



Kenya Power

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Our Ref: KP1/9A.3/OT/10/18-19/JN/hm

11th March 2019

TO:

ALL PROSPECTIVE BIDDERS

RE: ADDENDUM NO.3 TO THE TENDER NO. KP1/9A.3/OT/10/18-19 FOR FOR THE SUPPLY OF CIRCUIT BREAKER 33KV & 132KV

Please refer to the above tender.

We make the following amendments to the above Principal Tender Document

(hereinafter abbreviated as the PTD) for the Supply and delivery of fuel to Off-grid Power Stations

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. TECHNICAL CLARIFICATION ON TENDER NO. KP1/9A.3/OT/10/18-19 FOR SUPPLY OF 33KV CIRCUIT BREAKERS.

Reference is made to your email and letter dated 6th March 2019, seeking clarifications on tender no. KP1/9A.3/OT/10/18-19 for supply of 33and 132KV circuit breakers

The clarifications are made as below: -

	Clause No.	Clause description	Bidder Question	KPLC Clarification
1	1.2	Scope	We presume control relay panel shall be procured by KPLC or shall be supplied by any other supplier , hence we have not considered the same in our scope of supply.	The circuit breaker shall be an item and the panels and controls panels are not inclusive

	Clause No.	Clause description	Bidder Question	KPLC Clarification
2	2	Reference	Only IEC 62271-100 shall be applicable	All other referenced standards are applicable when and where applicable.
3	4.1.2	Insulation Levels	As per IEC for System Voltage of 36kV Power frequency withstand voltage for 1min shall be 70kVrms & Lightning Impulse shall be 170kVp. After applying altitude correction factor for 2200m, Power frequency withstand voltage for 1min shall be 81kVrms & Lightning Impulse shall be 197kVp. Therefore 95kVrms/200kVp should be sufficient to meet the requirement.	As per specification , these are the acceptable values
4	4.1.2.3	Protected Creepage	Protected creepage shall be 444mm.	The specified value is a minimum of 780mm as table 2, item 22.
5	4.1.6.5.9	Table 2	Opening time shall be 65 ms. Opening time less than 3 cycles shall cause increase in nuisance tripping.	As per specification and table 2, item 9, the opening time shall be <35ms (approximately 1.5 cycles)
6	4.1.6.5.12	Table 2	First pole to clear factor shall be 1.5 as per IEC specifications.	As per specification, table 2 item 12 It shall be 1.5 for terminal fault and 2.5 for out of phase faults
7	4.1.6.5.14/4.8.1	Table 2	Maximum Break time shall be 80 ms, which is 15 ms of arcing time and opening time of 65 ms.	Maximum breaking time is 3 cyles(60ms) as per table 2 item 14
8	4.1.6.5.22	Table 2	Protected creepage shall be 444mm.	As per specification and table 2, item 22 it is 780mm
9	4.3	Aux. Power Supply	Kindly confirm whether Power pack is in supplier scope of supply.	Power is not in the scope
10	5.3	Type Test	As per IEC 62271-100 following tests are not mandatory, and hence should not be applicable. 1. Radio interference voltage 2. Tightness Test	Type test report shall be submitted with tender for evaluation

Clause No.	Clause description	Bidder Question	KPLC Clarification
		3. EMC Test 4. Static Terminal Load test 5. Switching of shunt reactor test 6. Critical current test. 7. Humidity Test	

1. The type of circuit breaker (Single Pole or Three Pole operation) is not available in the BOQ. Please clarify the type of Circuit Breakers for each of the items mentioned in the BOQ below:

Item No.	*KPLC Code	Brief Description	Unit of Measure	Quantity	Tick Item offered
1	199069	CIRCUIT BREAKER 33KV-VACUUM OUTDOOR	Pc	35	
2	199072	CIRCUIT BREAKER 132KV 3PH SF6 OUTDOOR	pc	5	
3	199389	CIRCUIT BREAKER 132KV LTB 170D1/B	Pc	4	

Clarification 1

Code 199072 and 199389: These are the same items. Consolidate into one. The LTB 170D 1/B is a brand name. Consolidate 2 and 3 into 2 and the total becomes 9

Q2. CI No 4.1.1: The Altitude mentioned in the specification ranges up to 2200m above sea level. Please clarify the exact Altitude as per site condition to offer suitable products.

Clarification 2

The equipment shall be operated at varied altitudes, the maximum being 2200m ASL

Q3. CI No 4.2.4: Please confirm if Gas filling equipment to be supplied as part of offered scope. If yes, kindly provide the quantities of SF6 kits required to consider in our offer.

Clarification 3

Provide one complete set of filling equipment, compatible with the equipment on offer. 15kg of SF₆ shall be supplied.

Q4. CI No 4.3.9: Circuit Breakers will be equipped with Terminal pads for connection to Terminal connectors for Bus bar connections. However, we understand that terminal connectors are not part of offered scope. Kindly confirm

Clarification 4:

The clamps to be supplied as specified in clause 4.3.9 of tender specification

Q5. CI No 4.4: The Power frequency (325kV rms) and Lightning Impulse withstand voltage (750kVp) mentioned in the specification are corresponding to 170kV rated voltage. As Highest

Voltage of the equipment is 145kV, please clarify if di-electric values according to IEC 62271-1 for 145kV are acceptable instead of 170kV.

Clarification 5:

Comply with the values specified in clause 4.4 of specification.

Q6. Scope clarifications: Please clarify if Steel structures are to be included in our offered scope

Clarification 6

The equipment shall be complete with all components and accessories to ensure successful erection.

Please note the clarification and adhere to it.

All other terms and conditions remain the same.

Yours faithfully,

FOR: THE KENYA POWER & LIGHTING COMPANY LIMITED



EVA ANJICHI
Ag. SUPPLY CHAIN MANAGER, PROCUREMENT

Handwritten initials and date:
11/3/19