

Laboratory	Testing and Calibration Laboratory, Secure Meters Limited, Village Bated, Haripur Road Barotiwala, Distt. Solan, Himachal Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electrical Testing	Issue Date	24.07.2015
Certificate Number	T-1260	Valid Until	23.07.2017
Last Amended on	-	Page	1 of 4

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	MEASURING INSTRUMENTS-ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERS			
1.	Electrical Energy Meters	AC Voltage	CBIP 304 (July 2008) IS 13779: 1999 IS 14697: 1999 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 IS 15884: 2010	Upto 5 kV
		Insulation Resistance	CBIP 304 (July 2008) IS 13779 :1999 IS 14697 :1999 IS 15884: 2010	Upto 200 MΩ, 500 VDC
		Limits of Errors	CBIP 304 (July 2008) IS 13779: 1999 IS 14697: 1999 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 IS 15884: 2010	Single Phase: Active 0.20 Wh to 38.4 kWh Reactive: 0.20 VArh to 38.4 kVArh Three Phase: Active 0.60 Wh to 115.2 kWh Reactive 0.60 VArh to 115.2 kVArh 40 V to 320 V 5 mA to 120 A

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Last Amended on	-	Page	2 of 4

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	Meter Constant	CBIP 304 (July 2008) IS 13779: 1999 IS 14697: 1999 IEC62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 IS 15884: 2010	Single Phase: Active 0.20 Wh to 38.4 kWh Reactive: 0.20 VARh to 38.4kVARh Three Phase: Active 0.60 Wh to 115.2 kWh Reactive 0.60 VARh to 115.2 kVARh 40 V to 320 V 5 mA to 120 A
		Starting Conditions	CBIP 304 (July 2008) IS 13779: 1999 IS 14697: 1999 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 IS 15884: 2010	40 V to 320 V 1 mA to 120 A
		No Load Condition	CBIP 304 (July 2008) IS 13779 :1999 IS 14697: 1999 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 IS 15884: 2010	40 V to 320 V AC

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Certificate Number T-1260 **Valid Until** 23.07.2017

Last Amended on - **Page** 3 of 4

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	Repeatability of Errors Test	CBIP 304 (July 2008) IS 13779: 1999 IS 14697: 1999 IS 15884: 2010 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 IS 15884: 2010	Single Phase: Active 0.20 Wh to 38.4 kWh Reactive: 0.20 VARh to 38.4kVARh Three Phase: Active 0.60 Wh to 115.2 kWh Reactive 0.60 VARh to 115.2 kVARh 40 V to 320 V 5 mA to 120 A
		Test of Influence Quantities Voltage Variation Frequency Variation Reverse Phase Sequence Voltage Unbalance	CBIP 304 (July 2008) IS 13779: 1999 IS 14697: 1999 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 IEC 62053-23: 2003 IS 15884: 2010	Single Phase: Active 0.20 Wh to 38.4 kWh Reactive: 0.20 VARh to 38.4kVARh Three Phase: Active 0.60 Wh to 115.2 kWh Reactive 0.60 VARh to 115.2 kVARh 40 V to 320 V 5 mA to 120 A 40 Hz to 70 Hz

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Last Amended on - **Page** 4 of 4

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	Electrical Energy Meters	Test of Power Consumption	CBIP 304 (July 2008) IS 13779: 1999 IS 14697: 1999 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 IS 15884: 2010	Single Phase: (0.02 W to 10 W) 0.04 VA to 20 VA 40 V to 320 V , 1 mA to 120 A

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