



The Kenya Power & Lighting Co. Ltd.
Central Office – P.O. Box 30099, Nairobi, Kenya
Telephone – 254-02-3201000-Telegrams 'ELECTRIC'- www.kenyapower.co.ke
Stima Plaza, Kolobot Road

Our Ref: KP1/6E.2/PT/4/16/A50

20th July, 2016

M/s

Dear Sir/ Madam:

CLARIFICATION No 1: ON ICB No: KP1/6E.2/PT/4/16/A50 FOR PROCUREMENT OF DISTRIBUTION TRANSFORMERS ISSUED ON 16th JUNE, 2016


1. CLARIFICATION TO BID DOCUMENT

The following responses are made to clarifications sought on various issues in the Bidding Documents for Procurement of Distribution Transformers.

No.	Query	RESPONSE
1.	How do we access the bidding document for tender-ICB No: KP1/6E.2/PT/4/16/A50 on the KPLC website?	A complete set of bidding documents in English may be downloaded without any fee by interested bidders at www.kplc.co.ke or purchased at the address below upon payment of a non-refundable fee of KES 1000 or equivalent amount in a freely convertible currency. The method of payment will be Cash or Bankers Cheque, payable at the Chief Accountant's Office, KPLC, Stima Plaza, 1st Floor, and receipt obtained.
2.	What is the formality of registering for the tender?	No formal prior registration is required to participate in this tendering.
3	If a company downloads the bidding document from the website, will it be considered eligible tenderer?	Yes, Interested eligible bidders may download the bidding document from KPLC website(www.kplc.co.ke) for free
4	If a company submits the bid securing declaration (form provided in the bidding documents), will it be considered the eligible tenderer?	No, Bid Securing Declaration form is not acceptable for this tender. Bid Security shall be in the form of a Bank Guarantee only and in the Format provided under Section IV-Bidding Forms. As per ITB 19.3 (d) other types are not acceptable.

No	Query	RESPONSE
5.	<p>The Bid document provides the requirements of 50kVA 3phase TX 11/0.433Kv and 33/0.433kV respectively, but Part 1 & 2 of the bidding document differs in specification and rating. The tender requirement has extensively mentioned of 11/0.420kV on part 2 document.</p> <p>Confirm the actual specification for the tender required for a competitive bidding and include whether Copper or Aluminum wound.</p>	<p>The Distribution transformers being procured under this bid document are three phase 50 kVA and therefore Technical Specification Part 1 (which are specifically for S-phase Transformers) is not relevant to this tender.</p> <p>The applicable specifications are as indicated in technical specification part 2.</p> <p>Yes, copper, or aluminium winding transformers are included in the technical specifications of the bidding document (winding materials clause 4.4.2, 4.4.2.1; 4.4.2.2 and 4.4.2.3).</p>
	<p>Under Part 2 of the specifications for 50kVA, the ratings indicated in the Invitation for Bids (IFB), and in the Bidding Documents is 11/0.433kv, and 33/0.433kv while in the technical specification Part 2 attached indicates 11/0.420kv and 33/0.420kv. What is the correct rating?</p>	<p>The applicable Ratings are under Clause 4.3.1 (a) and (b) of Technical Specification Part 2. The transformers shall therefore be of the following ratings:</p> <p>a) 11000/420V:50kVA b) 33000/420V:50kVA</p>
6.	<p>As per the Price Schedule: Goods Manufactured Outside the Purchaser's Country, to Be Imported, Page 46, Section IV-Bidding Forms, Part 1 Bidding Procedures, the rating of Distribution Transformers for 50kVA is 11/0.433kV & 33/0.433kV while in the technical specification Part 2 attached Clause 1.1 indicates 11/0.420kV and 33/0.420kV. Please clarify the LV Voltage rating?</p>	<p>The applicable Ratings are under Clause 1.1 of the specification. (a) and (b) of Technical Specification Part 2. The transformers shall therefore be of the following ratings:</p> <p>a) 11000/420V:50kVA b) 33000/420V:50kVA</p>
7.	<p>On the SPEC of the Kenya tender, part 2, there are some binding limitations on the following data:</p> <ul style="list-style-type: none"> - Current density on page 10 - Losses on page 17 - External clearances in air on page 20 <p>Sticking to these rules will make the dimensions of transformer much bigger and thus the prices higher. Would you please check if we could have some deviations on these parts for the sake of a more optimized and cheaper transformer? If not of course, we will go ahead with the current specification.</p>	<p>Please refer to the Technical specifications of the bidding document.</p>

No	Query	RESPONSE												
8.	<p>Section III Evaluation and Qualification Criteria, Qualification (ITB 36) (b) If bidder is not manufacturer:</p> <p>In case bidder offers goods on behalf of manufacturers under manufacturers 3authorization. Please confirm that bidder can furnish Manufacturer Authorization form from more than one manufacturer.</p>	<p>Yes, as per ITB 17.2 (a) a Bidder may submit the Manufacturer's Authorizations using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by various manufacturer or producers of the Goods to supply these Goods in the Purchaser's Country.</p> <p>However, during evaluation the employer will pick the best-qualified manufacturer who shall then be considered to supply all the items in bids i.e. the contract signed shall have only one manufacturer for the goods.</p>												
	<p>Section III Evaluation and Qualification Criteria, Qualification (ITB 36).</p> <p>Please confirm that in case of bidder who is manufacturer can support by providing Manufacturer Authorisation to other bidders who are not manufacturer.</p>	yes												
	<p>Section III Evaluation and Qualification Criteria, Qualification (ITB 36) (b) If bidder is not manufacturer:</p> <p>The Manufacturer who provided the Manufacture's authorization shall demonstrate and meet Experience Capacity and supply capacity as given above (ii & iii of if bidder is a Manufacturer.</p> <p>Please confirm that in case of bidder is submitting Manufacturer's experience capacity for the supply of different ratings (50kVA to 500 kVA) of distribution transformers (1000 nos) supplied outside the country of bidder during the last 5 years shall be acceptable.</p>	<p>Where the Bidder is not from the purchaser's country, then the Bidder shall furnish documentary evidence to demonstrate that it has supplied minimum quantities of distribution Transformers tabulated below, outside the country of Bidder during the last five years.</p> <table border="1" data-bbox="858 1245 1481 1469"> <thead> <tr> <th data-bbox="863 1245 1225 1312">Description Of Goods</th> <th data-bbox="1230 1245 1476 1312">Quantity (Meters)</th> </tr> </thead> <tbody> <tr> <td data-bbox="863 1319 1225 1391">50KVA 3/PHASE Transformer, 11/0.420kV</td> <td data-bbox="1230 1319 1476 1391">400</td> </tr> <tr> <td data-bbox="863 1397 1225 1469">50KVA 3/PHASE Transformer, 33/0.420kV V</td> <td data-bbox="1230 1397 1476 1469">600</td> </tr> </tbody> </table>	Description Of Goods	Quantity (Meters)	50KVA 3/PHASE Transformer, 11/0.420kV	400	50KVA 3/PHASE Transformer, 33/0.420kV V	600						
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9.	<p>The minimum internal clearances mentioned in specifications is more than the required as per relevant standards. Due to this clause, the transformer price will also go-up. Hence, we request to amend the minimum internal Air clearances as below.</p> <table border="1" data-bbox="204 1845 799 2107"> <thead> <tr> <th data-bbox="204 1845 512 1883">Description</th> <th data-bbox="517 1845 564 1883"></th> <th data-bbox="569 1845 683 1883">11KV</th> <th data-bbox="687 1845 799 1883">33KV</th> </tr> </thead> <tbody> <tr> <td data-bbox="204 1890 512 1995">Minimum radial clearance of LV coil and core.</td> <td data-bbox="517 1890 564 1995">m m</td> <td data-bbox="569 1890 683 1995">3</td> <td data-bbox="687 1890 799 1995">3</td> </tr> <tr> <td data-bbox="204 2002 512 2107">Minimum radial clearance of LV coil and earth.</td> <td data-bbox="517 2002 564 2107">m m</td> <td data-bbox="569 2002 683 2107">3</td> <td data-bbox="687 2002 799 2107">3</td> </tr> </tbody> </table>	Description		11KV	33KV	Minimum radial clearance of LV coil and core.	m m	3	3	Minimum radial clearance of LV coil and earth.	m m	3	3	<p>The minimum internal air clearances cannot be amended and it shall be as per clause 4.10.2 of the Technical specifications, table 10 on internal clearances.</p>
Description		11KV	33KV											
Minimum radial clearance of LV coil and core.	m m	3	3											
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	<table border="1"> <tr> <td>Minimum radial clearance between LV and HV.</td> <td>m</td> <td>6</td> <td>17</td> </tr> <tr> <td>Minimum electrical clearance between the surface of the tank tapping leads and edge of windings.</td> <td>m</td> <td>30</td> <td>50</td> </tr> <tr> <td>Minimum radial clearance between HV and HV Windings.</td> <td>m</td> <td>6</td> <td>17</td> </tr> </table>	Minimum radial clearance between LV and HV.	m	6	17	Minimum electrical clearance between the surface of the tank tapping leads and edge of windings.	m	30	50	Minimum radial clearance between HV and HV Windings.	m	6	17																	
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10	<p>Please confirm, whether tolerance is applicable on short circuit impedance as per BS EN 50464-1 or shall we treat this short circuit impedance as 4% (Maximum) for 11/0/420 and 4% (Maximum) for 33/0.420kV.</p>	<p>The Values indicated in clause 4.7.1, of the Technical specifications Table 5 are maximum values. The supplied transformers shall not exceed those values for both losses and short circuit impedance.</p>																												
11	<p>As per IEC 60076 part 3 with altitude correction factor of 12%(for altitude 2200m) Minimum external air clearances shall be shown under</p> <table border="1"> <tr> <td>Nominal System Voltage Between Phase Centers</td> <td>LV</td> <td>11kV</td> <td>33kV</td> </tr> <tr> <td>Phase to Earth and Phase to Neutral</td> <td>mm</td> <td>70</td> <td>135</td> </tr> <tr> <td>Phase to phase between phases of the same winding</td> <td>mm</td> <td>70</td> <td>135</td> </tr> <tr> <td>Creepage distance</td> <td>mm</td> <td>55</td> <td>300</td> </tr> </table> <p>Hence please confirm</p>	Nominal System Voltage Between Phase Centers	LV	11kV	33kV	Phase to Earth and Phase to Neutral	mm	70	135	Phase to phase between phases of the same winding	mm	70	135	Creepage distance	mm	55	300	<p>The External air clearances shall be as per the specification table 9 below;</p> <table border="1"> <tr> <td>Nominal System Voltage Between Phase Centers</td> <td>11kV</td> <td>33kV</td> </tr> <tr> <td>Phase to Earth and Phase to Neutral</td> <td>m</td> <td>200</td> </tr> <tr> <td>Phase to phase between phases of the same winding</td> <td>m</td> <td>200</td> </tr> <tr> <td>Creepage distance</td> <td>m</td> <td>300</td> </tr> </table> <p>The LV external air clearance shall be as per IEC 60076- part 3</p>	Nominal System Voltage Between Phase Centers	11kV	33kV	Phase to Earth and Phase to Neutral	m	200	Phase to phase between phases of the same winding	m	200	Creepage distance	m	300
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12	<p>Please provide surge arrester specification no KP1/6C.1/13/TSP/11/032 & transformer oil specifications KP1/6C.1/13/TSP/08/001 as the same is not enclosed along bid document</p>	<p>Find attached specifications for surge arresters KP1/6C.1/13/TSP/11/032. Specifications for Transformer oil can be downloaded at the KPLC web site.</p>  <p>KP1-6C 1-13-TSP-11-03-Spec</p>																												
13	<p>As per technical specification for three phase transformer, total losses for 33kV & 11kV distribution transformer shall be 1050 watts and 750 watts respectively. Please confirm that these mentioned total losses are inclusive of stray losses.</p>	<p>These total losses shall be as per clause 4.7.2 and 4.8.2 of the Technical specification</p>																												

	Query	RESPONSE
14	As per clause, 4.4.2.4 of Guaranteed technical Particular, Kenya Power shall do the stage inspection of distribution transformer. Please confirm the number of stage inspection carried out by Kenya Power and Number of employee from Kenya Power who will attend the stage inspection. Also, confirm whether on request Kenya Power will waive off this stage inspection.	Clause 5.3 of the technical specification provides for acceptance testing by two KPLC Engineers. The tests shall be witnessed before every shipment.
15	As per clause no 4.7.8 of Guaranteed Technical Particular, bidder has provide value against the capitalization. Kindly note that we are not clear what value against this clause has to be provided. Please clarify.	Capitalization shall be based on clause 4.8 of the Technical specification

Yours faithfully,

For: KENYA POWER & LIGHTING COMPANY LIMITED.

ENG. JOSEPH K. GATHURU
ELECTRIFICATION PROJECT MANAGER