

Laboratory Meter Testing Laboratory, UHBVN, Dhulkote, Ambala City, Haryana
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number TC-7165 **Page 1 of 2**
Validity 13.04.2018 to 12.04.2020 **Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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ELECTRICAL TESTING

I.	MEASURING INSTRUMENTS - ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERS			
1.	Energy Meter	Insulation Resistance	IS 13779 Clause No 12.7.6.4 IS 14697 Clause No 12.7.6.4	500 V 1 MΩ to 50 K MΩ
		AC High Voltage	IS 13779, Clause No. 12.7.6.3 & IS 14697 Clause No 12.7.6.3	0 to 5 kV
		Limits of Error	IS 13779 Clause No. 11.1 IS 14697 Clause No 11.1	30 V to 300 V (P-N), 1 mA to 120 A, 47.5 Hz to 52.5 Hz, P.F–UPF to +UPF
		Meter Constant	IS 13779 Clause No 11.6, 12.15 IS 14697 Clause No. 11.6, 12.14	30 V to 300 V (P-N), 1 mA to 120 A, 47.5 Hz to 52.5 Hz, P.F–UPF to +UPF
		Starting condition	IS 13779 Clause No. 11.5, 12.14 IS 14697 Clause No. 11.5, 12.13	30 V to 300 V (P-N), 1 mA to 120 A, 47.5 Hz to 52.5 Hz, P.F–UPF to +UPF
		No Load condition	IS 13779 Clause No 11.4 , 12.13 IS 14697 Clause No 11.4, 12.12	30 V to 300 V (P-N), 1 mA to 120 A, 47.5 Hz to 52.5 Hz, P.F–UPF to +UPF
		Repeatability of Error	IS 13779 Clause No. 11.7, 12.17 IS 14697 Clause No. 11.7 , 12.16	30 V to 300 V (P-N), 1 mA to 120 A, 47.5 Hz to 52.5 Hz, P.F–UPF to +UPF
		Power Consumption	IS 13779 Clause No. 9.1.1 & 9.1.2 IS 14697 Clause No. 9.1.1 & 9.1.2	30 V to 300 V (P-N), 1 mA to 120 A, 47.5 Hz to 52.5 Hz, P.F–UPF to +UPF

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II.	TRANSMISSION LINE EQUIPMENT AND ACCESSORIES			
1.	Current Transformer	Test of Ratio Error	IS 2705 (Part 2) Clause No. 3.3.1 & 3.3.3	0 to 2.5 for LTCT with accuracy class 0.5 0 to 2.5 for HTCT with accuracy class 0.5S 5/5Amp to 100/5 Amp
		Test of Phase Error	IS 2705 (Part 2) Clause No. 3.3.1 & 3.3.3	0 to 100 for LTCT with accuracy class 0.5 0 to 100 for HTCT with accuracy class 0.5S 5/5Amp to 100/5 Amp
2.	Potential Transformer	Test of Ratio error	IS 3156 (Part 2) Clause No. 5.1	0 to 2.5 with accuracy class 0.5 for PT rated as 11 KV / 110 V
		Test of Phase Error	IS 3156 (Part 2) Clause No. 5.1	0 to 100 with accuracy class 0.5 for PT rated as 11 KV / 110 V