

**Laboratory** Testing and Calibration Laboratory, Secure Meters Limited, RIICO Bhamashah Industrial Area, Kaladwas, Udaipur, Rajasthan

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-7260 (in lieu of T-1075) **Page 1 of 4**

**Validity** 30.06.2018 to 29.06.2020 **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
-----	----------------------------	-------------------------	-------------------------------------------------------------	----------------------------------------

**ELECTRICAL TESTING**

I.	<b>MEASURING INSTRUMENTS - ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERS</b>			
1.	<b>Electrical Energy Meters</b>	AC Voltage Test	CBIP-325: 2015 IS13779: 1999 Amend. 1 to 5 IS14697: 1999 Amend. 1 to 4 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 NMI M 6-1: 2011 AS 62052-11: 2005 AS 62053-21: 2005 AS 62053-22: 2005 IS 15884: 2010 IS 16444: 2015	Upto 5 kV
		Insulation Resistance Test	CBIP-325: 2015 IS13779: 1999 Amend. 1 to 5 IS14697: 1999 Amend. 1 to 4 IS 15884: 2010 IS 16444: 2015	Test Upto 200 MΩ, Test Voltage: 500 VDC
		Limits of Errors	CBIP-325: 2015 IS 13779: 1999 Amend. 1 to 5 IS 14697: 1999 Amend. 1 to 4 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003	Voltage: 40 V to 320 V Current: 10 mA to <50 mA 50 mA to 100 A Frequency: 47.5 Hz to 60 Hz CosØ / SinØ=(±) 0.5 to 1

**Neeraj Verma**  
Convenor

**N. Venkateswaran**  
Program Director

**Laboratory**                      **Testing and Calibration Laboratory, Secure Meters Limited, RIICO  
Bhamashah Industrial Area, Kaladwas, Udaipur, Rajasthan**

**Accreditation Standard**    **ISO/IEC 17025: 2005**

**Certificate Number**        **TC-7260 (in lieu of T-1075)**

**Page 2 of 4**

**Validity**                         **30.06.2018 to 29.06.2020**

**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
			IEC 62053-23: 2003 NMI M 6-1: 2011 AS 62052-11: 2005 AS 62053-21: 2005 AS 62053-22: 2005 IS 15884: 2010 IS 16444: 2015	
		Meter Constant	CBIP-325: 2015 IS13779: 1999 Amend. 1 to 5 IS14697: 1999 Amend. 1 to 4 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 NMI M 6-1: 2011 AS 62052-11: 2005 AS 62053-21: 2005 AS 62053-22: 2005 IS 15884: 2010 IS 16444: 2015	Voltage: 40 V to 320 V Current: 10 mA to <50 mA 50 mA to 100 A Frequency: 47.5 Hz to 60 Hz CosØ / SinØ= (±)0.5 to 1
		Starting Conditions	CBIP-325: 2015 IS13779: 1999 Amend. 1 to 5 IS14697: 1999 Amend. 1 to 4 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 NMI M 6-1: 2011 AS 62052-11: 2005 AS 62053-21: 2005 AS 62053-22: 2005	Voltage: 40 V to 320 V Current: 1 mA to <50 mA 50 mA to 100 A Frequency: 47.5 Hz to 60 Hz CosØ / SinØ=(±) 0.5 to 1

**Neeraj Verma**  
Convenor

**N. Venkateswaran**  
Program Director

**Laboratory**                      **Testing and Calibration Laboratory, Secure Meters Limited, RIICO  
Bhamashah Industrial Area, Kaladwas, Udaipur, Rajasthan**

**Accreditation Standard**    **ISO/IEC 17025: 2005**

**Certificate Number**        **TC-7260 (in lieu of T-1075)**

**Page 3 of 4**

**Validity**                        **30.06.2018 to 29.06.2020**

**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
			IS 15884: 2010 IS 16444: 2015	
		No Load Condition	CBIP-325: 2015 IS13779: 1999 Amend. 1 to 5 IS14697: 1999 Amend. 1 to 4 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 NMI M 6-1: 2011 AS 62052-11: 2005 AS 62053-21: 2005 AS 62053-22: 2005 IS 15884: 2010 IS 16444: 2015	Upto 550 V AC phase to phase / 320 VAC phase to neutral
		Repeatability of Errors	CBIP-325: 2015 IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 IS 15884: 2010, IS 16444: 2015	Voltage: 40 V to 320 V Current: 10 mA to <50 mA 50 mA to 100 A Frequency: 47.5 Hz to 60 Hz CosØ / SinØ=(±) 0.5 to 1
		Test of Influence Quantities Voltage Variation Frequency Variation Reverse Phase Sequence Voltage Unbalance	CBIP-325: 2015 IS13779: 1999 Amend. 1 to 5 IS14697: 1999 Amend. 1 to 4 IEC62052-11: 2003 IEC62053-21: 2003 IEC62053-22: 2003 IEC62053-23: 2003	Voltage: 40 V to 320 V Current: 10 mA to < 50 mA 50 mA to 100 A Frequency: 47.5 Hz to 60 Hz CosØ / SinØ= (±)0.5 to 1

**Neeraj Verma**  
Convenor

**N. Venkateswaran**  
Program Director

**Laboratory** Testing and Calibration Laboratory, Secure Meters Limited, RIICO  
Bhamashah Industrial Area, Kaladwas, Udaipur, Rajasthan

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-7260 (in lieu of T-1075)

Page 4 of 4

**Validity** 30.06.2018 to 29.06.2020

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
			AS 62052-11: 2005 AS 62053-21: 2005 AS 62053-22: 2005 IS 15884: 2010 IS 16444: 2015	
		Power Consumption	CBIP-325: 2015 IS13779: 1999 Amend. 1 to 5 IS14697: 1999 Amend. 1 to 4 IEC 62052-11: 2003 IEC 62053-21: 2003 IEC 62053-22: 2003 IEC 62053-23: 2003 AS 62052-11: 2005 AS 62053-21: 2005 AS 62053-22: 2005 IS 15884: 2010 IS 16444: 2015	0.063 W to 6.35 kW 0.06 VA to 24 VA

---

Neeraj Verma  
Convenor

---

N. Venkateswaran  
Program Director