

TECHNICAL SPECIFICATIONS OF 500V/1000V DC ANALOG TYPE OF INSULATION RESISTANCE TESTERS WITH CONTINUITY CHECK

Sl. No.	Description	Vendor Compliance/Remarks
1	The test set should be fully automatic and suitable for finding out the Insulation resistance of Power Transformer's Coils between conductor to conductors (up to 315 MVA, 220/400 kV Class)	
2	The test set should be able to give direct readings of Insulation resistance of the test object automatically on analogue scale without any bridge balancing method involved.	
3	The test set should be able to take the measurements automatically and should indicate Insulation Resistance Value at analog scale with following features <ul style="list-style-type: none"> • provision of continuity check • Drop proof – To withstand a 1 meter drop on to a concrete floor. 	
4	Input Supply: Hand driven / Battery operated (LR6 alkaline type) Battery life 10.00 Hrs at continuous testing at 500V at any load.	
5	The test set should be able to operate in an environment of temperature as Operating Temperature : 0 to 40°C Storage Temperature : 0 to 50°C	
6	Output Voltage Range: 250V, 500V, 1000V DC, User selectable Voltage Accuracy: (±) 3.0 % voltage at any load. Rated Current : 1.0 mA	
7	Insulation Resistance Range:100 kΩ ---100MΩ @ 500V :100 kΩ ---2000MΩ @1000V Accuracy :(±) 5.0 % rdg (from 1MΩ to 100MΩ) or better	
8	Overload protection: 1.2 times of rated voltage	
9	The test kit shall meet all the relevant international safety specifications	
10	Main equipment with following... <ul style="list-style-type: none"> • Detachable leads High voltage lead, Low voltage lead, Earthing Lead. (minimum 1.2 meter lead set with large Insulated clips) • Tough Carrying case for meter along with test leads and accessories. 	
11	Additional Accessories along with Each Meter 01 set of Detachable leads High voltage lead, Low voltage lead, Earthing Lead. (minimum 1.2 meter lead set, with large Insulated clips)	

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12	Two sets of operating and maintenance manuals in English language. Original technical catalog to be included along with technical bid.	
13	Three sets of calibration reports with following data Calibration date, periodicity, calibration validity duration & next calibration due date. At least 20 sample calibration results of which minimum 5 results at 1000V voltage range with different Insulation resistance value. Traceability details of standard used for calibration. All documents should be endorsed by authorized signature.	
14	Installation/Commissioning/Acceptance: Installation/Commissioning of the instrument to be done at BHEL Jhansi works by supplier's representative free of charge. Demonstration of all features of offered 500V/1000V Analog Type Insulation Tester & all accessories to satisfaction of BHEL for their efficient and effective use. Instrument shall be accepted only after successful calibration at our end.	
15	Spares: All types of spares of 500V/1000V Analog Type Insulation Tester and its accessories should be available at least five years for trouble free operation to be included after supply of the instrument. The vendor shall provide list of spares and drawing of parts/details of spares. Supplier should also provide any other attachment /accessories required for smooth functioning of the instrument.	
16	Performance & Warranty Certificate: The Supplier shall guarantee the product performance for 24 months from the date of successfully commissioning at our works and shall provide spares and services during guarantee period to maintain the offered meter in working condition.	
17	Live Demonstration: Live demonstration of offered meter is to be given by supplier at BHEL Jhansi works if same is asked during technical evaluation. No additional charge will be applicable for live demonstration.	

Note:

Supplier should submit point wise technical compliance/comments against each of the above points in above format. Technical bid without complete technical compliance sheet will not be considered for technical evaluation.

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