



# ZIMBABWE ELECTRICITY TRANSMISSION & DISTRIBUTION COMPANY

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OUR REF:..... FN/ec .....

YOUR REF .....

WHEN CALLING WITH REFERENCE  
TO THIS LETTER PLEASE ASK FOR

..... F. Nyamakambo.....

20 March 2024

**To All Bidders**

Dear Sir/Madam

**CLARIFICATION NO. 2 FOR TENDER NO. ZETDC/INTER/13/2023 FOR THE DESIGN, MANUFACTURE, TESTING, SUPPLY AND DELIVERY OF METERING CURRENT TRANSFORMERS**

The above subject matter refers.

Attached herewith is **CLARIFICATION NO. 2** for Tender No. ZETDC/INTER/13/2023 for the Design, Manufacture, Testing, Supply and Delivery of Metering Current Transformers in response to queries raised by participating Bidders.

Yours faithfully

A handwritten signature in black ink, appearing to read 'F. Nyamakambo', is written over the signature line.

**F. NYAMAKAMBO**  
**SUPPLY CHAIN MANAGER**

TENDER NO. ZETDC/INTER/13/2023 FOR THE DESIGN, MANUFACTURE, TESTING, SUPPLY AND DELIVERY OF METERING CURRENT TRANSFORMERS

CLARIFICATION NO. 2

Item	Description/Query from Bidder(s)	ZETDC Response
1.	<p>The required burden of the current transformers must be 15 VA, but actually, based on the 0.2 class, Lmzjl-60 model size, the 7.5 VA is the highest VA. Kindly clarify why it could not be 15 VA, here is the explanation from our manufacturer engineer:</p>	<p>The required accuracy class is 0.2 and to avoid compromising on the meter accuracy we will accept a burden in the range from 7.5VA to 15VA</p> <p>We don't want the CTs to become too bulky and to cater for those manufacturers having challenges with meeting requirements with a burden of 15VA, we will broaden the specification to include anything in the range from <b>7.5VA to 15VA.</b></p>
	(i) The burden of the current transformers is mainly determined by the size of the iron core and the number of coil turns. The burden of the current transformer cannot be increased while the product size structure and current ratio remain unchanged.	Noted
	(ii) The burden of current transformer has strict requirements. Unlike the burden of the transformer, bigger is not always better. According to the IEC standard $P=I^2R$ , the load capacity of 7.5 VA is actually very large. If the actual load does not have 15 VA, it will reduce the accuracy of the current transformer. How long is the cable between the current transformer and the meter?	Noted
	(iii) The existing product size cannot meet requirements of 15 VA class 0.2. If it must be 15 VA, then we need to redesign the product and open the mold, which will take a long time to develop.	Noted
2.	In addition to 1 (i) above, another Bidder states that the burden of 15 VA will result in the increase in CT dimensions which will make it impossible for the CTs to fit in the existing standard CT chamber on the meter boards.	To avoid increase in size of CTs for those manufacturers having challenges meeting requirements with a burden of 15VA, we will accept burden in the range <b>7.5VA to 15VA.</b>
3.	In addition to 1 (ii) above, another Bidder states that the demand for 15 VA is unexpected considering that all the modern meters are now electronic with less resistance, 15 VA was meant for the old electro mechanical meters, unless these meters are still being installed in Zimbabwe of which I doubt.	Burden is not only imposed by meters alone but also and at times we have main and check meters so the burden should be adequate to match the additional load. To cater for those manufacturers failing to fully meet requirements with 15VA we are broadening our specification to include burden in the range from <b>7.5VA to 15VA.</b>

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**20 MAR 2024**

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4. If the actual CT load is well below 15 VA being asked for, this will reduce the accuracy of the CT. This will definitely affect those metering points where the cables between the CTs and the meter is not too long, which is the case with the majority of the metering points having CTs & meters within 2 meters of each other.

We will accept CTs with a burden in the range from **7.5VA to 15VA** to cater for those manufacturers with a challenge of meeting the size and accuracy class of 0.2

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