

Laboratory	Testing & Calibration Laboratory, CTC, DVC, Maithon Central Testing Circle, Damodar Valley Corporation, Goswami Bhaban, P.O.Maithon Dam, Dist. Dhanbad, Jharkhand		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electrical Testing	Issue Date	04.07.2014
Certificate Number	T-3034	Valid Until	03.07.2016
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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. MEASURING INSTRUMENTS – ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERS

a) AC Static Watthour meters, Cl.1.0 & 2.0 & AC Static Transformer operated Watthour and VARhour meters, Cl.0.2S & 0.5S & Static meters for Active Energy Cl. 1.0 & 2.0, & Static meters for Active Energy Cl. 0.2S & 0.5D, & Static meters for Reactive Energy, Cl. 2.0 & 3.0	Test on Limits of Error	(IS 13779:1999) (IS14697:1999) (IEC62052-11) (IEC62053-21) (IEC62053-22) (IEC62053-23) IS-14697:1999 (RA 2004) Cl 11.11 IS-13779:1999 (RA 2002) Cl 11.11 IEC 62053-21,22 & 23(2003) Cl.8.1	0.01 VA to 38400 VA 40 to 320 V (P-N) 1 mA to 120 A 50Hz P.F : 0.5 Lag ≤ 1 ≥ 0.8 Lead
	Test of Start Up & Starting Current	IS-14697:1999 (RA 2004) Cl 11.4.1,11.5,12.13 IS-13779:1999 (RA 2002) Cl.12.14 IEC 62053-21, 22 & 23(2003) Cl. 8.3.1, 8.3.3	0.01 VA to 38400 VA 40 to 320 V (P-N) 1 mA to 120 A 50Hz P.F : 0.5 Lag ≤ 1 ≥ 0.8 Lead
	Test of No Load Condition	IS-14697:1999 (RA 2004) Cl 11.4.2,12.12 IS-13779:1999 (RA 2002) Cl,12.13 IEC 62053-21, 22 & 23(2003) Cl. 8.3.2	0.01 VA to 38400 VA 40 to 320 V (P-N) 1 mA to 120 A 50Hz P.F : 0.5 Lag ≤ 1 ≥ 0.8 Lead

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	AC Static Watthour meters, Cl.1.0 & 2.0 & AC Static Transformer operated Watthour and VARhour meters, Cl.0.2S & 0.5S & Static meters for Active Energy Cl. 1.0 & 2.0, & Static meters for Active Energy Cl. 0.2S & 0.5D, & Static meters for Reactive Energy, Cl. 2.0 & 3.	Test of Repeatability of Error	IS-14697:1999 (RA 2004) Cl 11.7,12.16 IS-13779:1999 (RA 2002) Cl .12.17	0.01VA to 38400VA 40 to 320 V (P-N) 1 mA to 120 A 50Hz P.F : 0.5 Lag ≤ 1 ≥ 0.8 Lead
		AC High Voltage Test	IS-14697:1999 (RA 2004) Cl 12.7.6.3 IS-13779:1999 (RA 2002) Cl 12.7.1 IEC 62053-21, 22, & 23(2003) Cl.7.4	Upto 5 kV 1 sec to 120 sec
		Insulation Resistance Test	IS-14697:1999 (RA 2004) Cl 12.7.6.4 IS-13779:1999 (RA 2002) Cl 12.7.6.4	1 MΩ to 100 MΩ at 500±50 V DC
		Test of Power Consumption	IS-14697 :1999(RA 2004) Cl 12.7.1 IS-13779:1999 (RA 2002) Cl 12.7.6.3 IEC 62053-21, 22 & 23(2003) Cl.7.1	0.01 W to 10 W 0.01 VA to 20 VA
		Test of Meter Constant	IS-14697:1999 (RA 2004) Cl.12.14 IS-13779:1999 (RA 2002) Cl.12.15 IEC 62053-21, 22 & 23(2003) Cl. 8.4	0.01 VA to 38400 VA 40 to 320 V (P-N) 1 mA to 120 A 50Hz P.F : 0.5 Lag ≤ 1 ≥ 0.8 Lead

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