



Kenya Power

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Our Ref: KP1/9AA-3/PT/02/14-15/dn

23rd May 2014

M/s -----

RE: ADDENDUM NO. 2 TO THE TENDER NO. KP1/9AA-3/PT/02/14-15
FOR SUPPLY OF DISTRIBUTION TRANSFORMERS – 3 YEAR FRAMEWORK CONTRACT

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 Supply of Distribution Transformers dated April 2014.

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. AMMENDMENT TO SECTION III – INSTRUCTIONS TO TENDERERS

Clause 3.43 on Monopolies and Restrictive Trade Practices is hereby deleted.

3. AMMENDMENT TO SECTION IV SCHEDULE OF REQUIREMENTS TABLE 2 – EXPECTED DELIVERY SCHEDULE FOR THE MINIMUM QUANTITY

The delivery schedule is amended to include the delivery date for the minimum quantity as December, 2014. The delivery destinations and quantity remain the same.

4. AMMENDMENT TO SECTION XIA, XIB, and XIC TENDER SECURITY FORMS

Note No. 4 to the Tender Security Forms is amended to read as follows:

“The Tender validity period is one hundred and twenty (120) days as set out in the Invitation to Tender (at Section I of the Tender document) or as otherwise may be extended by KPLC. Therefore the Tender Security must at all times be valid for at least 30 days beyond the tender validity period”

5. AMMENDMENT TO ITEM DESCRIPTIONS OF THE TRANSFORMERS REQUIRED IN THE TENDER DOCUMENT

The item descriptions of the transformers required in the tender document have been amended as follows:

Item No.	KPLC Code	Previous Description	New Description
1	453105	TX 25KVA S/PHASE 11/0.250KV	TX 25KVA S/PHASE 11/0.242KV
2	453152	TX 25KVA S/PHASE 33/0.250KV	TX 25KVA S/PHASE 33/0.242KV
3	453157	TX 50KVA 3/PHASE 33/0.433KV	TX 50KVA 3/PHASE 33/0.42KV
4	453104	TX 15KVA S/PHASE 11/0.250KV	TX 15KVA S/PHASE 11/0.242KV

6. REPLACEMENT OF SPECIFICATIONS

The tender specifications are replaced as follows:

1. Specification for distribution transformer Part 1: Pole Mounted Single Phase Oil Type Distribution Transformer No. KP1/3CB/TSP/10/001-01 Issue No. 2 dated 20.07.2012

REPLACED WITH:

Specification for distribution transformer Part 1: Pole Mounted Single Phase Oil Type Distribution Transformer No. KP1/3CB/TSP/10/001-01 Issue No. 3 dated 19.05.2014

2. Specification for distribution transformer Part 2: Pole Mounted three Phase Oil Type Distribution Transformer No. KP1/3CB/TSP/10/001-02 Issue No. 2 dated 30.04.2010.

REPLACED WITH:

Specification for distribution transformer Part 2: Pole Mounted three Phase Oil Type Distribution Transformer No. KP1/3CB/TSP/10/001-02 Issue No. 4 dated 20.05.2014.

The new specifications are attached to this addendum.

7. CLARIFICATIONS HAVE BEEN SOUGHT AS FOLLOWS:

Question No. 1

For the 25 kVA single phase distribution transformers 11KV/0.25KV 11kV single phase transformers:

1. Is a wound core acceptable?
2. Instead of aluminium foil can we use aluminium conductor?
In your specifications the manufacturer noted that you mentioned use of aluminium foil, copper foil and copper conductor. Can aluminium conductor also be used?

Answer

1. Wounded core is accepted.
2. The HV winding shall be full coil of copper or aluminium.
The LV winding shall be foil or strip conductor of copper or aluminium

Question No. 2

The technical specification attached along with the tender is silent on the use of Aluminium windings in the secondary (LV) winding.

Answer

As per Clause No 4.4.4, The HV & LV winding shall be separated so as to allow for cooling ease of repair.

Question No. 3

It is not suitable for wound core transformers which will have rectangular coils.

Answer

1. The LV winding shall be foil or strip of copper or aluminium.
2. For each design HV winding over LV shall be separated by providing cooling ducts and shall be repairable easily.

Question No. 4

We request that KPLC also incorporate the coefficients for the other inputs in the table of coefficient to be used in calculation of the price variation. Since we do not know any standard source which tracks & releases price data for these coefficients, we suggest that the price variations indices released by IEEMA are accepted for standard calculation of Price Variation.

The Price Variation Formula is also silent on the formula to be applied in the case of composite windings (Copper + Aluminium) and for transformers with Aluminium windings only.

Answer

The price variation formula shall be as specified in the tender.

Questions For 25KVA 11&33 KV

Question No. 5

KPLC (Kenya Power Lighting Co. Ltd) Clause No. 4.2.9

As per clause 4.2.9. Rain water shall not collect anywhere on top cover and gaskets shall be concealed by bend in the top cover of 90°.

The respective clause shall be applicable for rectangular tank and not for round shape of tanks. Please confirm.

Answer

It is confirmed that bend in top cover of 90° is applicable to rectangular tank. For round tank the gasket shall be concealed by an overlap of 5mm between the top cover and tank flange or any other suitable method. Rain water shall not collect anywhere on the top cover.

Question No. 6

KPLC Clause no 4.4.3

As per clause No. 4.4.3. The primary shall be of full coil copper or aluminium wires as opposed segmented windings and the secondary windings shall be coil or foil of copper or foil of aluminium.

We bring to your kind notice that, LV winding shall be coil or foil of copper or foil of aluminium, but not stating about aluminium coil. Please mention an option for aluminium coil or strip/ wire for LV winding.

Answer

LV winding shall be coil or foil or strip of copper or foil or strip of aluminium.

Question No. 7

KPLC Clause no 4.4.4

As per Clause No 4.4.4, The HV & LV winding shall be separated so as to allow for cooling ease of repair. Does it mean LV & HV coils shall be made separately and inserted? If so, it is not suitable for wound core construction i.e. for rectangular coils. In case of rectangular coils, HV wound over LV and is separated by providing cooling ducts and can be repairable easily. Please confirm.

Answer

For each design, HV winding wound over LV shall be separated by providing cooling ducts and shall be repairable easily.

Question No. 8

KPLC Clause no 4.4.7

As per Clause No.4.4.7 the radial spacer blocks must be made of pre-compressed pressboard material, which will not soften while in contact with oil or fray out fibers or edges. The slots should be so dimension that the blocks will not come out of the slots.

The respective clause is not applicable for wound core (Rectangular coils). Hence please confirm.

Answer

Where used, the radial spacer blocks shall be made of pre-compressed pressboard material, which will not soften while in contact with oil or fray out into fibers or edges. The slots should be so dimensioned that the blocks will not come out of the slots.

Question No. 9

KPLC Clause no 4.4.5

As per No. 4.9.9.3, Minimum external air clearance (with terminal clamps fitted) shall be as shown in under

Nominal System Voltage Between Phases		250 V	11 KV	33 KV
Minimum Clearance between phase to To Earth	mm	80	200	400
Minimum Clearance Phase to Phase between phases of the same winding	Mm	80	200	400
Minimum Clearance between a line terminal of The high voltage winding and a line terminal of a voltage winding	Mm	N/A	200	400
Minimum Creepage distance	mm	60	300	900

As per Clause No.4.10. Note 2. Altitude correction applied on the external clearance and bushings selection to attain required external insulation as per IEC 60076-3.

The respective clauses are contradicted. So this connection shall we proceed with the minimum external air clearance as per IEC 60076-3 and by taking altitude correction i.e. as per Clause No. 4.10. Please confirm.

Answer

The external air clearances shall be as per specifications. The clearances specified by IEC 60076-3 are only applicable when clearances in air are not specified by the purchaser. In addition, the standard does not consider the risk from intrusion of birds and other animals.

Question No. 9

KPLC Clause no 4.11.6

As per Clause No. 4.11.6, the top cover fixing shall be hot dip galvanized steel bolts and synthetic rubber and cork composition gasket 6mm minimum thickness.

The respective clause shall we treat as "the top cover fixing shall be hot dip galvanized steel bolts and synthetic rubber (or) composition gaskets 6mm minimum thickness". Hence please confirm.

Answer

Top cover fixing shall be as per specification.

Question No. 10

KPLC Clause no 5.3.1

As per clause No. 5.3.1, Routine test: Test on Tap Changer

Shall we treat the respective clause as Routine test: Test on off load Tap changer (Mechanical Operation)

Answer

The routine test on tap changer is for mechanical operations.

For 50kVA, 33/0.433 kV:

Question No. 11

KPLC Clause no 4.11.4

As per Clause No 4.11.4 the main tank body shall be pressure tested to IEC standard and a certificate issued by ISO/IEC 17025 accredited laboratory ascertaining the soundness of all welded joints. A certified copy of the certificate shall be submitted with the tender for evaluation.

In this regard, we request you kindly provide the exact number in the IEC standard, which specifies the test procedures to test the tanks according to the standard.

Answer

IEC is quoted for general reference. A test certificate by ISO/IEC 17025 accredited laboratory will be accepted.

Question No. 12

KPLC Clause no 4.2.15

As per Clause No. 4.2.15. Each transformer shall be suitable for "H" pole mounting. It shall be complete with two steel channels under base each with two holes (elliptical 20mm X 150mm) for bolting onto a steel channel transformer platform (of similar construction) by KPLC during installation.

For smaller ratings, the base channel length of 460mm and the hole sizes of 20mm X 50mm per channel is sufficient. We have provided the same in our past supplies to KPLC. Hence confirm

Answer

The query does not specify the smaller ratings in question. The steel channel under base shall be as per specifications and the successful bidder shall submit drawings to KPLC for approval before manufacture.

Question No. 13**KPLC Clause no 4.9.9**

As per Clause No 4.9.9. Minimum external air clearances shall be as shown in under;

Nominal System Voltage Between Phases		LV	11 KV	33 KV
Minimum Clearance between phase to To Earth and phase to Neutral	mm	80	300	485
Minimum Clearance Phase to Phase between phases of the same winding	Mm	100	250	435
Minimum Clearance between phase to phase Between phases of the same winding and a line Terminal of a lower voltage winding	Mm	N/A	300	485
Minimum creepage distance	mm	60	300	900

Shall we proceed with the below mentioned clearances as per IEC 60076-3 with 12% altitude (2200M) correction factor applied. Please confirm.

Minimum external air clearances shall be as shown in under

Nominal System Voltage Between Phases		LV	11 KV	33 KV
Minimum Clearance between phase to To Earth and phase to Neutral	mm	70	135	360
Minimum Clearance Phase to Phase between phases of the same winding	Mm	70	135	360
Minimum Clearance between phase to phase Between phases of the same winding and a line Terminal of a lower voltage winding	Mm	N/A	135	360
Minimum creepage distance	mm	55	300	900

Answer

The external air clearances shall be as per specifications. The clearances specified by IEC 60076-3 are only applicable when clearances in air are not specified by the purchaser. In addition, the standard does not consider the risk from intrusion of birds and other animals

Question No. 14

For 50 KVA 3/Phase 33/0.433 KV transformers

Can we submit type test of transformers with voltage ratio of 11/0.433 in place of 33/0.433 kV.

Answer

Type test reports shall be for an identical or higher voltage and KVA rating. Type test report for 50 KVA 11/0.433 KV is therefore not accepted for 50 kVA 33/0.433 KV.

Question No. 15

Performance Security – As per the tender document, 10% of the contract value.

Please clarify – Contract Value will be based on minimum quantity or maximum quantity. The contract value will be variable in this tender.

Answer

The Contract Value will be based on minimum quantity but may be variable up to 30% of maximum quantity within the 3 year framework contract period.

Question No. 16

Addendum 1 – page no. 2 of 5 and Page no. 4 of 5 are missing in the website.

Answer

Page no. 2 of 5 and Page no. 4 of 5 of **Addendum 1** that were missing from the KPLC website are now uploaded.

CHANGE OF CLOSING DATE

The closing date has been changed from 29th May, 2014 to **12th June, 2014 at 10.00am.**

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

Yours faithfully,

FOR: THE KENYA POWER & LIGHTING COMPANY LIMITED



Eng. JOHN OMBUI

CHIEF MANAGER SUPPLY CHAIN AND LOGISTICS

