



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name TESTING AND CALIBRATION LABORATORY, SECURE METERS LIMITED,
SANAND, E-566, GIDC, SANAND-II, INDUSTRIAL ESTATE, ROAD NO-H, SANAND,
AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7732 Page No. : 1 / 13

Validity 16/08/2018 to 15/08/2020 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	AC Voltage	CBIP 325: 2015	Qualitative(1 kV to 5 kV)
2	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	AC Voltage	IS 13779: 1999	Qualitative(1 kV to 5 kV)
3	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	AC Voltage	IEC 62053-21: 2003	Qualitative(1 kV to 5 kV)
4	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	AC Voltage	IEC 62053-23: 2003	Qualitative(1 kV to 5 kV)
5	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	AC Voltage	IEC 62052-11: 2003	Qualitative(1 kV to 5 kV)
6	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	AC Voltage	IEC 62053-22: 2003	Qualitative(1 kV to 5 kV)



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7	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	AC Voltage	IS 15884: 2010	Qualitative(1 kV to 5 kV)
8	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	AC Voltage	IS 14697: 1999	Qualitative(1 kV to 5 kV)
9	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	AC Voltage	IS 16444: 2015	Qualitative(1 kV to 5 kV)
10	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Insulation Resistance	IS 14697: 1999	30 kohm to 5 Gohm
11	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Insulation Resistance	IS 13779: 1999	30 kohm to 5 Gohm
12	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Insulation Resistance	IS 15884: 2010	30 kohm to 5 Gohm



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13	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Insulation Resistance	CBIP 325: 2015	30 kohm to 5 Gohm
14	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Insulation Resistance	IS 16444: 2015	30 kohm to 5 Gohm
15	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Limits of Errors	CBIP 325: 2015	0.2 Wh or VARh to 108 kWh or kVARh
16	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Limits of Errors	IS 13779: 1999	0.2 Wh or VARh to 108 kWh or kVARh
17	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Limits of Errors	IS 14697: 1999	0.2 Wh or VARh to 108 kWh or kVARh
18	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Limits of Errors	IEC 62053-23: 2003	0.2 Wh or VARh to 108 kWh or kVARh



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19	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Limits of Errors	IS 15884: 2010	0.2 Wh or VARh to 108 kWh or kVARh
20	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Limits of Errors	IEC 62053-11: 2003	0.2 Wh or VARh to 108 kWh or kVARh
21	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Limits of Errors	IEC 62053-22: 2003	0.2 Wh or VARh to 108 kWh or kVARh
22	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Limits of Errors	IEC 62053-21: 2003	0.2 Wh or VARh to 108 kWh or kVARh
23	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Limits of Errors	IS 16444: 2015	0.2 Wh or VARh to 108 kWh or kVARh
24	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Meter Constant	IEC 62053-11: 2003	0.2 Wh or VARh to 108 kWh or kVARh



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25	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Meter Constant	IS 13779: 1999	0.2 Wh or VARh to 108 kWh or kVARh
26	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Meter Constant	IS 14697: 1999	0.2 Wh or VARh to 108 kWh or kVARh
27	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Meter Constant	IEC 62053-21: 2003	0.2 Wh or VARh to 108 kWh or kVARh
28	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Meter Constant	IEC 62053-22: 2003	0.20 Wh or VARh to 108 kWh or kVARh
29	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Meter Constant	IEC 62053-23: 2003	0.2 Wh or VARh to 108 kWh or kVARh
30	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Meter Constant	IS 15884: 2010	0.2 Wh or VARh to 108 kWh or kVARh



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31	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Meter Constant	CBIP 325: 2015	0.2 Wh or VARh to 108 kWh or kVARh
32	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Meter Constant	IS 16444: 2015	0.20 Wh or VARh to 108 kWh or kVARh
33	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	No Load Condition	CBIP 325: 2015	40 V to 320 V
34	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	No Load Condition	IEC 62053-21: 2003	40 V to 320 V
35	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	No Load Condition	IS 14697: 1999	40 V to 320 V
36	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	No Load Condition	IEC 62053-11: 2003	40 V to 320 V



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37	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	No Load Condition	IEC 62053-22: 2003	40 V to 320 V
38	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	No Load Condition	IEC 62053-23: 2003	40 V to 320 V
39	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	No Load Condition	IS 15884: 2010	40 V to 320 V
40	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	No Load Condition	IS 13779: 1999	40 V to 320 V
41	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	No Load Condition	IS 16444 (Part-1): 2015	40 V to 320 V
42	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Power Consumption	CBIP 325: 2015	0.02 Watt/VA to 10 Watt/VA



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43	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Power Consumption	IEC 62053-21: 2003	0.02 Watt/VA to 10 Watt/VA
44	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Power Consumption	IS 15884: 2010	0.02 Watt/VA to 10 Watt/VA
45	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Power Consumption	IS 14697: 1999	0.02 Watt/VA to 10 Watt/VA
46	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Power Consumption	IEC 62053-22: 2003	0.02 Watt/VA to 10 Watt/VA
47	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Power Consumption	IEC 62053-23: 2003	0.02 Watt/VA to 10 Watt/VA
48	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Power Consumption	IS 13779: 1999	0.02 Watt/VA to 10 Watt/VA



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49	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Power Consumption	IEC 62053-11: 2003	0.02 Watt/VA to 10 Watt/VA
50	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Power Consumption	IS 16444: 2015	0.02 Watt/VA to 10 Watt/VA
51	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Repeatability of Errors	CBIP 325: 2015	0.2 Wh or VARh to 108 kWh or kVARh
52	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Repeatability of Errors	IS 13779: 1999	0.2 Wh or VARh to 108 kWh or kVARh
53	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Repeatability of Errors	IS 14997: 1999	0.2 Wh or VARh to 108 kWh or kVARh
54	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Repeatability of Errors	IS 15884: 2010	0.2 Wh or VARh to 108 kWh or kVARh



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55	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Repeatability of Errors	IS 16444: 2015	0.2 Wh/VArh to 108 kWh/kVArh
56	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Starting Conditions	CBIP 325: 2015	1 mA to 120 A
57	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Starting Conditions	IEC 62053-21: 2003	1 mA to 120 A
58	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Starting Conditions	IS 13779: 1999	1 mA to 120 A
59	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Starting Conditions	IS 14697: 1999	1 mA to 120 A
60	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Starting Conditions	IEC 62053-22: 2003	1 mA to 120 A



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61	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Starting Conditions	IEC 62053-23: 2003	1 mA to 120 A
62	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Starting Conditions	IS 15884: 2010	1 mA to 120 A
63	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Starting Conditions	IEC 62053-11: 2003	1 mA to 120 A
64	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Starting Conditions	IS 16444: 2015	1 mA to 120 A
65	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	CBIP 325: 2015	0.2 Wh or VARh to 108 kWh or kVARh
66	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 14697: 1999	0.20 Wh or VARh to 108 kWh or kVARh



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67	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62053-11: 2003	0.2 Wh or VARh to 108 kWh or kVARh
68	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 13779: 1999	0.2 Wh or VARh to 108 kWh or kVARh
69	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62053-22: 2003	0.2 Wh or VARh to 108 kWh or kVARh
70	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62053-23: 2003	0.2 Wh or VARh to 108 kWh or kVARh
71	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62053-21: 2003	0.2 Wh or VARh to 108 kWh or kVARh



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72	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 15884: 2010	0.2 Wh or VARh to 108 kWh or kVARh
73	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 16444: 2015	0.2 Wh or VARh to 108 kWh or kVARh