



# Kenya Power

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StimaPlaza, Kolobot Road*

Our Ref: KP1/9AA-3/PT/28/14-15/dn

20<sup>th</sup> November, 2014

M/s -----  
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**RE: ADDENDUM NO. 1 TO THE TENDER NO. KP1/9AA-3/PT/28/14-15 FOR SUPPLY OF 66KV VOLTAGE AND 245 KV CURRENT TRANSFORMERS**

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 66KV Voltage and 245 KV Current Transformers dated October, 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. CLARIFICATIONS HAVE BEEN SOUGHT AS FOLLOWS:**

**Question 1:**

As per clause 4.3 for 66KV Inductive Voltage Transformer Specification, it is mentioned that for altitude of 2200 masl the arching distance is to be multiplied with the altitude correction factor of 1.16 and therefore arching distance shall be  $325\text{kVp} \times 1.16 = 377\text{kVp}$ , the nearest value is 450 Vp.

Query – written value 325kvp, is considered as arching distance in above clause. Actually 352kvp is the lightning impulse withstand voltage for 66kv equipment, as per IEC is asked to multiply correction with arching distance. Arching distance is the straight distance between upper part of porcelain and lower part of porcelain excluding aluminum flange. For 66kv IVT is the arching distance is 700mm in normal condition then with correction of altitude it will become 812mm. thus only arching distance change which will take care of the external insulation because of increase

altitude. Thus the BIL i.e impulse level of internal insulation of VT remain same as standard one i.e 325kvp.

Request to check and confirm above query

**Answer:**

The terminology used in the specifications is as per IEC standard (IEC 60044-2 & 5) see text below.  
[4.2.1 Altitude: For installation at an altitude higher than 1000 m, the arcing distance under the standardized reference atmospheric conditions shall be determined by multiplying the withstand voltages required at the service location by a factor k in accordance with Figure 1.

NOTE As for the internal insulation, the dielectric strength is not affected by altitude. The method for checking the external insulation shall be agreed between manufacturer and purchaser]

Although the text in the specs indicates withstand voltage, the manufacturer should give the corresponding arcing distance in mm.

**Question 2:**

Query – As per IEC 60044-2 test 5.3.8, 5.3.10, 5.3.11 comes under type test or special test. Thus these test must be excluded from the witnessed test list.

**Answer:**

Tests shall be carried out as per tender specifications.

**Question 3:**

Query – written value 325kvp, is consider as arching distance in above clause. Actually 325kvp is the lightning impulse withstanding voltage for 66kv equipment. As per IEC is asked to multiply correction with arching distance. Arching distance is the straight distance between upper part of porcelain and lower part of porcelain excluding aluminum flange. For 66kv IVT is the arching distance is 700mm in normal condition, then with correction altitude it will become 812mm. thus only arching distance change which will take care of the external insulation because of the increase altitude. Thus the BIL i.e. impulse level of internal of internal insulation of VT remain same as standard one i.e 325 kvp

**Answer:**

Please refer to the Answer to question 1 above.

**Question 4:**

Query – as per IEC 60044-5 test 5.3.11 comes under special test. Thus this test must be excluded from the witnessed test list.

**Answer:**

Tests shall be carried out as per tender specifications.

**Question 5:**

We would like to ask about the type of the CTs the end user prefer to apply for this project, is it live tank type (cores on the top) or dead tank type (cores on the bottom)?

**Answer:**

The Photo below shows one of the current transformers in the substation.  
The required current transformer is similar.



**Please note that:**

- a) The type of current transformer required shall be as per the above photo.
- b) The required number of cores shall be 6 (six) all identical with details and ratings as per clause 4.3 of tender specifications

**Question 6:**

There is no Address of the KPLC stores or other DDP site indicated, please clarify final DDP destination.

**Answer:**

The delivery destination is **KPLC BULK STORE, INDUSTRIAL AREA, NAIROBI.**

**Question 7:**

Clause 7.7.6 indicates that the Performance Security Shall be valid for a minimum of sixty (60) days after satisfactory delivery.

Clause 7.7.8 indicates that subject to the provision of this contract the Performance Security will be discharged by KPLC and returned to the supplier not earlier than thirty days following the date of completion of the Supplier's obligations under the contract, including any warranty obligations under the contract.

Please confirm when the Performance Security will be released, 60 days after satisfactory delivery or 30 days after warranty period?

**Answer:**

The Performance Security will be released **not earlier than thirty (30) days** following the date of completion of the Supplier's obligations under the contract as per clause 7.7.8.

Clause 7.7.6 refers to the required validity of the Performance Security.

**CHANGE OF CLOSING DATE**

The closing date has been changed from **18<sup>th</sup> November, 2014 to 2<sup>nd</sup> December, 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

**GENERAL MANAGER SUPPLY CHAIN**