

Laboratory	Energy Meter Testing Laboratory, Shanthala Power Limited, Plot No. 09, Krishna Vihar, Nanta Road, Kota, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electrical Testing	Issue Date	19.05.2014
Certificate Number	T-2092	Valid Until	18.05.2016
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S.No.	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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I. ELECTRICAL INDICATING & RECORDING INSTRUMENTS

1.	AC Static Watt- Hour Meters Class-1 & 2	Insulation Resistance Test	Clause 12.7.6.4 of IS 13779: 1999, RA 2009	500 V DC 0.05 to 100 MΩ
		AC Voltage Test	Clause 12.7.6.3 of IS 13779: 1999, RA 2009	0.1kV to 5 kV
		Limits of error test	Clause 11.1 of IS 13779:1999 Table No. 15, RA 2009	Voltage: Upto 300V Current: 100 A PF: 0.5 lag to UPF
		Test of Starting Condition	Clause 11.5 of IS 13779:1999 Table No. 19, RA 2009	0.01 mA to 50mA
		Meter Constant test	Clause 11.6 of IS 13779:1999, RA 2009	Voltage: Upto 300V Current: 100 A UPF
		Test of No- Load Condition	Clause 12.13 of IS 13779:1999, RA 2009	50 V to 500 V
		Physical inspection of LCD display	Clause 6.10 of IS 13779:1999, RA 2009	Visual Inspection

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	AC Static Watt-Hour Meters Class-1 & 2*	Limit of error Test/ Test of accuracy requirement	IS 15707: 2006, RA 2011	10V to 240 V 500 mA to 60 A (Clamp on CT) 200 mA to 10 A (with ring CT) 50 Hz with power Factor ±0.5 to UPF 3X63.5 V, 0.1 to 5 A 50 Hz with power Factor ±0.5 to UPF

-X-X-X-X-X-X-X-X-X-X-X-X-

*Only for Site Testing.