Kenya Power

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Our Ref: KP1/9A.3/OT/36/19-20/JM/hm

21st July, 2020

TO ALL TENDERERS

RE: ADDENDUM NO. 3 TO THE TENDER NO. KP1/9A.3/OT/36/19-20 FOR SUPPLY OF INSULATORS

Please refer to the above Tender.

We make the following clarifications and amendments to the Principal Tender Document *(hereinafter abbreviated as the PTD)* for the Tender No. KP1/9A.3/OT/36/19-20 for Supply of Insulators.

1. RELATIONSHIP WITH THE PRINCIPAL TENDER DOCUMENT

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

2. CLARIFICATIONS ON ISSUES RAISED BY PROSPECTIVE BIDDERS:

Following requests for clarifications on some issues by prospective bidders, the clarifications are hereby made as follows:

Clause Ref. No.	Clause Description/Requirement	Prospective Bidder's Query	KPLC'S Response
4.2.2.3.1	Two different types of end-fittings are defined; a)Clamp top type with designation ''HC'' & b) K-Clamp with designation ''C'' in the mentioned clause and figure	We would like to offer the Clamp-top type end-fitting with designation HC on the live side. Please confirm the same.	The bidder shall supply both: I. Designation" HC" clamp top type for Horizontal mounting complete with stud base (complete with two (2) trunnion bolts and locknut) as per ANSI C29-7 and II. K-Clamp – designation "C" in drawing in Annex B and made of corrosion resistant aluminium casting for mounting of

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			conductors of diameters between 7.6mm and 34 mm.
4.2.2.3.2	Terminals shall be manufactured according to IEC 60120, IEC 60471 & IEC 61466	The specified IEC standards are applicable for long rod insulators & hence it shall not be applicable to Line Post Insulators. Please clarify.	The applicable reference standards for Line Post Insulators i.e. IEC 61952-1:2019, IEC 61952:2008 shall be used.
4.2.2.4 & Annexure-B: Drawings, Figure 3, Figure 7 & 8	Mounting Bracket/Fixing Base	1) Mounting bracket is not applicable for the present requirement of Horizontal Line Post Insulator. Please confirm. 2) Instead of G8 designated for fitting in figure-3, we would like to offer bendable Gain base according to figure 7 & 8 based on the type of pole. So please confirm the type of the pole (wooden or steel).	1. The mounting bracket means the mounting base (GB) as in Figures 3 and 5 of Annex. B. Galvanized Steel Gain Base as per Fig 5 shall be preferred. Aluminium Gain base **shall NOT** be accepted for this tender. 2. The horizontal post insulators are to be used with both wooden and concrete poles that have circular profiles.
4.2.3.1 & Table 1	Insulation creepage: there are 3 different creepage levels 25, 31, 40mm/kV mentioned in the Table 1	Please clarify which creepage level to be considered.	Pollution zone D – Heavy with specific creepage distance of 31mm/kV shall be the minimum requirement
4.2.4.3	The final colour of insulator housing shall be brown.	Porcelain insulator possess the brown colour. As the requirement is Silicone Composite type Insulator, request you to confirm the colour of housing to be Grey.	Brown or grey colour shall be accepted.
5.3-B. Mechanical Tests-(a)	''Mechanical Load Test & tightness test of the interface between end-fittings and ''insulator housing'' is mentioned.	The specified test is applicable for Long Rod (Suspension/Tension) insulators as per IEC 61109, and not applicable for Line Post Insulator as per IEC 61952. Please confirm.	Tensile load test as part of Assembled Core Load Tests in Clause 6.3.2 of IEC 61952-1 shall be accepted instead.

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5.3-B. Mechanical Tests- (f) (ii)	Tracking & Erosion test (IEC 62217) - Test specimen ''Duration of 1000 hours - Test specimen ''Duration of 5000 hours Annex C	Please be informed latest version IEC 62217 REFERS 1000 hours' duration only. Please confirm.	The requirements of the current standard shall be met i.e. the 1,000-hour saline mist test.
5.4 – A, B, C	The tests mentioned in the clause 5.4-A, B & C are specified to be witnessed by KPLC Engineers at the factory	Please be informed these tests are part of type tests and design tests as per IEC relevant standards. Hence, these cannot be part of the Factory Acceptance Tests. So please accept them as ONE time type or design tests.	Sample and routine tests specified in Clause 8 and 9 of IEC 61952-1 shall be witnessed by KPLC engineers.
6.1.2 Marking	All marking shall be by embossing on insulator housing and marking on metal fittings shall be before galvanizing. The marking shall not affect the performance of the insulator.	Manufacturer name or trade mark will be on housing material by embossing. And other details mentioned in Clause 6.1.1 (manufacturer's designation, kV, kN, & PROPERTY OF KPLC) will be marked on metal end-fittings after galvanization. Please confirm. **Justification:** the following are the disadvantages of having marking details on metal fittings before galvanization. - Marking details on metal fittings may not be clearly visible due to the zinc layer formed on them post galvanization process.	Mark as per the specification
		- The crimping process of fittings onto the rod, would damage the markings, which may lead to non-	

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		effective marking output.	
4.2.2.1.5 of page 8	The minimum required diameter of the core shall be 63.5mm.	**Question:** For 66KV Composite Line Post Insulators Horizontal Mounting, the proper diameter of core for the required insulator technical parameters **SCL 3.8kN, MCDL 2.47kN,** is **40mm,** however the requirement of the minimum diameter 63.5mm in the specification which is too big for the 66KV composite line insulators**(SCL 3.8kN, MCDL 2.47kN)**, and also the cost will be increased a lot. Kindly clarify whether Kenya Power accept the core diameter **40mm** which could also comply with the requirement in the specification?	Provide as per the specification.
4.3 Table 3 of page 14	Specified Cantilever Load – SCL for Line Voltage 66kV is 3.8 kN. Maximum Design Cantilever Load-MCDL, 65% of SCL is 2.47kN		

3. **EXTENSION OF TENDER CLOSING DATE:**

The Tender Closing Date has been extended from 22nd July 2020 to 29th July 2020.

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

Yours faithfully,

FOR: THE KENYA POWER & LIGHTING COMPANY LIMITED

DR. JOHN NGENO
GENERAL MANAGER, SUPPLY CHAIN