

Laboratory Testing & Calibration Laboratory, CTC, DVC, Maithon, Goswami Bhawan, Area No. 6, P.O. Maithon Dam, Dist. Dhanbad, Jharkhand

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7542 (in lieu of T-3034)

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Validity 25.07.2018 to 24.07.2020

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.	<b>MEASURING INSTRUMENTS - ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERS</b>			
1.	ac Static Watt-hour meters (Class 1 & Class 2)	Limits of Error	IS 14697 Cl. 11.1 IS 13779 Cl. 11.1 IEC 62053-21 Cl. 8.1 IEC 62053-22 Cl. 8.1 IEC 62053-23 Cl. 8.1	63.5 V to 240 V (P-N) 1 mA to 120 A 50 Hz P.F- 0.5 lag-UPF-0.8 lead
	ac Static Transformer operated Watt-hour and VAR hour meters (Class 0.2s, Class 0.5s & Class 1s)	Starting Current	IS 14697 Cl. 11.4.1, 11.5, 12.13 IS 13779 Cl. 12.14 IEC 62053-21 Cl. 8.3.1 & 8.3.3 IEC 62053-22 Cl. 8.3.1 & 8.3.3 IEC 62053-23 Cl. 8.3.1 & 8.3.3	63.5 V to 240 V (P-N) 0.1 % lb to 0.4 % lb
	Static meters for Active Energy (Class 1, Class 2, Class 0.2s and Class 0.5s)	No Load Condition	IS 14697 Cl. 11.4, 12.12 IS 13779 Cl. 12.13 IEC 62053-21 Cl. 8.3.2 IEC 62053-22 Cl. 8.3.2 IEC 62053-23 Cl. 8.3.2	63.5 V to 240 V (P-N) 50 Hz
	Static meters for Reactive Energy (Class 2 & Class 3)	Repeatability of Error	IS 14697 Cl. 11.7, 12.16 IS 13779 Cl. 12.17	63.5 V to 240 V (P-N) 1 mA to 120 A 50 Hz P.F- 0.5 lag-UPF-0.8 lead
		ac High Voltage	IS 14697 Cl. 12.7.6.3 IS 13779 Cl. 12.7.1 IEC 62053-21 Cl. 7.4 IEC 62053-22 Cl. 7.4 IEC 62053-23 Cl. 7.4 IS/IEC 60060-2 IS/IEC 60060-3	Upto 5 kV 1 s to 60 s

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		Insulation Resistance	IS 14697 Cl. 12.7.6.4 IS 13779 Cl. 12.7.6.4	1 MΩ to 2000 MΩ at 500+50 V DC
		Power Consumption	IS 14697 Cl. 12.7.1 IS 13779 Cl. 12.7.6.3 IEC 62053-21 Cl. 7.1 IEC 62053-22 Cl. 7.1 IEC 62053-23 Cl. 7.1	Voltage Circuit: 0.303 mW to 2 W 19 mVA to 10 VA Current Circuit: 30 mVA to 4 VA
		Meter Constant	IS 14697 Cl. 12.14 IS 13779 Cl. 12.15 IEC 62053-21 Cl. 8.4 IEC 62053-22 Cl. 8.4 IEC 62053-23 Cl. 8.4	63.5 V to 240 V (P-N) 1 mA to 120 A 50 Hz P.F- 0.5 lag-UPF-0.8 lead

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