PROCUREMENT PROCEDURE OF CPRI (NON WORKS)							
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	Section IV T - Tec						
	<u>CENTRAL POWER RESEARCH INSTITUTE.</u>	BENGALURU/E	BHOPAL V	<u>Veb: www.cpri.res.in</u>			
Tender Enquiry No : CPRIBLR23UHVRL27C1151							
Description of	the Equipment/Goods/Services : Coupling Capacitors						
Note : 1) The te	echnical bid submitted in other than this format is liable to be rejected.						
	Is are mandatorily to be filled in.						
Name and address of the bidder							
Quotation Num	iber and Date						
		•		-			
	Technical Specifications/Parameters	Qty		To be completed by the Bidder		der	
Sl.No.				Detials of guaranteed technical parameters offered by the bidder	Guaranteed Technical Particulars (GTP)	Deviations from GTP	
	Coupling capacitor						
1	Equipment: Coupling capacitors for measurement of partial discharge in Power & Distribution transformers						
2	Scope: Design, development, manufacturing, testing, supply, installation and commissioning of Coupling capacitors suitable for measurement of Partial discharges of Power & Distribution Transformers						
3	Coupling Capacitors - 50 kV						
3.1	Rated voltage: 50 kVrms						
3.2	Rated capacitance : ≥ 1 nF @ 50 Hz						
3.3	Number of coupling capacitors : Three numbers	3					
3.4	Duty Cycle: Continuous						
3.5	Frequency of operation : 50 Hz - 200 Hz						
3.6	Dielectric dissipation factor : ≤ 2e-3 @ 50 kVrms						
3.7	Operating Conditions at site : Ambinet temperature: 10°C to 45 °C Relative humidity: 45 % to 80% RH (Non-condensing) Mean height of site above sea level: 542 meters						

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	Technical Specifications/Parameters	Qty	To be completed by the Bidder				
Sl.No.			Detials of guaranteed	Guaranteed Technical	Deviations from GTP		
			technical parameters	Particulars (GTP)			
			offered by the bidder				
3.8	Partial discharge level : less than 2 pC @ 50 kVrms						
	Type of Installations: Mobile, The base of the coupling capacitor shall be isolated						
	with insulators. The same shall be fitted on steel frames with high quality wheels for						
3.9	mobility. High Voltage terminal shall be provided with suitable sized corona rings to						
	aviod the discharges from the connection, if required.						
3.10	Installation: Indoor application						
3.10							
3.11	Type of Materials used for Coupling Capacitor body: FRP or any equivaent material						
4	Coupling Capacitors - 5 kV						
4.1	Rated voltage: 5 kV						
4.2	Rated capacitance : ≥ 1 nF @ 50 Hz						
4.3	Number of coupling capacitors : Three numbers	3					
4.4	Duty Cycle: Continuous						
4.5	Frequency of operation : 50 Hz - 200 Hz						
4.6	Dielectric dissipation factor : ≤ 2e-3 @ 5 kVrms						
4.7	Partial discharge level : less than 2 pC @ 5 kVrms						
4.8	Installation: Indoor application						
	Calibration and type test reports: The coupling capacitors shall be type and routine						
5	tested for following tests as per IEC 60358 standard at any ISO/IEC 17025:2017						
	accrediated laboratory.						
5.1	50 kV Coupling capacitor						
	Type Test : Power frequency voltage withstand test @ 70 kVrms for 1 min						
5.1.1	Routine tests : 1. Capacitance and dielectric dissipation factor at power frequency						
	before and after type tests						
	2. Partial Discharge Measurement and values shall be less than 2 pC at 50 kV rms						
	before and after types tests						
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5.2	5 kV Coupling Capacitor								
5.2.1	Type Test : Power frequency voltage withstand test @ 5 kVrms for 1 min Routine tests : 1. Capacitance and dielectric dissipation factor at power frequency before and after type test 2. Partial Discharge Measurement and values shall be less than 2 pC at 5 kV rms before and after type test								
6	Commissioning and Functional Test : The following commissioning test shall be performed along with other testing and measuring equipment related to transformer testing. 1. Partial discharge measurement shall be demonstarted. Note: The measuring and other testing equipment will be provided by CPRI during the acceptance tests.								
7	Technical information to be provided : The following information shall be included in the bid: 1. Type of the capacitor, Technical characteristics of the capacitor (capacitance, rated voltage, dielectric dissipation factor, Partial discharge level etc), Dimensions (length x width x height) in mm, Mass [kg]. The following documents shall be supplied along with supply. General drawings, Operating manual and maintenance manuals, reports of type and routine tests.								
8	Warranty: The equipment shall be guaranteed for minimum period of 12 months from date of successful demonstration at site.								
literatures, phar 2) Calibration re 3) CPRI reserves rediness of the e	ement of "Complied" do not suffice the requirement. The details of technical parameters nplates, or any other documents shall be submitted in hard copy along with technical bic eports/certificates, factory test reports/certificates from an laboratory accreditated as per s the rights to conduct "predispatch inspection" prior to dispatch at the works of the sup equipment/machinary for the PDI shall be communicated in writing at lease 60 days in a s quoated in the tender document are to be considered only latest editions/versions.	l. er ISO/IEC 17025:2017 /faci plier and the expenditure to	lites shall be submitted w	herever applicable.	-				