

Laboratory	CESC Testing Laboratory, Testing Department, CESC Limited, 4 Sashi Sekhar Bose Row, Kolkata, West Bengal		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electrical Testing	Issue Date	04.10.2014
Certificate Number	T-1463	Valid Until	03.10.2016
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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
	Meters Class 0.5, 1 & 2 (IS 13010) Standardization of AC Static Electrical Energy Meters (CBIP 304) Static Meters for Active Energy Class 1 & 2 (IEC 62053-21) Class 0.2S & 0.5S (IEC 62053-22) Static Meters for Reactive Energy Class 2 & 3 (IEC 62053-23)		IEC 62053-22:2003 (Cl.8.1 & 8.5) IEC 62053-23:2003 (Cl.8.1 & 8.5)	45 V to 320 V, 50 Hz, P.F. 0 LEAD-UPF- 0 LAG- UPF Active: 0.02 A to 100 A Reactive:0.02 A to 100A
3.	AC Static Watthour Meters Class 1 & 2 (IS 13779) AC Static CT Operated Watthour and Var-hour Meters Class 0.2S, 0.5S & 1S (IS 14697) AC Watthour Meters Class 0.5, 1 & 2 (IS 13010) Standardization of AC Static	Test of Starting condition	IS 13779 :1999 upto Amd 4 (Cl. 11.5 & 12.14) IS 14697 :1999 upto Amd 3 (Cl. 11.5 & 12.13) IS 13010 :2002 upto Amd 1 (Cl. 11.4) CBIP-304 : 2008 (Cl. 5.6.5 & 4.6.5.3) IEC 62053-11:2003 IEC 62053-21:2003 (Cl. 8.3.3) IEC 62053-22:2003 (Cl. 8.3.3) IEC 62053-23:2003 (Cl. 8.3.3)	45 V to 320 V

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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
	Electrical Energy Meters (CBIP 304) Static Meters for Active Energy Class 1 & 2 (IEC 62053-21) Class 0.2S & 0.5S (IEC 62053-22) Static Meters for Reactive Energy Class 2 & 3 (IEC 62053-23)	Test of no Load condition	IS 13779 :1999 upto Amd 4 (Cl. 11.4.2 & 12.13) IS 14697 :1999 upto Amd 3 (Cl. 11.4.2 & 12.12) IS 13010 :2002 upto Amd 1 (Cl. 11.3) CBIP-304 : 2008 (Cl. 5.6.4 & 4.6.9.2) IEC 62053-11:2003 IEC 62053-21:2003 (Cl. 8.3.2) IEC 62053-22:2003 (Cl. 8.3.2) IEC 62053-23:2003 (Cl. 8.3.2)	45 V to 320 V, 50 Hz
		Test of power consumption	IS 13779 :1999 upto Amd 4 (Cl. 9.1.1.9, 9.1.2 & 12.7.1) IS 14697 :1999 upto Amd 3 (Cl. 9.1.1 & 9.1.2) IS 13010 :2002 upto Amd 1 [Cl. 11.8 (a) & (b)] CBIP-304 : 2008 (Cl. 4.4.1) IEC 62053-11:2003 IEC 62053-21:2003 (Cl. 7.1) IEC 62053-22:2003 (Cl. 7.1)	45 V to 320 V , > 10mA

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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
4.	AC Static Watthour Meters Class 1 & 2 (IS 13779) AC Static CT Operated Watthour and Var-hour Meters Class 0.2S, 0.5S & 1S (IS 14697) AC Watthour Meters Class 0.5, 1 & 2 (IS 13010) Standardization of AC Static Electrical Energy Meters (CBIP 304) Static Meters for Active Energy Class 1 & 2 (IEC 62053-21) Class 0.2S & 0.5S (IEC 62053-22) Static Meters for Reactive Energy Class 2 & 3 (IEC 62053-23)	Test of Meter constant	IS 13779 :1999 upto Amd 4 (Cl. 11.6 & 12.15) IS 14697 :1999 upto Amd 3 (Cl. 11.6 & 12.14) IS 13010 :2002 upto Amd 1 (Cl. 11.6) CBIP-304 : 2008 (Cl. 5.6.6 & 4.6.10) IEC 62053-11:2003 IEC 62053-21:2003 (Cl. 8.4) IEC 62053-22:2003 (Cl. 8.4) IEC 62053-23:2003 (Cl. 8.4)	45 V to 320 V, 50 Hz, P.F. 0 LEAD-UPF- 0 LAG- UPF Active: 0.02 A to 100 A Reactive:0.02 A to100 A 45 V to 320 V, 50 Hz, P.F. 0 LEAD-UPF- 0 LAG- UPF Active: 0.02 A to 100 A Reactive:0.02 A to100 A

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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
5.	Current Transformers Class 0.1, 0.2, 0.5 & 1	Test of Polarity, Test of ratio error & phase error	IS 2705:1992 (Part 2) (C.1 3.3.1)	Upto 2000 A
6.	Voltage Transformers Class 0.1, 0.2, 0.5, 1.0 & 3	Test of Polarity, Test of ratio error & phase error	IS 3156:1992 (Part 2) (Cl. 5.1)	Upto 33kV

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