

PROCUREMENT PROCEDURE OF CPRI (NON WORKS)

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 Topic : Technical Specifications format

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Section IV T -Technical Specification

CENTRAL POWER RESEARCH INSTITUTE, BENGALURU/BHOPAL Web: www.cpri.in, www.tenderwizard.com/CPRI

Tender Enquiry No : CPRI/BLR/21CDD095775

Description of the Equipment/Goods/Services : 100 kV Break Down Tester (DC Bipolar)

Note : 1) The technical bid submitted in other than this format is liable to be rejected.

2) All blue fields are mandatorily to be filled in.

Name and address of the bidder

Quotation Number and Date

Sl.No.	Technical Specifications/Parameters	Qty	To be completed by the Bidder		
			Details of guaranteed technical parameters offered by the bidder	Guaranteed Technical Particulars (GTP)	Deviations from GTP
1	Place where equipment /service to be supplied /provided: Insulation Laboratory - Cables & Diagnostic Division, Central Power Research Institute, Bangalore.				
2	Scope: Design, fabrication, supply, installation, commissioning and training of a 100 kV (bipolar DC) breakdown voltage tester	1 number			
Design, fabrication, supply, installation, commissioning and training of a 100 kV (bipolar DC) breakdown voltage tester	HV source: Shall be provided with suitable Control panel, Voltage regulator, HT unit, DC extension Unit etc for the smooth control/operation fulfilling following technical specifications. Technical Specification: a) Operating Voltage - 230V ± 5% AC 50 HZ. b) Output Voltage - 0 -100kV DC Bipolar (+Ve/-Ve) selectable and continuously variable, 100 mA current rating. Accuracy: 2%. c) Monitor - 3 ½ digit DPMs for output voltage and load currents d) Resolution - 0.1 kV e) Regulation - ± /- 5% f) Rectifier unit: 100 kV g) Smoothing capacitor: 100 kV, ripple <= 2% h) Measuring resistor 100 kV Rated Voltage - 100 kV (bipolar DC) 100 mA, Duty cycle 1 hour on ,10 mins off Arrangement to be provided for connecting to available test electrodes in lab of 25 mm diameter and 25 mm height cylindrical electrodes in transformer oil bath. Controls and Monitors: a) ON/OFF with indication. b) HT - ON/OFF with indication. c) Increase / Decrease Push buttons for test voltage. d) ON/OFF Lock for test voltage. e) Over load trip with indication. f) Emergency OFF switch to be provided Control panel with earthing switch g) Manual earth rod for earthing h) Units should be mounted on platform with nylon wheels for easy movement i) 3 ½ digit DPMs for input voltage, output voltage (DC Bipolar) and current through test sample.	1 number			
Design, fabrication, supply, installation, commissioning and training of a 100 kV (bipolar DC) breakdown voltage tester	i) Test area door interlock with HT-ON shall be provided. j) All the interconnecting cables shall be provided with proper connectors. k) Calibration certificate traceable to NABL to be provided Accessories to be supplied along with the instrument. Warranty: 12 months from the date of installation and commissioning. Supply, Installation, Commissioning and training to be given at Insulation Lab, CPRI.	1 number			

PN: 1) Mere statement of "Complied" do not suffice the requirement. The details of technical parameters in proof of CPRI requirements shall be furnished along with technical write-up, catalogues, brochures, literatures, pamphlets, or any other documents shall be submitted in hard copy along with technical bid.  
 2) Calibration reports/certificates, factory test reports/certificates from an accredited agencies/facilities shall be submitted wherever applicable.  
 3) CPRI reserves the right to conduct "predispatch inspection" prior to dispatch at the works of the supplier and the expenditure towards PDI shall be borne by CPRI. However information regarding the rediness of the equipment/machinery for the PDI shall be communicated in writing at lease 70 days in advance.