

**Laboratory** Meter Testing Laboratory, DHBVN, Sarhaul More, Sector 18, Gurgaon, Haryana

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5337 (In lieu of T-2054)

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**Validity** 13.01.2017 to 12.01.2019

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.	<b>MEASURING INSTRUMENTS - ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERS</b>			
1.	<b>Energy Meters</b>	AC High voltage test	IS 13779 : 1999 Upto Amendment 5 Clause no 12.7.6.3 IS 14697 :1999 Upto Amendment 3 Clause no 12.7.6.3	Upto 5 kV, 50Hz
		Insulation resistance test	IS 13779 : 1999 Upto Amendment 5 Clause no 12.7.6.4 IS 14697 :1999 Upto Amendment 3 Clause no 12.7.6.4	500 V Upto 50 MΩ
		Limits of Error	IS 13779 : 1999 Upto Amendment 5 Clause no 11.1 IS 14697 :1999 Upto Amendment 3 Clause no 11.1	Upto 320V (P-N) 1mA to 120A 45Hz to 55Hz P.F- UPF to +UPF
		Meter constant	IS 13779 : 1999 Upto Amendment 5 Clause no 11.6 , 12.15 IS 14697 :1999 Upto Amendment 3 Clause no 11.6, 12.14	30V to 300V (P-N) 1mA to 120A 45Hz to 55Hz P.F- UPF to +UPF
		Starting condition	IS 13779 : 1999 Upto Amendment 5 Clause no 11.5 , 12.14 IS 14697 :1999 Upto Amendment 3 Clause no 11.5, 12.13	30 V to 300 V (P-N) 1 mA to 120 A 45 Hz to 55 Hz P.F- UPF to +UPF

**Neeraj Verma**  
Convenor

**N. Venkateswaran**  
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		No Load condition	IS 13779 : 1999 Upto Amendment 5 Clause no 11.4 , 12.13 IS 14697 :1999 Upto Amendment 3 Clause no 11.4, 12.12	30 V to 300 V (P-N) 45 Hz to 55 Hz P.F- UPF to +UPF
		Repeatability of Error	IS 13779 : 1999 Upto Amendment 5 Clause no 11.7 , 12.17 IS 14697 :1999 Upto Amendment 3 Clause no 11.7 , 12.16	30 V to 300 V (P-N) 1 mA to 120 A 45 Hz to 55 Hz P.F- UPF to +UPF
		Power Consumption	IS 13779 : 1999 Upto Amendment 5 Clause no 9.1 IS 14697 :1999 Upto Amendment 3 Clause no 9.1	30 V to 300 V (P-N) 1 mA to 120 A 45 Hz to 55 Hz P.F- UPF to +UPF
2.	<b>Current Transformer</b>	Ratio Error	IS 2705:1992 Upto Amendment 4 Part -2 Clause no 3.3.1 & 3.3.3	5/5 A to 800/5 A
		Phase Error	IS 2705:1992 Upto Amendment 4 Part -2 Clause no 3.3.1 & 3.3.3	5/5 A to 800/5 A
3.	<b>Potential Transformer</b>	Ratio Error	IS 3156:1992 Upto Amendment 4 Part -2, Clause no 5.1	11kV / 110V
		Phase Error	IS 3156:1992 Upto Amendment 4 Part -2, Clause no 5.1	11kV / 110V

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