Kenya Power

The Kenya Power & Lighting Co. Ltd.
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Stima Plaza, Kolobot Road

Our Ref: **KP1/9A.2/OT/033/PJT/21-22** **28TH JUNE 2022**

M/s All Prospective Bidders

Dear Sir/Madam,

RE: ADDENDUM NO.1 TENDER No. KP1/9A.2/OT/033/PJT/21-22 FOR PROVISION OF LABOUR & TRANSPORT CONSTRUCTION SERVICES

RELATIONSHIP WITH THE PRINCIPAL TENDER DOCUMENT

Following clarification arising from prospective bidders during pre-bid meeting , we found it necessary to make amendment and clarifications to the Principal Tender Document (hereinafter abbreviated as the PTD) Provision of public relations Agency (PR) dated 15.06.2022 . The Tender already uploaded on the KPLC portal.

1. **TENDER REQUIREMENTS CLARIFICAIONS**

No.	REQUEST FOR CLARIFICATION	OUR RESPONSE
1.	Are bidders bidding for FBBUs without 66kV network in a Region with 66kV network required to submit rates for 66kV services?	No. See Addendum.
2.	Is there a different schedule of services for New Connections and Maintenance?	No, the schedule of services is the same for both. Bidders to submit rates for all services as per tender requirements.
3.	How is the cumulative length of lines constructed assessed for areas where multiple voltage networks were constructed on the same structures?	Cumulative sum of the totals of each voltage level
4.	Why does KPLC have a problem with excessively low rates for services	Excessively low rates will lead to the bidder being unable to provide the services during the life of the contract hence non-performance
5.	Is Last Mile experience eligible?	Yes (Jobs to be verified by respective regional Last mile supervisors)
6.	Have rates for GPS data collection and generation of CAD drawings been left out?	Yes. KPLC will undertake the services using internal resources
7.	Is the unit of measure for service cables now in meters?	Yes. Bidders to familiarize themselves with the units of measure for all services and bid accordingly

No.	REQUEST FOR CLARIFICATION	OUR RESPONSE
8.	Should contractors indicate the BQ totals?	Yes.
	There's a requirement in the Form of Tender to for the bidder to fill the contract sum. Is this necessary?	Yes
9.	Digitization process slowing payments	Operational matter to be addressed by KPLC outside of tender process
10.	Will KPLC consider inflation in its evaluation	KPLC will use market rates to assess adequacy of bidder's rates
11.	NCA documents cannot be renewed before expiry of current documents. What is the consideration for documents that are about to expire?	Documents that shall be valid up-to the tender closing date shall be accepted at evaluation (30th June 2022)
12.	Nairobi City Council is currently not issuing licences until after the General Elections	Bidders to submit previous license and evidence of application for renewal by attaching official payment receipts
13.	Bidders anticipate delays in the issuance of EPRA Certificates, can this requirement be waived?	No, valid EPRA certificate is a mandatory requirement.
14.	Should bidders fill the total BoQ amount in the Portal while submitting bids?	Bidders should not key in any rate or totals in the portal. You are required to attach the BQ
15.	What format should the Work Program take?	Bidders are required to submit the Work Method & Schedule in a format of their own devise showing how they intend to undertake works
16.	Form Per-2 has a section requiring the bidder to indicate the years their Technical Personnel has been with Procuring Entity. a) Can this requirement be clarified? b) Does the form replace CVs?	a) See Addendum. b) Both the form and CV shall be required.
17.	Is EPRA Certificate a requirement for JVs?	Yes (all participating firms must have EPRA)
18.	Why has the contract period now been limited to one year?	This is a Board decision that must be adhered to.
19.	Should the BQ be typed or handwritten?	Handwritten
20.	What is the Declaration Form referred to in the Tender Submission Checklist?	Confidential Business Questionnaire Form SD1 Form SD1&SD2
21.	What rates will KPLC use to assess bidders rates for abnormally low rates and abnormally high rates? Can KPLC share the rates with bidders?	KPLC shall use market rates. KPLC cannot share its rates with bidders as it is against regulations.
22.	Can the Tender Closing Date be extended in light of the clarifications	Extension granted.

No.	REQUEST FOR CLARIFICATION	OUR RESPONSE
	made in the Pre-Bid meeting.	
23.	Can the Kshs. 5 million minimum requirement for Specific Construction & Contract Management Experience in the Qualification Form Summary be clarified?	This is not a mandatory requirement in this tender
24.	Can the 'local contractors' requirement be clarified?	'Local contractors' company should be >50% owned by citizens
25.	At what point is the LPO issued?	At the completion of works due to challenges in establishing exact value of services offered beforehand
26.	Can the date of final inspection be taken to be the invoice date to reduce time taken to payment?	KPLC is continuously undertaking improvements in processes and systems to improve efficiency. Invoice date shall remain as the starting date for the count of 30 days period. After inspection and acceptance of works and services.
27.	Can there be uniformity in payment procedures across KPLC regions?	SLA shall be reviewed to enhance process. KPLC is also undertaking upgrade of systems that shall enable paperless and standardised processes..
28.	Can forms used during project execution be standardised	KPLC to undertake this administratively
29.	Can the inspection process be hastened after project completion?	KPLC is working on a proposal to have an L&T Supervisor in each county for L&T works and inspection and inspection to be done as per the PPADA 2015
30.	Can KPLC speed up the issuance of certificates from EPRA?	KPLC, out of goodwill, may write to the regulator to request for expeditious processing. However, it is the bidders sole responsibility to follow up with EPRA
31.	Can bidders be allowed to select several FBBUs, and KPLC to award them only in the FBBU where they will be the lowest evaluated bidder?	**No.**
32.	Bidders cannot provide audited financial statements for 2022, can the 18 month window be clarified?	Bidders can submit Audited financial statements for year 2020 and 2021

2. AMENDMENT TO TENDER DOCUMENT

1. **PART I, Qualification Forms. Page 41, 42&43** of 175 of the tender document.
   Bidders are notified that Form PER - 2 on page 41,42&43 of the tender document has been amended as follows:

FORM PER-2:

Resume and Declaration - Contractor's Representative and Key Personnel.

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to power line construction.

Name of Tenderer

Position [#1]: Key Technical Person		
Personnel information	Name:	Date of birth:
	Address:	E-mail:
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency:	
Details		
	Address of the Tenderer :	
	Telephone:	Contact (manager / personnel officer):
	Fax:	
	Job title:	Years with present Tenderer:

Name of Tenderer

Position [#1]: Project Manager		
Personnel information	Name:	Date of birth:
	Address:	E-mail:

	Professional qualifications:	
	Academic qualifications:	
	Language proficiency:	
Details		
	Address of Tenderer:	
	Telephone:	Contact (manager / personnel officer):
	Fax:	
	Job title:	Years with present Tenderer:

Name of Tenderer

Position [# 1]: Safety Officer		
Personnel information	Name:	Date of birth:
	Address:	E-mail:
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency:	
Details		
	Address of Tenderer:	
	Telephone:	Contact (manager / personnel officer):
	Fax:	
	Job title:	Years with present Tenderer:

2. **PART II, Section VI** on page 91 of 175 – Work area Clusters
   Change the **NOTE** to read;

   NOTE: Bidders are only allowed to choose **One** preferred Region and **One** preferred category of works

3. **PART II, Section VII BILL OF QUANTITIES** on page 97 of 175 – Bill of quantities
   a. Change the **NOTE** to read;
      Bidders are hereby, notified that , submitted rates for 66kV works (New connections or Maintenance as tabulated below) shall only be evaluated for selected Regions that have 66kV network currently. **Only** Regional/Central office contractors are eligible to submit rates for 66kV works. The following regions have 66kV network:
      - Nairobi South
      - Nairobi North
      - Nairobi West
      - North Eastern

   b. FBBU bidders are not required to submit rates for 66kV works

4. **SECTION VII – BILL OF QUANTITIES Page 97 of 175**, add sum of unit rates to the bill of quantities. The Total/sum of unit rates shall be VAT exclusive

1. Table I – New Connections Bill of Quantities

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
	LOW VOLTAGE WORKS		
1.	**Pole hole digging per foot.** - *This rate applies to non-rocky holes.*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
2.	**Pole hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep)** *-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)*	1	
3.	**Pole hole digging per foot (rocky ground)** - *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 murram)*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
10.	**Stay hole digging per foot (rocky ground)** - *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	
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)	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
23.	Three Phase Meter Installation (Pre-Paid)	1	
24.	Three Phase Meter Installation (Post Paid)	1	
	SERVICE LINES & U/G CABLES		
25.	**Overhead** 10mm^2, 16mm^2 s/c & 25mm^2 4/c al. per meter	1	
26.	**Cables Crossing Roads:** Where cable crosses a road, a heavy gauge PVC duct (150mm diameter) with concrete surround shall be used at a depth of 3 ft by 2ft wide. All cables shall be overlaid with danger/hatari tiles (cost per crossing)	1	
	Underground: 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):		
27.	**a) Three Phase** <=25mm^2 4/c per meter	1	
28.	**b) Three Phase** - above 4/c 25mm^2 but less than 4/c 300mm^2 per meter	1	
29.	c) Three phase -300mm^2 1/c or 4/c rate per meter	1	
30.	d) Three phase 630mm^2 1/c (rate per meter)	1	
31.	Installation of LV distribution panel 1600A-bulky per piece	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
32.	Installation of service turret 12/18 way, 600A per piece	1	
33.	Installation of ring main unit per piece	1	
	11kV & 33kV WORKS		
34.	**Pole hole digging per foot**. - *This rate applies to non-rocky holes.*	1	
35.	**Pole Hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep)** -*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) -*	1	
36.	**Pole hole digging per foot (rocky ground)** - *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	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
37.	**Pole dressing including pole caps, danger plate, barbed wire and pole no. plates (1 wire)** - *This rate applies to both wooden and concrete poles for both new works and maintenance works*	1	
38.	**Pole erection - 11m & 12M long poles (wooden)** - *This rate applies to both stout and medium size poles*	1	
39.	**Pole erection - 14m & 15M long poles (wooden)** - *This rate applies to both stout and medium size poles*	1	
40.	Concrete Pole erection - 11m & 12M long poles per pole	1	
41.	Concrete Pole erection - 14m & 15M long poles per pole	1	
42.	**Concrete Pole recovery - 11m & 12M long poles** – *The pole should be recovered for re-use*	1	
43.	**Concrete Pole recovery - 14m & 15M long poles** - *The pole should be recovered for re-use*	1	
44.	**Wooden Pole recovery - 11m & 12M long poles** - *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	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
45.	**Wooden Pole recovery - 14m & 15M long poles** - *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	
46.	**Stay hole digging per ft** - *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	
47.	**Stay hole digging per foot (rocky ground)** - *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	
48.	**Normal Stay making and installation** - *This rate captures the cost of stay making and installation including in anticlimbing barbed wire*	1	
49.	Flying stay making & installation (excluding the cost of erection of the flying stay pole)	1	
50.	**Strut making & erection (wooden poles only)** - *This rate includes the cost of preparing the strut for installation*	1	
51.	Strut making & erection (concrete pole)	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
52.	**Bush clearing per km (for new lines) including suitable disposal of cuttings as approved by local authority -** *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	
53.	**Pruning of a mature tree with over hanging branches -** *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	
54.	**Cutting down a mature tree -** *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	
55.	**Single conductor stringing per km (75sqmm) -** *This rate captures the cost of running, installing and tensioning a single conductor per km.*	1	
56.	**Single conductor stringing per km (150 sqmm) -** *This rate captures the cost of running, installing and tensioning a single conductor per km.*	1	
57.	**Single conductor stringing per km (300sqmm) -** *This rate captures the cost of running, installing and tensioning a single conductor per km.*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
58.	**11kV ABC installation per bundle per km (3X70mm2 s/c cables)** - *This rate captures the cost of running, installing and tensioning a three-phase bundle*	1	
59.	**MV cable laying (11kV & 33kV) per metre** – *This rate includes trenching, laying and reinstatement c/w hatari slabs, sandbed and acquisition of all relevant permits for works*	1	
60.	**MV cable laying (11kV & 33kV) per metre in ducts** – *This rate includes laying of cables in ducts*	1	
61.	**Cables Crossing Roads (11kV & 33kV):** Where cable crosses a road, a heavy gauge PVC duct (150mm diameter) with concrete surround shall be used in 4ft deep by 2ft wide trenches. All cables shall be overlaid with danger hatari tiles (cost per crossing)	1	
62.	**MV cable termination and jointing (11kV & 33kV per phase** - *This rate includes the cost of lugging and bolting to the over-head line.*	1	
63.	Aerial earth installation per km	1	
64.	Installation of OPGW communication cable per km	1	
65.	**Jointing and termination of OPGW/ADSS (splicing) per joint** - *This rate applies to jointing of a OPGW fibre cable per core*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
66.	Installation of ADSS communication cable per km	1	
67.	**Aerial earth recovery per km – This rate includes recovery of dressing materials**	1	
68.	**A/B switch installation –** *This rate involves installation of a complete set*	1	
69.	**Auto Reclosure installation (rate is for only the auto-reclosing unit) -** *This is the rate for installing the full auto reclosing assembly including the bypass switch.*	1	
70.	**Taplin isolators/fuse installation/Surge diverters (one set) -** *This is the rate for installing one piece of the isolators/fuse/Surge diverters. It can also be used during maintenance*	1	
	SUBSTATION WORKS		
71.	**Dressing -** *This is the rate for the installation of a substation structure. This includes the cost of installing isolators and surge diverters*	1	
72.	**Mounting -** *This is the rate for lifting and securing the transformer on its platform*	1	
73.	**Substation Earthing (MV earth, Surge Diverter earth & LV earth) -** *This rate captures the cost of substation earthing that achieves the minimum earth values as required by KPLC construction standards*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
74.	**Substation Welding (At the base on platform & 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.*	1	
75.	**Commissioning** - *This rate shall cater for all labour cost during* commissioning	1	
76.	**Dismantling the transformer structure from an old structure** - *This is the cost of bringing down a substation structure during maintenance*	1	
77.	**Installation of 630kVA Ground Mounted transformer** – *This rate includes the cost for earthing and isolation*	1	
78.	**Installation of 1MVA Ground Mounted transformer** - *This rate includes the cost for earthing and isolation*	1	
79.	**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*	1	
	LINE COMMISSIONING		
80.	Line ≥4 km	1	
81.	Line < 4 km	1	
	TRANSPORT MV & LV WORKS		

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
82.	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	
83.	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	
84.	Fixed Concrete Pole Transport (for jobs not exceeding 20km from issuing stores). Upto 9no. poles	1	
85.	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	
86.	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	
87.	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	
88.	Fixed materials/accessories transport cost excluding Conductors and Transformers (for small maintenance jobs requiring no conductors)	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
89.	Fixed Transport of recovered Concrete Poles and associated recovered materials (for jobs not exceeding 20km to the issuing store). Up to 9no. poles	1	
90.	**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*	1	
91.	**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*	1	
92.	**Transformers transport cost per lorry load per km (lorry load = up to 8 transformers) -** *Transformers shall be transported independent of other line materials (alone)*	1	
	STREET LIGHTING WORKS		
93.	Street lighting steel column hole digging per hole	1	
94.	Establishing a concrete foundation for the steel street lighting column *(per foundation)*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
95.	Erection of 8m street lighting column *(per column)*	1	
96.	Erection of 10m street lighting column *(per column)*	1	
97.	Installation of pole mounted control pillar/box (per pillar/box)	1	
98.	Installation of street lighting bracket	1	
99.	Trenching, laying of 6/10mm2 two core Underground cable and back filling (per metre)	1	
100.	Termination/luging of underground cable including gladding (per termination/lug)	1	
101.	Earthing comprising of 50mm earth lead, earth electrode and 300mm by 300mm concrete manhole with removable cover	1	
102.	Spot welding (per Column)	1	
	TRANSPORT FOR STREET LIGHTING WORKS		
103.	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	
104.	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	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
105.	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	
106.	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	
	Sub Total 1, Sum of LV & MV works, VAT Exclusive		
	HIGH VOLTAGE (66kV) WORKS		
1.	Pole hole digging per ft.	1	
2.	**Pole Hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep)** - *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)*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
3.	**Pole hole digging per foot (rocky ground)** - *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.	Pole erection - 14m -18m long poles (wooden)	1	
5.	Pole dressing including pole caps, danger plate, barbed wire and pole no. plates (1 wire)	1	
6.	Concrete Pole erection	1	
7.	Concrete Pole recovery including all the associated fittings	1	
8.	Wooden Pole recovery - 15m - 18m long poles	1	
9.	Stay hole digging per ft	1	
10.	**Stay hole digging per foot (rocky ground)** - *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	
11.	Normal Stay making and installation	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
12.	Flying stay making & installation (excluding the cost of erection of the flying stay pole)	1	
13.	Strut making & erection (wooden poles only)	1	
14.	Strut making & erection (concrete pole)	1	
15.	Bush clearing per km (for new lines) including suitable disposal of cuttings as approved by local authority.	1	
16.	**Pruning of a mature tree with over hanging branches** - *cost per tree pruned including disposing the cutting to a designated location*	1	
17.	**Cutting down a mature tree** - *cost per tree cut including disposing the cutting to a designated location*	1	
18.	Single conductor stringing per km (150 sqmm)	1	
19.	Single conductor stringing per km (300sqmm)	1	
20.	Trenching, laying of underground 66kV single core cables in 6ft deep by 2ft wide trenches, overlaying with danger/Hatari tiles and backfiling (per metre where no road crossing is involved).	1	
21.	Laying of underground 66kV single core cables in ducts (per metre where no road crossing is involved).	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
22.	**Cables Crossing Roads:** Where cable crosses a road, a heavy gauge PVC duct (150mm diameter) with concrete surround shall be used in 6ft deep by 2ft wide trenches. All cables shall be overlaid with danger/hatari tiles (cost per crossing)	1	
23.	66kV single core cable termination and jointing	1	
24.	Aerial earth installation per km	1	
25.	A/B switch installation	1	
26.	Installation of Surge diverters (complete set)	1	
	TRANSPORT FOR 66kV WORKS		
27.	Fixed wooden Pole transport per lorry load (lorry load = up to 25no. Poles) for jobs whose distance from issuing store does not exceed 20km.	1	
28.	Wooden Pole transport per lorry load (lorry load = upto 25no. Poles) for jobs whose distance from issuing store is more than 20 KM, rate per km	1	
29.	Fixed Concrete Pole Transport (for jobs not exceeding 20km from issuing stores). Up to 8No. 66kV concrete poles	1	
30.	Concrete Pole Transport per km per trip for up to 8 concrete poles (15m concrete pole is approx. 1.3 tons) for jobs which are more than 20km from issuing stores.	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
31.	Fixed materials transport cost per lorry load (lorry load = 1.1km of line materials for jobs whose distance from issuing store does not exceed 20km.	1	
32.	Materials transport cost per lorry load per km (lorry load = 1.1km of line materials for jobs whose distance from issuing store is more than 20 KM.	1	
33.	**Fixed materials/accessories transport cost excluding Conductors (for small maintenance jobs requiring no conductors)** - *Small jobs have higher unit cost; use rate for other materials up to 20KM. If too far, use KPLC common services teams*	1	
34.	**Transport of recovered wooden poles/materials to the nearest KPLC facility as per Project Engineer's approval, transport per km per lorry load = up to 25 recovered poles and associated accessories.** - *Evidence of return to stores should be attached to the invoice for recovered poles and associated accessories.*	1	
35.	**Fixed Transport of recovered/ unused Concrete Poles and associated recovered materials (for jobs not exceeding 20km to the issuing store). Up to 8no. poles** - *Concrete poles shall be recovered for re-use.*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
36.	**Transport of recovered Concrete Poles and associated recovered materials per lorry load (lorry load = up to 8 concrete poles) per km (for jobs which are more than 20km from issuing stores).** - *Concrete poles shall be recovered for re-use.*	1	
	Sub Total 2, Sum of Unit rates for 66kV works (VAT Exclusive)		
	Grand Total, Sub Total 1 + Sub Total 2 (VAT Exclusive)		

2. Table II – Maintenance Bill of Quantities

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
	LOW VOLTAGE		
1.	**Pole hole digging per foot**. - *This rate applies to non-rocky holes.*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
2.	**Pole hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep)** *-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)*	1	
3.	**Pole hole digging per foot (rocky ground)** - *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 murram)*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
10.	**Stay hole digging per foot (rocky ground)** - *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	
18.	LV ABC Termination and jointing per phase	1	
19.	ABC recovery per km	1	
20.	PME installation	1	
	SERVICE LINES & U/G CABLES		
21.	**Overhead** 10mm^2, 16mm^2 s/c & 25mm^2 4/c al. per meter	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
22.	**Cables Crossing Roads:** Where cable crosses a road, a heavy gauge PVC duct (150mm diameter) with concrete surround shall be used at a depth of 3 ft by 2ft wide. All cables shall be overlaid with danger/hatari tiles (cost per crossing)	1	
	Underground: 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):		
23.	**a) Three Phase** <=25mm^2 4/c per meter	1	
24.	**b) Three Phase** - above 4/c 25mm^2 but less than 4/c 300mm^2 per meter	1	
25.	c) Three phase -300mm^2 1/c or 4/c rate per meter	1	
26.	d) Three phase 630mm^2 1/c (rate per meter)	1	
	11kV & 33kV works		
27.	**Pole hole digging per foot**. - *This rate applies to non-rocky holes.*	1	
28.	**Pole Hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep)** *-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) -*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
29.	**Pole hole digging per foot (rocky ground)** - *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	
30.	**Pole dressing including pole caps, danger plate, barbed wire and pole no. plates (1 wire)** - *This rate applies to both wooden and concrete poles for both new works and maintenance works*	1	
31.	**Pole erection - 11m & 12M long poles (wooden)** - *This rate applies to both stout and medium size poles*	1	
32.	**Pole erection - 14m & 15M long poles (wooden)** - *This rate applies to both stout and medium size poles*	1	
33.	**Wooden pole re-alignment per pole** (where new pole hole is not necessary) - *The rate captures the cost of: undressing the pole, aligning the pole and re-dressing the pole*	1	
34.	**Wooden pole re-alignment per pole** (where new pole hole is necessary) - *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*	1	
35.	Concrete Pole erection - 11m & 12M long poles per pole	1	
36.	Concrete Pole erection - 14m & 15M long poles per pole	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
37.	**Concrete pole re-alignment per pole** (where new pole hole is not necessary) - *The rate captures the cost of: undressing the pole, aligning the pole and re-dressing the pole*	1	
38.	**Concrete pole re-alignment per pole** (where new pole hole is necessary) - *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*	1	
39.	**Concrete Pole recovery - 11m & 12M long poles –** *The pole should be recovered for re-use*	1	
40.	**Concrete Pole recovery - 14m & 15M long poles** - *The pole should be recovered for re-use*	1	
41.	**Wooden Pole recovery - 11m & 12M long poles** - *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	
42.	**Wooden Pole recovery - 14m & 15M long poles** - *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	
43.	**Stay hole digging per ft** - *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	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
44.	**Stay hole digging per foot (rocky ground)** - *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	
45.	**Normal Stay making and installation** - *This rate captures the cost of stay making and installation including in anticlimbing barbed wire*	1	
46.	Flying stay making & installation (excluding the cost of erection of the flying stay pole)	1	
47.	**Strut making & erection (wooden poles)** - *This rate includes the cost of preparing the strut for installation*	1	
48.	Strut making & erection (concrete pole)	1	
49.	**Bush clearing per km (for new lines) including suitable disposal of cuttings as approved by local authority** - *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	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
50.	**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)** - *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	
51.	**Pruning of a mature tree with over hanging branches** - *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	
52.	**Cutting down a mature tree** - *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	
53.	**Single conductor stringing per km (75sqmm)** - *This rate captures the cost of running, installing and tensioning a single conductor per km.*	1	
54.	**Transfer of single 75mm2 conductor during maintenance per km** - *This rate captures the cost of removing, running-installing and re-tensioning a single conductor per km.*	1	
55.	**Single conductor stringing per km (150 sqmm)** - *This rate captures the cost of running, installing and tensioning a single conductor per km.*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
56.	**Transfer of single 150mm2 conductor during maintenance per km** - *This rate captures the cost of removing, running, re-installing and re-tensioning a single conductor per km.*	1	
57.	**Single conductor stringing per km (300sqmm)** - *This rate captures the cost of running, installing and tensioning a single conductor per km.*	1	
58.	**Transfer of single 300mm2 conductor during maintenance per km** - *This rate captures the cost of removing, running, re-installing and re-tensioning a single conductor per km.*	1	
59.	**11kV ABC installation per bundle per km (3X70mm2 s/c cables)** - *This rate captures the cost of running, installing and tensioning a three-phase bundle*	1	
60.	**11kV ABC recovery per bundle cable per km (3X70mm2 s/c cables)** - *This rate captures the cost of recovering the ABC bundle including the anchoring fittings.*	1	
61.	**MV cable laying (11kV & 33kV) per metre** – *This rate includes trenching, laying and reinstatement c/w hatari slabs, sandbed and acquisition of all relevant permits for works*	1	
62.	**MV cable laying (11kV & 33kV) per metre in ducts** – *This rate includes laying of cables in ducts*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
63.	**Cables Crossing Roads (11kV & 33kV):** Where cable crosses a road, a heavy gauge PVC duct (150mm diameter) with concrete surround shall be used in 4ft deep by 2ft wide trenches. All cables shall be overlaid with danger hatari tiles (cost per crossing)	1	
64.	**MV cable termination and jointing (11kV & 33kV per phase** - *This rate includes the cost of lugging and bolting to the over-head line.*	1	
65.	**Single conductor recovery per km (75mm2, 150mm2 & 300mm2)** - *This rate includes recovery of dressing materials*	1	
66.	Aerial earth installation per km	1	
67.	Installation of OPGW communication cable per km	1	
68.	**Jointing and termination of OPGW/ADSS (splicing) per joint** - *This rate applies to jointing of a OPGW fibre cable per core*	1	
69.	Installation of ADSS communication cable per km	1	
70.	**Recovery of ADSS communication cable per km including recovery of dressing materials** - *This rate includes costs of transportation of recovered material to the nearest KPLC store*	1	
71.	**Aerial earth recovery per km – This rate includes recovery of dressing materials**	1	
72.	**A/B switch installation –** *This rate involves installation of a complete set*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
73.	**A/B switch recovery –** *This rate captures the cost of recovering the whole switch assembly including the steady bars*	1	
74.	**Auto Reclosure installation (rate is for only the auto-reclosing unit) -** *This is the rate for installing the full auto reclosing assembly including the bypass switch.*	1	
75.	**Auto Reclosure recovery -** *This is the rate for recovering the full auto reclosing assembly including the bypass switch.*	1	
76.	**Taplin isolators/fuse installation/Surge diverters (one set) -** *This is the rate for installing one piece of the isolators/fuse/Surge diverters. It can also be used during maintenance*	1	
77.	**Taplin isolators/fuse/Surge diverters recovery (one set) -** *This is the rate for recovering one piece of isolators/fuse/Surge diverters. It can also be used during maintenance*	1	
	SUBSTATION WORKS		
78.	**Dressing -** *This is the rate for the installation of a substation structure. This includes the cost of installing isolators and surge diverters*	1	
79.	**Mounting -** *This is the rate for lifting and securing the transformer on its platform*	1	
80.	**Substation Earthing (MV earth, Surge Diverter earth & LV earth) -** *This rate captures the cost of substation earthing that achieves the minimum earth values as required by KPLC construction standards*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
81.	**Substation Welding (At the base on platform & 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.*	1	
82.	**Unwelding Transformers (existing transformers) -** *This rate includes transport of the welding machine to site*	1	
83.	**Commissioning -** *This rate shall cater for all labour cost during* commissioning	1	
84.	**Dismantling the transformer structure from an old structure -** *This is the cost of bringing down a substation structure during maintenance*	1	
85.	**Recovering TX, Autoreclosers, ABS etc to stores –** *This rate is for dismantling the structure including all the associated accessories*	1	
86.	**Installation of 630kVA Ground Mounted transformer –** *This rate includes the cost for earthing and isolation*	1	
87.	**Installation of 1MVA Ground Mounted transformer -** *This rate includes the cost for earthing and isolation*	1	
88.	**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*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
89.	**Recovery of LV circuits per circuit** - *This rate captures the cost of recovering the fuse bar, fuse carriers and LV lead wires per circuit including connection to the LV line*	1	
	LINE COMMISSIONING		
90.	Line ≥4 km	1	
91.	Line < 4 km	1	
	BREAKDOWN WORKS (O&M)		
92.	Mobilization of an L&T 7-member team for attendance to a break down	1	
93.	Return Mileage for attendance to a breakdown (where no pole transport is involved) rate is per km	1	
	TRANSPORT MV & LV		
94.	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	
95.	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	
96.	Fixed Concrete Pole Transport (for jobs not exceeding 20km from issuing stores). Upto 9no. poles	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
97.	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	
98.	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	
99.	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	
100	Fixed materials/accessories transport cost excluding Conductors and Transformers (for small maintenance jobs requiring no conductors)	1	
101	Fixed Transport of recovered Concrete Poles and associated recovered materials (for jobs not exceeding 20km to the issuing store). Up to 9no. poles	1	
102	**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*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
103	**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*	1	
104.	**Transformers transport cost per lorry load per km (lorry load = up to 8 transformers) -** *Transformers shall be transported independent of other line materials (alone)*	1	
05.	**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*	1	
	STREET LIGHTING WORKS		
106	Street lighting steel column hole digging per hole	1	
107	Establishing a concrete foundation for the steel street lighting column *(per foundation)*	1	
108	Erection of 8m street lighting column *(per column)*	1	
109	Erection of 10m street lighting column *(per column)*	1	
110	Installation of pole mounted control pillar/box (per pillar/box)	1	
111	Installation of street lighting bracket	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
112	Trenching, laying of 6/10mm2 two core Underground cable and back filling (per metre)	1	
113	Termination/luging of underground cable including gladding (per termination/lug)	1	
114	Recovery of existing street lighting column and delivery to store (per recovered column)	1	
115	Recovery of existing street lighting bracket	1	
116	Earthing comprising of 50mm earth lead, earth electrode and 300mm by 300mm concrete manhole with removable cover	1	
117	Spot welding (per Column)	1	
	TRANSPORT FOR STREET LIGHTING WORKS		
118	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	
119	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	
120	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	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
121	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	
122	Transport of recovered existing street lighting column and other accessories to stores per KM	1	
	Sub Total 1, Sum of Unit Rates for LV & MV works (VAT Exclusive)		
	HIGH VOLTAGE (66kV) WORKS		
1.	Pole hole digging per ft.	1	
2.	**Pole Hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep)** - *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)*	1	
3.	**Pole hole digging per foot (rocky ground)** - *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	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
4.	Pole erection - 14m -18m long poles (wooden)	1	
5.	**Wooden pole re-alignment per pole (where new pole hole is not necessary)** - *The rate captures the cost of: undressing the pole, aligning the pole and re-dressing the pole*	1	
6.	**Wooden pole re-alignment per pole (where new pole hole is necessary) -** 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	1	
7.	**Pole dressing including pole caps, danger plate, barbed wire and pole no. plates (1 wire)**	1	
8.	Concrete Pole erection	1	
9.	**Concrete pole re-alignment per pole (where new pole hole is not necessary)** - *The rate captures the cost of: undressing the pole, aligning the pole and re-dressing the pole*	1	
10.	**Concrete pole re-alignment per pole (where new pole hole is necessary) -** 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	1	
11.	Concrete Pole recovery including all the associated fittings	1	
12.	Wooden Pole recovery - 15m - 18m long poles	1	
13.	Stay hole digging per ft	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
14.	**Stay hole digging per foot (rocky ground)** - *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	
15.	Normal Stay making and installation	1	
16.	Flying stay making & installation (excluding the cost of erection of the flying stay pole)	1	
17.	Strut making & erection (wooden poles only)	1	
18.	Strut making & erection (concrete pole)	1	
19.	Bush clearing per km (for new lines) including suitable disposal of cuttings as approved by local authority.	1	
20.	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)	1	
21.	**Pruning of a mature tree with over hanging branches** - *cost per tree pruned including disposing the cutting to a designated location*	1	
22.	**Cutting down a mature tree** - *cost per tree cut including disposing the cutting to a designated location*	1	
23.	Single conductor stringing per km (150 sqmm)	1	
24.	Transfer of single 150mm2 conductor during maintenance per km	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
25.	Single conductor stringing per km (300sqmm)	1	
26.	Transfer of single 300mm2 conductor during maintenance per km	1	
27.	Trenching, laying of underground 66kV single core cables in 6ft deep by 2ft wide trenches, overlaying with danger/Hatari tiles and backfiling (per metre where no road crossing is involved).	1	
28.	Laying of underground 66kV single core cables in ducts (per metre where no road crossing is involved).	1	
29.	**Cables Crossing Roads:** Where cable crosses a road, a heavy gauge PVC duct (150mm diameter) with concrete surround shall be used in 6ft deep by 2ft wide trenches. All cables shall be overlaid with danger/hatari tiles (cost per crossing)	1	
30.	66kV single core cable termination and jointing	1	
31.	Single conductor recovery per km (150mm2 & 300mm2)	1	
32.	Aerial earth installation per km	1	
33.	Aerial earth recovery per km	1	
34.	A/B switch installation	1	
35.	A/B switch recovery	1	
36.	Installation of Surge diverters (complete set)	1	
37.	Surge diverters recovery (complete set)	1	
	TRANSPORT FOR 66Kv WORKS		

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
38.	Fixed wooden Pole transport per lorry load (lorry load = up to 25no. Poles) for jobs whose distance from issuing store does not exceed 20km.	1	
39.	Wooden Pole transport per lorry load (lorry load = upto 25no. Poles) for jobs whose distance from issuing store is more than 20 KM, rate per km	1	
40.	Fixed Concrete Pole Transport (for jobs not exceeding 20km from issuing stores). Up to 8No. 66kV concrete poles	1	
41.	Concrete Pole Transport per km per trip for up to 8 concrete poles (15m concrete pole is approx. 1.3 tons) for jobs which are more than 20km from issuing stores.	1	
42.	Fixed materials transport cost per lorry load (lorry load = 1.1km of line materials for jobs whose distance from issuing store does not exceed 20km.	1	
43.	Materials transport cost per lorry load per km (lorry load = 1.1km of line materials for jobs whose distance from issuing store is more than 20 KM.	1	
44.	**Fixed materials/accessories transport cost excluding Conductors (for small maintenance jobs requiring no conductors)** - *Small jobs have higher unit cost; use rate for other materials up to 20KM. If too far, use KPLC common services teams*	1	

No.	DESCRIPTION OF WORKS	QUANTITY	PROPOSED UNIT RATE (Kshs. VAT Excl.)
45.	**Transport of recovered wooden poles/materials to the nearest KPLC facility as per Project Engineer's approval, transport per km per lorry load = up to 25 recovered poles and associated accessories.** - *Evidence of return to stores should be attached to the invoice for recovered poles and associated accessories.*	1	
46.	**Fixed Transport of recovered/ unused Concrete Poles and associated recovered materials (for jobs not exceeding 20km to the issuing store). Up to 8no. poles** - *Concrete poles shall be recovered for re-use.*	1	
47.	**Transport of recovered Concrete Poles and associated recovered materials per lorry load (lorry load = up to 8 concrete poles) per km (for jobs which are more than 20km from issuing stores).** - *Concrete poles shall be recovered for re-use.*	1	
	Sub Total 2, Sum of Unit Rates for 66kV works (VAT Exclusive)		
	Grand Total, Sub Total 1 + Sub Total 2 (VAT Exclusive)		

5. **Amend clause on GCC 45,page 142 of 175 – Special conditions of contract**, to read;

   KPLC may use services of available contractor within the Region or FBBU in special circumstances where the contractor has been disqualified or declared unable to perform works as per the contract and SLA in the interim pending competitive replacement of the affected contractor 'as and when required' using their own provided rates.

6. TENDER CLOSING DATE

The tender closing date has been extended from **30th June 2022 to 14th July 2022** 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**

All other terms and conditions remain as per the Principal Tender Document (PTD)

Yours faithfully,
For: **THE KENYA POWER & LIGHTING CO.PLC**

PETER MUCHORI
Ag. SUPPLY CHAIN MANAGER (PROCUREMENT)