

ANNEXURE TO PI- 140661051

3

3.38. 10 kV Motorized Insulation Tester

SI No	Parameters	Specifications
1	Functional Requirement	Automatic Insulation test, Insulation Resistance, Polarisation Index, Dielectric Absorption Ratio etc. Automatic voltage and time setting through software.
2	Requirements	To operate in extreme environment condition. Suitable for extraneous conditions in 400KV switchyard under heavy induction Noise rejection and high level of filtering. High quality design & easy availability of spares.
3	Test Type	Timed IR, PI, DAR, SV, Dielectric discharge, Ramping etc.
4	Display	Digital display/ Large colour backlit LCD high resolution graphical display on laptop / Front Panel. Graphical representation of leakage current and capacitance. Data analysis for comparison with old results and manufacturer's data.
5	Laptop Specs	Min Specs will be as 500GB HDD, 4 GB RAM, Windows 8 64 Bit, Core i3, USB - 2 Nos, Ethernet, 14" display, antivirus software.
6	Memory	More than 10000 Results Data-storage
7	Printout	On-site printout with USB printer / Inbuilt Printer
8	Temperature Correction	Temperature correction as per relevant IEC.

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9	Test	Executes all the test modes automatically
10	Voltage & time Setting	Fully Automatic through software
11	Analysis Software	Windows based analysis software
12	Protections & Safety Features	1.Open Ground Protection 2. Over Current Protection
13	Measurement Parameters	
	Voltage Measurement	Range : 0 - 10 KV Resolution : 1.0 V Accuracy : $\pm 1\% \pm 1$ digit
	Leakage Current	Range : 0 - 200 mA
	Capacitance	Range: 1 pF to 1 μ F
	Insulation Resistance	Max Reading: 30 T Ω Min Reading : 10 K Ω Accuracy : $\pm 1.0\%$ of the reading $\pm 0.05\%$

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19	Essential Accessories	1. Calibrator Box with accessories 2. Cables: HV Cable-20Meter, Ground Cable, Interconnecting cables 3. Temperature & Humidity Meter. 4. Carrying Cases: Foam Padded Carrying Cases for Bridge & Power supply, Carry Bag for Cables 5. Laptop with accessories supplied 6. Windows based software CD 7. Operational Manual CD 8. Traceable calibration certificate
20	Type Testing	The test kit shall be type tested for Environmental Tests, EMI-EMC & Safety Tests as per relevant IEC Standard. The type test report form NABL accredited lab should be submitted alongwith the offer.
	Warranty / Guarantee	36 months from the date of successful & complete commissioning at Employer Sites.
21		All the materials, including accessories, cables, laptops (wherever supplied) etc. are to be covered under warranty/ guarantee period. If the kit needs to be shifted to supplier's works for repairs within warranty/guaranty period, suppliers will have to bear the cost of repairs, spares and transportation of kit for repair at service center/works.
22	Calibration certificate	Unit shall be duly calibrated before supply and the date of calibration shall not be older than two months from the date of inspection/supply of the kit.

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23	Training	Supplier shall have to ensure that the kit is made user friendly. Apart from detailed demonstration at site, the supplier shall also have to arrange necessary training to Employer's engineers.
24	Commissioning, Handing over the Instrument	Successful bidder will have to commission the instrument at Employer's selected cite and to the full satisfaction of Employer.
25	After Sales Service	Bidder will have to submit the documentary evidence of having established mechanism in India for prompt services.


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