National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s, 1.0s, 0.5, 1 and 2)	AC Voltage	IEC 62052-31
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s, 1.0s, 0.5, 1 and 2)	Meter Constant	IEC 62052-11
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s and 0.5s)	Limits of Errors	IEC 62053-22
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s and 0.5s)	Meter Constant	IEC 62053-22
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s and 0.5s)	No Load Condition	IEC 62053-22
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s and 0.5s)	Power Consumption	IEC 62053-22
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s and 0.5s)	Repeatability of Errors	IEC 62053-22
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s and 0.5s)	Starting Conditions	IEC 62053-22
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s and 0.5s)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62053-22
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0)	AC Voltage	CBIP 325

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11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0)	Insulation Resistance	CBIP 325
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0)	Limits of Errors	CBIP 325
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0)	Meter Constant	CBIP 325
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0)	No Load Condition	CBIP 325
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0)	Power Consumption	CBIP 325
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0)	Repeatability of Errors	CBIP 325
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0)	Starting Conditions	CBIP 325
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	CBIP 325
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	AC Voltage	IS 14697
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	AC Voltage	IS 16444 (Part2)
21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Insulation Resistance	IS 14697

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22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Insulation Resistance	IS 16444 (Part2)
23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Limits of Error	IS 16444 (Part2)
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Limits of Errors	IS 14697
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Meter Constant	IS 14697
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Meter Constant	IS 16444 (Part 2)
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	No Load Condition	IS 14697
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	No Load Condition	IS 16444 (Part 2)
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Power Consumption	IS 14697
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Power Consumption	IS 16444 (Part 2)
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Repeatability of Errors	IS 14697
32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Repeatability of Errors	IS 16444 (Part 2)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Starting Conditions	IS 14697
34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Starting Conditions	IS 16444 (Part 2)
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 14697
36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s and 1.0s)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 16444 (Part 2)
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s, 1.0s, 0.5, 1 and 2)	Limits of Errors	IEC 62052-11
38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s, 1.0s, 0.5, 1 and 2)	No Load Condition	IEC 62052-11
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s, 1.0s, 0.5, 1 and 2)	Power Consumption	IEC 62052-11
40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s, 1.0s, 0.5, 1 and 2)	Repeatability of Errors	IEC 62052-11
41	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s, 1.0s, 0.5, 1 and 2)	Starting Conditions	IEC 62052-11
42	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.2s, 0.5s, 1.0s, 0.5, 1 and 2)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62052-11
43	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5, 1 and 2)	Limits of Errors	IEC 62053-21

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44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5, 1 and 2)	Meter Constant	IEC 62053-21
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5, 1 and 2)	No Load Condition	IEC 62053-21
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5, 1 and 2)	Power Consumption	IEC 62053-21
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5, 1 and 2)	Repeatability of Errors	IEC 62053-21
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5, 1 and 2)	Starting Conditions	IEC 62053-21
49	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5, 1 and 2)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62053-21
50	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5S, 1S, 2S and 3S)	Limits of Errors	IEC 62053-24
51	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5S, 1S, 2S and 3S)	Meter Constant	IEC 62053-24
52	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5S, 1S, 2S and 3S)	No Load Condition	IEC 62053-24
53	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5S, 1S, 2S and 3S)	Power Consumption	IEC 62053-24
54	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5S, 1S, 2S and 3S)	Repeatability of Errors	IEC 62053-24

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55	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5S, 1S, 2S and 3S)	Starting Conditions	IEC 62053-24
56	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5S, 1S, 2S and 3S)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62053-24
57	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	AC Voltage	IS 13779
58	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	AC Voltage	IS 15884
59	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	AC Voltage	IS 16444
60	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Insulation Resistance	IS 13779
61	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Insulation Resistance	IS 15884
62	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Insulation Resistance	IS 16444
63	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Limits of Errors	IS 13779
64	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Limits of Errors	IS 15884
65	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Limits of Errors	IS 16444

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66	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Meter Constant	IS 13779
67	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Meter Constant	IS 15884
68	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Meter Constant	IS 16444
69	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	No Load Condition	IS 13779
70	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	No Load Condition	IS 15884
71	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	No Load Condition	IS 16444
72	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Power Consumption	IS 13779
73	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Power Consumption	IS 15884
74	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Power Consumption	IS 16444
75	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Repeatability of Errors	IS 13779
76	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Repeatability of Errors	IS 15884

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77	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Repeatability of Errors	IS 16444
78	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Starting Conditions	IS 13779
79	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Starting Conditions	IS 15884
80	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Starting Conditions	IS 16444
81	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 13779
82	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 15884
83	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1 and 2)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 16444
84	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 2 and 3)	Limits of Errors	IEC 62053-23
85	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 2 and 3)	Meter Constant	IEC 62053-23
86	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 2 and 3)	No Load Condition	IEC 62053-23
87	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 2 and 3)	Power Consumption	IEC 62053-23

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88	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 2 and 3)	Repeatability of Errors	IEC 62053-23
89	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 2 and 3)	Starting Conditions	IEC 62053-23
90	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 2 and 3)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62053-23