Laboratory Shanthala Power Limited, Energy Meters Testing Laboratory,

Plot No. 18/2, Belligati Village, Post:Niralagi, TQ:Kundagol,

Dist:Dharwad, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7790 Page 1 of 3

Validity 30.08.2018 to 29.08.2020 Last Amended on --

SI.		Specific Test Performed	Test Method Specification	•
	of Test		against which tests are	Limits of Detection
			performed	

ELECTRICAL TESTING

I.	ELECTICAL INDIC	ATING & RECORDING INSTR	RUMENTS	
1.	AC Static Watt- hour Meters Class-1 & 2	Insulation Resistance test	IS 13779:1999 (RA 2015) IEC 61036:2000 Clause 12.7.6.4	500 ± 50V dc, >5MΩ
	1 Φ Meters	AC Voltage Test	IS 13779:1999 (RA 2015) IEC 61036:2000 Clause 12.7.6.3	0.1 kV to 5 kV
		Limits of Error Test	IS 13779:1999 (RA 2015) IEC 61036:2000 Clause 11.1 of Table No.:15	Voltage:Up to 64 V Current:0.25 A to 60 A PF:0.1 lag to UPF 0.1 lead to UPF
		Test of Starting condition	IS 13779:1999 (RA 2015) IEC 61036:2000 Clause 12.14 (11.5- Table No.:19)	1 mA to 200 A 1 V to 240 V
		Meter Constant Test	IS 13779:1999 (RA 2015) IEC 61036:2000 Clause 12.15 (11.6)	Voltage:Up to 64 V Current:60 A PF:0.1 lag to UPF 0.1 lead to UPF
		Test of No-load condition	IS 13779:1999 (RA 2015) IEC 61036:2000 Clause 12.13	Upto 285 V 1Ф
		Power Consumption test	IS 13779:1999 (RA 2015) IEC 61036:2000 Clause 12.7.1	Active power 1.5 W to 8 vA Apparent power 4.0 vA (CI-I) 2.5 vA (CI-II)

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Repeatability of Error	IS 13779:1999 (RA 2015) IEC 61036:2000 Clause 12.17	Voltage:Up to 64V Current:0.25 A to 64 A PF:0.1 lag to UPF 0.1 lead to UPF

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	SI.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
		of Test		against which tests are	Limits of Detection
١				performed	

ELECTRICAL TESTING

AT	SITE			
I.	ELECTICAL INDIC	ATING & RECORDING IN	STRUMENTS	
1.	AC Static Watt- hour Meters	Limits of Error Test/ Accuracy Test	IS 15707:2006 Clause 12.3.2	30 V to 480 V 0.04 Amp to 12 Amp 45 Hz to 65 Hz, Class:0.05s Direct mode 30 V to 480 V 0.5 Amp to 100 Amp 45 Hz to 65 Hz Class:0.2s with Clamp