



# 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.....

26 July 2022

## To All Bidders

Dear Sir/Madam

### CLARIFICATION NO. 1 TO TENDER NO. ZETDC/INTER/10/2022 FOR SUPPLY AND DELIVERY OF CIRCUIT BREAKER ANALYSER TEST SETS

The above subject matter refers.

Kindly find attached **Clarification No. 1** in response to a query raised by a participating bidder for Tender No. ZETDC/INTER/10/2022 for Supply and Delivery of Circuit Breaker Analyser Test Sets.

Yours faithfully

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

**TENDER NO. ZETDC/INTER/10/2022 FOR SUPPLY AND DELIVERY OF CIRCUIT BREAKER ANALYSER TEST SETS**

**CLARIFICATION NO. 1**

Item	Description	Query from Bidder	ZETDC Response
Page 18 Point No. 5.2.1	The system should be capable of performing Motion/contact travel measurement.	For carrying out this test, accessories like different transducers & fixtures are needed so  Do we need to quote it separately or to be included in supply? Also as per the type of breaker the transducer changes  If it is so then user has to specify Make, range of kV rating of all circuit breakers to be tested.	The system should be capable of performing Motion/contact travel measurement.  Transducers shall be part of the accessories to be provided. The transducers to cater for the following type of circuit breaker; 1. Sf6 Circuit Breakers 11-420kV 2. Vacuum Circuit Breakers 11-36kV 3. Air Circuit Breakers 11-362kV 4. Oil Circuit Breakers 11- 145kV
Page 20 Point No. 5.2.8	The system should be capable of performing Vibration analysis  The test set should be portable & light weight, capable of being lifted by a single person.	Normally this analysis shall require a historical data backup for validation, which no circuit breaker manufacturer has at present & hence is no significance of this test as such.  Is it possible to know that which kV class of breakers will be tested by this Analyser?  From the length of the test leads specified i.e. 9 meters, we suppose the breakers up to 132kV will be tested, so in that case can we offer a single channel DCRM.	The system should be capable of performing vibration analysis - <b>Its Required</b>  Tests to carried out on Circuit Breakers of voltage rating ranging from 11 - 420kV.

**ZETDC H/O PROCUREMENT**  
**26 JUL 2022**

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Page 24 Point No. 5.3	Test set to have wide range of output currents (ac+dc), output voltages as well as measurement options	Can we get more clarity on this, does this mean that test set should have voltage & current sources inbuilt? Or as an external accessory? In that case we require the detailed specifications of these voltage & current sources & their application.	This is clear and OEM should be able to respond. Outputs are internally generated based on inputs to the test equipment and signal processing philosophy in use.
Page 24 Point No. 5.4	Stabilised voltage & current outputs	Can we get more clarity on this, does this mean that test set should have voltage & current sources inbuilt? Or as an external accessory? In that case we require the detailed specifications of these voltage & current sources & their application.	This is clear and OEM should be able to respond. This speaks to the level of noise suppression (filtering of harmonics) on voltage and current outputs.
Page 25 Point No. 7.4.2	Resistance measurement in %	Is this a PIR timing measurement in msec or PIR value in Ohm/k Ohm?	Pre-insertion Resistance (PIR) is measured in Ohms but the measurement accuracy level is the one required under 7.4.2.

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