender Document shall continue to be in full force and effect. The provisions of this addendum shall be deemed to have been incorporated in and shall read as part of the principal Tender Document.

#### **2. SECTION 1. TENDER SUBMISSION CHECKLIST**

The following have been amended to the item description:-

- i. No. 7 - National Construction Authorities (NCA) registration Certificate and a valid Tenderer's Practicing License for the category relevant to power line construction. *Bidders for Central Office or Regional area work cluster must be of NCA-1 to NCA-6 Class.*
- ii. No. 9 - Certified copy of Firm's valid EPRA Registration certificate. *Bidders for Central Office or Regional area work cluster must be of EPRA Class A1, Class A or B.*

#### **3. SECTION II - TENDER DATA SHEET (TDS)**

**Clause 3.1 has been amended as follows:-**

Maximum number of members in a Joint Venture (JV) are three (3).  
Adopt definition of 'relative' as provided for under **section 59 (2)(b)** of the Public Procurement and Asset Disposal Act, 2015.

- Only local limited liability companies with a valid EPRA certificate are eligible to apply. Bidders for Central Office or Regional area work cluster must be of EPRA Class A1, Class A or Class B
- Bidders/contractors that were successful under Tender No.KP1/9A.2/OT/016/PJT/22-23 are NOT eligible to apply.

#### 4. SECTION III - EVALUATION AND QUALIFICATION CRITERIA

**Part I - Preliminary Examination Criteria** the following clauses have been amended as follows:-

- 3.1.3(e) Valid EPRA certificate for the participating firm. Bidders for Central Office or Regional area work cluster must be of EPRA Class A1, Class A or Class B.
- 3.16 The tenderer must be registered with National Construction Authority with a valid Practicing license for NCA 1- NCA 8 (Specialist Contractors). Bidders for Central Office or Regional area work cluster must be of NCA-1 to NCA-6 class.

#### 3. Part II – Detailed Examination Criteria.

3.3.3 The qualifying marks of the team leader relevant to the Construction have been revised as follows:-

- a) Degree & above -15 Marks
- b) Higher Diploma - 10 Marks
- c) Diploma- - 5 Marks

#### 5. FURTHER CLARIFICATIONS

Request for clarification	Our response
GCC 45 Contractors shall be required to choose <b>ONLY ONE</b> preferred category of works in one KPLC Region/FBBU of choice by (✓) either New Connection works or Maintenance works	This have been expunged from the tender document.
Can the definition and scope of the Regional/ Central Office Contractor be clearly defined in relation to Major CWA and other requirements	Post award L&T contract implementation guidelines on the provision of Labour and Transport construction services section has been amended in Part B to provide more clarity NCA and EPRA class requirements for Regional/ Central Office contractors reviewed.
Can street-lighting be opened up to all contractors	The FBBU contractors' BQs have now been modified to include rates for street-lighting. Allocation of street-lighting schemes is guided by Part B of the Post award L&T contract implementation guidelines on the provision of Labour and Transport construction services section
KeNHA has reviewed the number of poles to be transported from 30 to 20, can KPLC adjust their BQs?	Matter being handled administratively with KeNHA, including requests for exceptions where necessary
Transport for cables is not captured during BQ processing	Matter to be addressed administratively by KPLC as provision for the same is already in place

## 6. POST AWARD L&T CONTRACT IMPLEMENTATION GUIDELINES ON THE PROVISION OF LABOUR AND TRANSPORT CONSTRUCTION SERVICES

- a) Definition/scope of the two categories of work — New connection and Maintenance works.

No.	Category of work	Definition/scope
1.	New connection works	<ul style="list-style-type: none"> <li>➤ Customer paid new connection schemes</li> <li>➤ KPLC Last mile schemes (GoK projects)</li> <li>➤ KPLC maximization schemes</li> <li>➤ New street lighting works</li> <li>➤ Customer targeted alternative supply schemes</li> </ul>
2.	Maintenance works	<ul style="list-style-type: none"> <li>➤ KPLC reinforcement schemes</li> <li>➤ Feed-outs from substations</li> <li>➤ Break down works</li> <li>➤ Re-routing works including customer paid re-routing schemes</li> <li>• All network refurbishment schemes including street lighting</li> </ul>

**b) Guidelines on the scope of Regional and FBBU clusters**

No.	Cluster	Type of work	Area of operation and award of Jobs
	Regional/ Central Office cluster	<ul style="list-style-type: none"> <li>• All works associated with 66kV network</li> <li>• All schemes originating from Central design</li> <li>• All Major CWA schemes designed in the Region / County categorized as below: <ul style="list-style-type: none"> <li>➤ With HT/MV component of line length more than 500m or with more than one transformer or with design cost of more than Kshs.5 million</li> <li>➤ Street-lighting schemes with design cost of more than Kshs.1.5 million</li> </ul> </li> <li>• All works cutting through FBBUs as shall be determined by the Regional Manager/ County Business Manager</li> <li>• All works of the chosen category in FBBUs with no successful contractors</li> <li>• All works being implemented by L&amp;T Projects Central Office</li> </ul>	<ul style="list-style-type: none"> <li>➤ Contractor shall operate in the entire Region chosen and in the assigned category of works</li> <li>➤ Contractor shall be awarded Jobs from Region/county or Central office</li> <li>➤ In the interim, contractor shall be awarded jobs in the FBBUs that did not get bidders within the chosen Region</li> <li>➤ Contractor shall act as backup to the Region when FBBU contractor is unavailable due to various reasons including confirmed cases of non-performance subject to the approval by the Regional Manager/ County Business Manager</li> <li>➤ In the absence of the Regional Contractor due to various reasons including, non-performance, Safety lapse and general failure to abide by the contract terms, the neighboring Regional contractor with lower sum of unit rates shall be engaged in the interim awaiting conclusion of the matter and subsequent competitive filling of the vacancy.</li> </ul>
2	FBBU cluster	All schemes in the chosen category of works within the FBBU as shall be assigned through the County D&C and O&M Office.	<ul style="list-style-type: none"> <li>➤ Contractor shall be awarded jobs only in the assigned FBBU and in the category of works chosen.</li> <li>➤ In the absence of Regional Contractor, the FBBU contractor with the lowest SUM of L&amp;T unit rates may be awarded works in the neighboring FBBU subject to approval by the County Business Manager</li> </ul>

**7. TENDER CLOSING DATE**

The tender closing date remains on **30<sup>th</sup> November 2023 at 11:00 am** and opening on the same day at **11.30Am at Institute of Energy Studies and Research (IESR), off Thika Road, Ruaraka, Nairobi.**

Yours faithfully,

For: **THE KENYA POWER & LIGHTING CO.PLC**



**DR. JOHN NGENO**  
**GENERAL MANAGER SUPPLY CHAIN & LOGISTICS**

## APPENDIX 1

### SECTION VII- BILLS OF QUANTITIES

#### A. FBBU Work Area Cluster Bill of Quantities

Bidders who choose to work from KPLC FBBU Work area cluster are required to fill **Table III** for New connections and **Table IV** for Maintenance category of works.

#### 3. Table III – New Connections Bill of Quantities (To be filled by FBBU Work Area Cluster bidders)

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: .....	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
	<b><u>LOW VOLTAGE WORKS</u></b>				
1.	<b>Pole hole digging per foot.</b> - <i>This rate applies to non-rocky holes.</i>	1			
2.	<b>Pole hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep)</b> - <i>This rate involves digging 3ftx3ft wide hole up to a minimum of 4ft deep for rocky soil profile and appropriate hole depth for a given pole size where the hole is in a marshy ground. The hole will be reinforced using a bottomless drum/barrel, sand, cement, ballast and steel mesh where appropriate. (this rate also includes transport of reinforcement materials to site)</i>	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: .....	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
3.	<b>Pole hole digging per foot (rocky ground)</b> - This rate applies where a contractor chooses not to reinforce the hole but hires a compressor to dig the hole to the appropriate depth. It will only apply to the rocky part of the hole only, the normal hole digging rate shall apply where the soil is soft	1			
4.	Wooden Pole erection	1			
5.	Pole dressing including pole caps (1 wire) for both concrete poles and wooden poles	1			
6.	Concrete Pole erection	1			
7.	Pole recovery (wooden)	1			
8.	Pole recovery (concrete)	1			
9.	Stay hole digging per ft (soft soil including murrum)	1			
10.	<b>Stay hole digging per foot (rocky ground)</b> - This rate applies where a contractor hires a compressor to dig the hole to the appropriate depth. It will only apply to the rocky part of the hole only, the normal hole digging rate shall apply where the soil is soft	1			
11.	LV Stay making and installation	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1	FBBU Option 2	FBBU Option 3
			Name: .....	Name: .....	Name: .....
12.	Flying stay making & installation (excluding installation of the flying stay pole)	1			
13.	Strut making & erection (wooden poles only)	1			
14.	Strut making & erection (concrete pole)	1			
15.	Bush clearing/tree cutting per km as per KPLC standards. For both new lines and existing lines	1			
16.	Single conductor stringing per km (Bare/PVC 50sqmm & 100sqmm)	1			
17.	LV ABC stringing (both 4 wire & 2-wire) per km	1			
18.	LV ABC Termination and jointing per phase	1			
19.	ABC recovery per km	1			
20.	PME installation	1			
21.	Single Phase Meter Installation (Post Paid)	1			
22.	Single Phase Meter Installation (Pre – Paid/smart meter)	1			
23.	Three Phase Meter Installation (Pre-Paid/smart meter)	1			
24.	Three Phase Meter Installation (Post Paid)	1			
	<b><u>SERVICE LINES &amp; U/G CABLES</u></b>				



No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: .....	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
25.	<b>Overhead</b> 10mm <sup>2</sup> , 16mm <sup>2</sup> s/c & 25mm <sup>2</sup> 4/c al. per meter	1			
	<b>Underground:</b> Trenching, laying of underground cables in 3ft deep by 2ft wide trenches, overlaying with danger/Hatari tiles and backfilling where no road crossing is involved):				
26.	<b>a) Three Phase</b> <=25mm <sup>2</sup> 4/c per meter	1			
27.	<b>b) Three Phase</b> - above 4/c 25mm <sup>2</sup> but less than 4/c 300mm <sup>2</sup> per meter	1			
28.	c) Three phase -300mm <sup>2</sup> 1/c or 4/c rate per meter	1			
29.	d) Three phase 630mm <sup>2</sup> 1/c (rate per meter)	1			
	<b><u>11kV &amp; 33kV WORKS</u></b>				
30.	<b>Pole hole digging per foot.</b> - This rate applies to non-rocky holes.	1			



No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: .....	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
31.	<b>Pole Hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep) -</b> <i>This rate involves digging 3ftx3ft wide hole up to a minimum of 4ft deep for rocky soil profile and appropriate hole depth for a given pole size where the hole is in a marshy ground. The hole will be reinforced using a bottomless drum/barrel, sand, cement, ballast and steel mesh where appropriate. (this rate also includes transport of reinforcement materials to site) -</i>	1			
32.	<b>Pole hole digging per foot (rocky ground) -</b> <i>This rate applies where a contractor chooses not to reinforce the hole but hires a compressor to dig the hole to the appropriate depth. It will only apply to the rocky part of the hole only, the normal hole digging rate shall apply where the soil is soft</i>	1			
33.	<b>Pole dressing including pole caps, danger plate, barbed wire and pole no. plates (1 wire) -</b> <i>This rate applies to both wooden and concrete poles for both new works and maintenance works</i>	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: .....	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
34.	<b>Pole erection - 11m &amp; 12M long poles (wooden)</b> - This rate applies to both stout and medium size poles	1			
35.	<b>Pole erection - 14m &amp; 15M long poles (wooden)</b> - This rate applies to both stout and medium size poles	1			
36.	Concrete Pole erection - 11m & 12M long poles per pole	1			
37.	<b>Concrete Pole recovery - 11m &amp; 12M long poles</b> – The pole should be recovered for re-use	1			
38.	<b>Wooden Pole recovery - 11m &amp; 12M long poles</b> - This rate captures the cost of cutting/pulling out the wooden pole including covering the hole and chopping the pole as directed by the project supervisor.	1			
39.	<b>Stay hole digging per ft</b> - This rate is for digging a 2ftX2f wide by appropriate depth of the stay hole based on the size of the pole and conductor	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name:  .....	FBBU Option 2  Name:  .....	FBBU Option 3  Name:  .....
40.	<b>Stay hole digging per foot (rocky ground)</b> - This rate applies where a contractor hires a compressor or uses other appropriate means to dig the hole to the appropriate depth. It will only apply to the rocky part of the hole only, the normal hole digging rate shall apply where the soil is soft	1			
41.	<b>Normal Stay making and installation</b> - This rate captures the cost of stay making and installation including in anticlimbing barbed wire	1			
42.	Flying stay making & installation (excluding the cost of erection of the flying stay pole)	1			
43.	<b>Strut making &amp; erection (wooden poles only)</b> - This rate includes the cost of preparing the strut for installation	1			
44.	Strut making & erection (concrete pole)	1			
45.	<b>Bush clearing per km (for new lines) including suitable disposal of cuttings as approved by local authority</b> - This applies to cutting/clearing shrubs and trees whose diameter is less or equal to 12 inches. It also includes the cost of disposing the cuttings to the nearest approved local authority yard	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: .....	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
46.	<b>Pruning of a mature tree with over hanging branches</b> - This applies to pruning trees whose diameter is greater 12 inches. It also includes the cost of disposing the cuttings to the nearest approved local authority yard	1			
47.	<b>Cutting down a mature tree</b> - This applies to cutting/felling trees whose diameter is greater 12 inches. It also includes the cost of disposing the cuttings to the nearest approved local authority yard	1			
48.	<b>Single conductor stringing per km (75sqmm)</b> - This rate captures the cost of running, installing and tensioning a single conductor per km.	1			
49.	<b>MV cable laying (11kV &amp; 33kV) per metre</b> – This rate includes trenching, laying and reinstatement c/w hatari slabs, sandbed and acquisition of all relevant permits for works	1			
50.	Aerial earth installation per km	1			
51.	Installation of ADSS communication cable per km	1			
52.	<b>Aerial earth recovery per km – This rate includes recovery of dressing materials</b>	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: .....	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
53.	<b>A/B switch installation</b> – <i>This rate involves installation of a complete set</i>	1			
54.	<b>Taplin isolators/fuse installation/Surge diverters (one set)</b> - <i>This is the rate for installing one piece of the isolators/fuse/Surge diverters. It can also be used during maintenance</i>	1			
	<b><u>SUBSTATION WORKS</u></b>				
55.	<b>Dressing</b> - <i>This is the rate for the installation of a substation structure. This includes the cost of installing isolators and surge diverters</i>	1			
56.	<b>Mounting</b> - <i>This is the rate for lifting and securing the transformer on its platform</i>	1			
57.	<b>Substation Earthing (MV earth, Surge Diverter earth &amp; LV earth)</b> - <i>This rate captures the cost of substation earthing that achieves the minimum earth values as required by KPLC construction standards</i>	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: .....	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
58.	<b>Substation Welding (At the base on platform &amp; all necessary spot welding) to Project engineer's approval (for new transformers) - This rate includes transport of the welding machine to site and the cost of welding rods.</b>	1			
59.	<b>Commissioning - This rate shall cater for all labour cost during commissioning</b>	1			
60.	<b>Dismantling the transformer structure from an old structure - This is the cost of bringing down a substation structure during maintenance</b>	1			
61.	<b>Installation of LV circuits per circuit - This rate involves installation of the fuse bar, fuse carriers and LV lead wires per circuit including connection to the LV line</b>	1			
	<b><u>LINE COMMISSIONING</u></b>				
62.	Line ≥4 km	1			
63.	Line < 4 km	1			
	<b><u>TRANSPORT MV &amp; LV WORKS</u></b>				
64.	Fixed wooden Pole transport per lorry load (lorry load = up to 30no. Poles) for jobs whose distance from issuing store does not exceed 20km.	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1	FBBU Option 2	FBBU Option 3
			Name: .....	Name: .....	Name: .....
65.	Wooden Pole transport per lorry load (lorry load = upto 30no. Poles) for jobs whose distance from issuing store is more than 20 KM, rate per km	1			
66.	Fixed Concrete Pole Transport (for jobs not exceeding 20km from issuing stores). Upto 9no. poles	1			
67.	Concrete Pole Transport per lorry load (lorry load = up to 9 concrete poles) per km (for jobs which are more than 20km from issuing stores).	1			
68.	Fixed materials transport cost per lorry load (lorry load = 2.3km of line materials excluding Transformers) for jobs whose distance from issuing store does not exceed 20km.	1			
69.	Materials transport cost per lorry load per km (lorry load = 2.3km of line materials excluding Transformers) for jobs whose distance from issuing store is more than 20 KM.	1			
70.	Fixed materials/accessories transport cost <u>excluding Conductors and Transformers</u> (for small maintenance jobs requiring no conductors)	1			



No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: .....	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
71.	Fixed Transport of recovered Concrete Poles and associated recovered materials (for jobs not exceeding 20km to the issuing store). Up to 9no. poles	1			
72.	<b>Transport of recovered/unused Concrete Poles and associated recovered materials per lorry load (lorry load = up to 9 concrete poles) per km (for jobs which are more than 20km from issuing stores) - Concrete poles shall be recovered for re-use</b>	1			
73.	<b>Transport of recovered/unused wooden poles (up to 30 poles per trip) and associated recovered materials to the nearest KPLC facility as per Project Engineer's approval, transport per km - Recovered wooden poles shall be chopped as directed by the project supervisor to deter use of recovered poles on illegal lines</b>	1			
74.	<b>Transformers transport cost per lorry load per km (lorry load = up to 8 transformers) - Transformers shall be transported independent of other line materials (alone)</b>	1			
	<b><u>STREET LIGHTING WORKS</u></b>				

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1	FBBU Option 2	FBBU Option 3
			Name: .....	Name: .....	Name: .....
75.	Street lighting steel column hole digging per hole	1			
76.	Establishing a concrete foundation for the steel street lighting column ( <i>per foundation</i> )	1			
77.	Erection of 8m street lighting column ( <i>per column</i> )	1			
78.	Erection of 10m street lighting column ( <i>per column</i> )	1			
79.	Installation of pole mounted control pillar/box ( <i>per pillar/box</i> )	1			
80.	Installation of street lighting bracket	1			
81.	Trenching, laying of 6/10mm <sup>2</sup> two core Underground cable and back filling ( <i>per metre</i> )	1			
82.	Termination/luging of underground cable including gladding ( <i>per termination/lug</i> )	1			
83.	Earthing comprising of 50mm earth lead, earth electrode and 300mm by 300mm concrete manhole with removable cover	1			
84.	Spot welding ( <i>per Column</i> )	1			
	<b><u>TRANSPORT FOR STREET LIGHTING WORKS</u></b>				
85.	Fixed street lighting columns per lorry load (lorry load = up to 30Nos. column) for jobs whose distance from issuing store does not exceed 20km	1			
86.	Fixed street lighting columns per lorry load (lorry load = upto 30Nos. column) for jobs whose distance from issuing store exceed 20KM, rate per KM	1			
87.	Street lighting brackets, control pillars and other accessories cost per lorry load (lorry load = materials for 50 street lighting column) for jobs whose distance from issuing store doesn't exceed 20KM	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1	FBBU Option 2	FBBU Option 3
			Name: .....	Name: .....	Name: .....
88.	Street lighting brackets, control pillars and other accessories cost per lorry load (lorry load = materials for 50 street lighting column) for jobs whose distance from issuing store is more than 20KM. Rate per KM	1			
	<b>Sum of LV &amp; MV works, <u>VAT Exclusive</u></b>				

**4. Table IV – FBBU Cluster Maintenance Bill of Quantities**

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1	FBBU Option 2	FBBU Option 3
			Name: ..... .	Name: .....	Name: .....
	<b><u>LOW VOLTAGE</u></b>				
1.	<b>Pole hole digging per foot.</b> - <i>This rate applies to non-rocky holes.</i>	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: .....	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
2.	<b>Pole hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep) -</b> <i>This rate involves digging 3ftx3ft wide hole up to a minimum of 4ft deep for rocky soil profile and appropriate hole depth for a given pole size where the hole is in a marshy ground. The hole will be reinforced using a bottomless drum/barrel, sand, cement, ballast and steel mesh where appropriate. (this rate also includes transport of reinforcement materials to site)</i>	1			
3.	<b>Pole hole digging per foot (rocky ground) -</b> <i>This rate applies where a contractor chooses not to reinforce the hole but hires a compressor to dig the hole to the appropriate depth. It will only apply to the rocky part of the hole only, the normal hole digging rate shall apply where the soil is soft</i>	1			
4.	Wooden Pole erection	1			
5.	Pole dressing including pole caps (1 wire) for both concrete poles and wooden poles	1			
6.	Concrete Pole erection	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: ..... .	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
7.	Pole recovery (wooden)	1			
8.	Pole recovery (concrete)	1			
9.	Stay hole digging per ft (soft soil including murram)	1			
10.	<b>Stay hole digging per foot (rocky ground)</b> - This rate applies where a contractor hires a compressor to dig the hole to the appropriate depth. It will only apply to the rocky part of the hole only, the normal hole digging rate shall apply where the soil is soft	1			
11.	LV Stay making and installation	1			
12.	Flying stay making & installation (excluding installation of the flying stay pole)	1			
13.	Strut making & erection (wooden poles only)	1			
14.	Strut making & erection (concrete pole)	1			
15.	Bush clearing/tree cutting per km as per KPLC standards. For both new lines and existing lines	1			
16.	Single conductor stringing per km (Bare/PVC 50sqmm & 100sqmm)	1			
17.	LV ABC stringing (both 4 wire & 2-wire) per km	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: ..... .	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
18.	LV ABC Termination and jointing per phase	1			
19.	ABC recovery per km	1			
20.	PME installation	1			
	<b><u>SERVICE LINES &amp; U/G CABLES</u></b>				
21.	<b>Overhead</b> 10mm <sup>2</sup> , 16mm <sup>2</sup> s/c & 25mm <sup>2</sup> 4/c al. per meter	1			
	<b>Underground:</b> Trenching, laying of underground cables in 3ft deep by 2ft wide trenches, overlaying with danger/Hatari tiles and backfilling where no road crossing is involved):				
22.	<b>a) Three Phase</b> <=25mm <sup>2</sup> 4/c per meter	1			
23.	<b>b) Three Phase</b> - above 4/c 25mm <sup>2</sup> but less than 4/c 300mm <sup>2</sup> per meter	1			
24.	c) Three phase -300mm <sup>2</sup> 1/c or 4/c rate per meter	1			
25.	d) Three phase 630mm <sup>2</sup> 1/c (rate per meter)	1			
	<b><u>11kV &amp; 33kV works</u></b>				
26.	<b>Pole hole digging per foot.</b> - This rate applies to non-rocky holes.	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name:  .....	FBBU Option 2  Name:  .....	FBBU Option 3  Name:  .....
27.	<b>Pole Hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep) -</b> <i>This rate involves digging 3ftx3ft wide hole up to a minimum of 4ft deep for rocky soil profile and appropriate hole depth for a given pole size where the hole is in a marshy ground. The hole will be reinforced using a bottomless drum/barrel, sand, cement, ballast and steel mesh where appropriate. (this rate also includes transport of reinforcement materials to site) -</i>	1			
28.	<b>Pole hole digging per foot (rocky ground) -</b> <i>This rate applies where a contractor chooses not to reinforce the hole but hires a compressor to dig the hole to the appropriate depth. It will only apply to the rocky part of the hole only, the normal hole digging rate shall apply where the soil is soft</i>	1			



No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: ..... .	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
29.	<b>Pole dressing including pole caps, danger plate, barbed wire and pole no. plates (1 wire)</b> - <i>This rate applies to both wooden and concrete poles for both new works and maintenance works</i>	1			
30.	<b>Pole erection - 11m &amp; 12M long poles (wooden)</b> - <i>This rate applies to both stout and medium size poles</i>	1			
31.	<b>Pole erection - 14m &amp; 15M long poles (wooden)</b> - <i>This rate applies to both stout and medium size poles</i>	1			
32.	<b>Wooden pole re-alignment per pole</b> (where new pole hole is not necessary) - <i>The rate captures the cost of: undressing the pole, aligning the pole and re-dressing the pole</i>	1			
33.	<b>Wooden pole re-alignment per pole</b> (where new pole hole is necessary) - <i>The rate captures the cost of: undressing the pole, digging a new hole, recovering the old pole, erecting the new pole and complete pole dressing</i>	1			
34.	<b>Concrete Pole erection - 11m &amp; 12M long poles per pole</b>	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name:  .....	FBBU Option 2  Name:  .....	FBBU Option 3  Name:  .....
35.	Concrete Pole erection - 14m & 15M long poles per pole	1			
36.	<b>Concrete pole re-alignment per pole</b> (where new pole hole is not necessary) - <i>The rate captures the cost of: undressing the pole, aligning the pole and re-dressing the pole</i>	1			
37.	<b>Concrete pole re-alignment per pole</b> (where new pole hole is necessary) - <i>The rate captures the cost of: undressing the pole, digging a new hole, recovering the old pole, erecting the new pole and complete pole dressing</i>	1			
38.	<b>Concrete Pole recovery - 11m &amp; 12M long poles</b> – <i>The pole should be recovered for re-use</i>	1			
39.	<b>Wooden Pole recovery - 11m &amp; 12M long poles</b> - <i>This rate captures the cost of cutting/pulling out the wooden pole including covering the hole and chopping the pole as directed by the project supervisor.</i>	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: ..... .	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
40.	<b>Stay hole digging per ft</b> - <i>This rate is for digging a 2ftX2f wide by appropriate depth of the stay hole based on the size of the pole and conductor</i>	1			
41.	<b>Stay hole digging per foot (rocky ground)</b> - <i>This rate applies where a contractor hires a compressor or uses other appropriate means to dig the hole to the appropriate depth. It will only apply to the rocky part of the hole only, the normal hole digging rate shall apply where the soil is soft</i>	1			
42.	<b>Normal Stay making and installation -</b> <i>This rate captures the cost of stay making and installation including in anticlimbing barbed wire</i>	1			
43.	Flying stay making & installation (excluding the cost of erection of the flying stay pole)	1			
44.	<b>Strut making &amp; erection (wooden poles)</b> - <i>This rate includes the cost of preparing the strut for installation</i>	1			
45.	Strut making & erection (concrete pole)	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name:  ..... .	FBBU Option 2  Name:  .....	FBBU Option 3  Name:  .....
46.	<b>Bush clearing per km (for new lines) including suitable disposal of cuttings as approved by local authority</b> - <i>This applies to cutting/clearing shrubs and trees whose diameter is less or equal to 12 inches. It also includes the cost of disposing the cuttings to the nearest approved local authority yard</i>	1			
47.	<b>Bush clearing per km including all other logistics and disposal of cuttings to disposal areas approved by local authority (for existing lines requiring trace maintenance)</b> - <i>This applies to cutting/clearing shrubs and trees whose diameter is less or equal to 12 inches. It also includes the cost of disposing the cuttings to the nearest approved local authority yard</i>	1			
48.	<b>Pruning of a mature tree with over hanging branches</b> - <i>This applies to pruning trees whose diameter is greater 12 inches. It also includes the cost of disposing the cuttings to the nearest approved local authority yard</i>	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name:  ..... .	FBBU Option 2  Name:  .....	FBBU Option 3  Name:  .....
49.	<b>Cutting down a mature tree</b> - <i>This applies to cutting/felling trees whose diameter is greater 12 inches. It also includes the cost of disposing the cuttings to the nearest approved local authority yard</i>	1			
50.	<b>Single conductor stringing per km (75sqmm)</b> - <i>This rate captures the cost of running, installing and tensioning a single conductor per km.</i>	1			
51.	<b>Transfer of single 75mm2 conductor during maintenance per km</b> - <i>This rate captures the cost of removing, running-installing and re-tensioning a single conductor per km.</i>	1			
52.	<b>Single conductor recovery per km (75mm2, 150mm2 &amp; 300mm2)</b> - <i>This rate includes recovery of dressing materials</i>	1			
53.	Aerial earth installation per km	1			
54.	Installation of ADSS communication cable per km	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1 Name: ..... .	FBBU Option 2 Name: .....	FBBU Option 3 Name: .....
55.	<b>Recovery of ADSS communication cable per km including recovery of dressing materials</b> - <i>This rate includes costs of transportation of recovered material to the nearest KPLC store</i>	1			
56.	<b>Aerial earth recovery per km – This rate includes recovery of dressing materials</b>	1			
57.	<b>A/B switch installation</b> – <i>This rate involves installation of a complete set</i>	1			
58.	<b>A/B switch recovery</b> – <i>This rate captures the cost of recovering the whole switch assembly including the steady bars</i>	1			
59.	<b>Taplin isolators/fuse installation/Surge diverters (one set)</b> - <i>This is the rate for installing one piece of the isolators/fuse/Surge diverters. It can also be used during maintenance</i>	1			
60.	<b>Taplin isolators/fuse/Surge diverters recovery (one set)</b> - <i>This is the rate for recovering one piece of isolators/fuse/Surge diverters. It can also be used during maintenance</i>	1			
	<b><u>SUBSTATION WORKS</u></b>				

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name:  .....	FBBU Option 2  Name:  .....	FBBU Option 3  Name:  .....
61.	<b>Dressing</b> - This is the rate for the installation of a substation structure. This includes the cost of installing isolators and surge diverters	1			
62.	<b>Mounting</b> - This is the rate for lifting and securing the transformer on its platform	1			
63.	<b>Substation Earthing (MV earth, Surge Diverter earth &amp; LV earth)</b> - This rate captures the cost of substation earthing that achieves the minimum earth values as required by KPLC construction standards	1			
64.	<b>Substation Welding (At the base on platform &amp; all necessary spot welding) to Project engineer's approval (for new transformers)</b> - This rate includes transport of the welding machine to site and the cost of welding rods.	1			
65.	<b>Unwelding Transformers (existing transformers)</b> - This rate includes transport of the welding machine to site	1			
66.	<b>Commissioning</b> - This rate shall cater for all labour cost during commissioning	1			



No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: ..... .	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
67.	<b>Dismantling the transformer structure from an old structure</b> - <i>This is the cost of bringing down a substation structure during maintenance</i>	1			
68.	<b>Installation of LV circuits per circuit</b> - <i>This rate involves installation of the fuse bar, fuse carriers and LV lead wires per circuit including connection to the LV line</i>	1			
69.	<b>Recovery of LV circuits per circuit</b> - <i>This rate captures the cost of recovering the fuse bar, fuse carriers and LV lead wires per circuit including connection to the LV line</i>	1			
	<b><u>LINE COMMISSIONING</u></b>				
70.	Line ≥ 4 km	1			
71.	Line < 4 km	1			
	<b><u>BREAKDOWN WORKS (O&amp;M)</u></b>				
72.	Mobilization of an L&T 7-member team for attendance to a break down	1			
73.	Return Mileage for attendance to a breakdown (where no pole transport is involved) rate is per km	1			
	<b><u>TRANSPORT MV &amp; LV</u></b>				

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: ..... .	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
74.	Fixed wooden Pole transport per lorry load (lorry load = up to 30no. Poles) for jobs whose distance from issuing store does not exceed 20km.	1			
75.	Wooden Pole transport per lorry load (lorry load = upto 30no. Poles) for jobs whose distance from issuing store is more than 20 KM, rate per km	1			
76.	Fixed Concrete Pole Transport (for jobs not exceeding 20km from issuing stores). Upto 9no. poles	1			
77.	Concrete Pole Transport per lorry load (lorry load = up to 9 concrete poles) per km (for jobs which are more than 20km from issuing stores).	1			
78.	Fixed materials transport cost per lorry load (lorry load = 2.3km of line materials excluding Transformers) for jobs whose distance from issuing store does not exceed 20km.	1			
79.	Materials transport cost per lorry load per km (lorry load = 2.3km of line materials excluding Transformers) for jobs whose distance from issuing store is more than 20 KM.	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: ..... .	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
80.	Fixed materials/accessories transport cost <u>excluding Conductors and Transformers</u> (for small maintenance jobs requiring no conductors)	1			
81.	Fixed Transport of recovered Concrete Poles and associated recovered materials (for jobs not exceeding 20km to the issuing store). Up to 9no. poles	1			
82.	<b>Transport of recovered/unused Concrete Poles and associated recovered materials per lorry load (lorry load = up to 9 concrete poles) per km (for jobs which are more than 20km from issuing stores) - Concrete poles shall be recovered for re-use</b>	1			
83.	<b>Transport of recovered/unused wooden poles (up to 30 poles per trip) and associated recovered materials to the nearest KPLC facility as per Project Engineer's approval, transport per km - Recovered wooden poles shall be chopped as directed by the project supervisor to deter use of recovered poles on illegal lines</b>	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: .....	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
84.	<b>Transformers transport cost per lorry load per km (lorry load = up to 8 transformers) - Transformers shall be transported independent of other line materials (alone)</b>	1			
85.	<b>Transport of recovered transformers per lorry load per km (lorry load = up to 8 transformers) - Recovered transformers should be transported safely to the nearest KPLC store or as directed by KPLC project supervisor</b>	1			
	<b>STREET LIGHTING WORKS</b>				
86.	Street lighting steel column hole digging per hole	1			
87.	Establishing a concrete foundation for the steel street lighting column (per foundation)	1			
88.	Erection of 8m street lighting column ( per column)	1			
89.	Erection of 10m street lighting column ( per column)	1			
90.	Installation of pole mounted control pillar/box (per pillar/box)	1			
91.	Installation of street lighting bracket	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: ..... .	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
92.	Trenching, laying of 6/10mm <sup>2</sup> two core Underground cable and back filling (per metre)	1			
93.	Termination/luging of underground cable including gladding (per termination/lug)	1			
94.	Recovery of existing street lighting column and delivery to store (per recovered column)	1			
95.	Recovery of existing street lighting bracket	1			
96.	Earthing comprising of 50mm earth lead, earth electrode and 300mm by 300mm concrete manhole with removable cover	1			
97.	Spot welding (per Column)	1			
	<b>TRANSPORT FOR STREET LIGHTING WORKS</b>				
98.	Fixed street lighting columns per lorry load (lorry load = up to 30Nos. column) for jobs whose distance from issuing store does not exceed 20km	1			

No.	DESCRIPTION OF WORKS	QTY	PROPOSED UNIT RATE (Kshs. VAT Excl.)		
			FBBU Option 1  Name: ..... .	FBBU Option 2  Name: .....	FBBU Option 3  Name: .....
99.	Fixed street lighting columns per lorry load (lorry load = upto 30Nos. column) for jobs whose distance from issuing store exceed 20KM, rate per KM	1			
100.	Street lighting brackets, control pillars and other accessories cost per lorry load (lorry load = materials for 50 street lighting column) for jobs whose distance from issuing store doesn't exceed 20KM	1			
101.	Street lighting brackets, control pillars and other accessories cost per lorry load (lorry load = materials for 50 street lighting column) for jobs whose distance from issuing store is more than 20KM. Rate per KM	1			
102.	Transport of recovered existing street lighting column and other accessories to stores per KM	1			
	<b>Sum of Unit Rates for LV &amp; MV works (VAT Exclusive)</b>				

