National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING AND CALIBRATION LAB, SECURE METERS LIMITED, VILLAGE BATED, OFF- HARIPUR ROAD BAROTIWALA, SOLAN, BADDI, HIMACHAL PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6043 **Page No** 1 of 10

Validity 24/07/2022 to 23/07/2024 **Last Amended on** 31/08/2022

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 Meter (Class 0.2s, 0.5s)	Power Consumption	IS 14697
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s, 0.5s)	Repeatability of Errors	IS 14697
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s, 0.5s, 1.0)	Repeatability of Errors	CBIP 325
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s, 0.5s, 1.0)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	CBIP 325
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s, 0.5s, 1.0)	AC High Voltage Test	CBIP 325
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s, 0.5s, 1.0)	Insulation Resistance Test	CBIP 325
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s, 0.5s, 1.0)	Limits of Errors	CBIP 325
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s, 0.5s, 1.0)	Meter Constant	CBIP 325
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s, 0.5s, 1.0)	Power Consumption	CBIP 325
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s, 0.5s, 1.0)	Repeatability of Errors	CBIP 325

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11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s, 0.5s, 1.0)	Starting Conditions	CBIP 325
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s, 0.5s, 1.0)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	CBIP 325
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s,0.5s, 1.0)	Limits of Errors	CBIP 325
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s,0.5s, 1.0)	Meter Constant	CBIP 325
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s,0.5s, 1.0)	Power Consumption	CBIP 325
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.2s,0.5s, 1.0)	No Load Condition	CBIP 325
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5, 1, 2)	Power Consumption	IEC 62052-11
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5, 1, 2)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62052-11
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5, 1, 2)	Limits of Errors	IEC 62052-11
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5, 1, 2)	Limits of Errors	IEC 62052-11
21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5, 1, 2)	Meter Constant	IEC 62052-11

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22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5, 1, 2)	Meter Constant	IEC 62052-11
23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5, 1, 2)	No Load Condition	IEC 62052-11
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5, 1, 2)	Power Consumption	IEC 62052-11
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5, 1, 2)	Starting Conditions	IEC 62052-11
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5, 1, 2)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62052-11
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 02.s, 0.5s)	Limits of Errors	IS 14697
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 02.s, 0.5s)	Meter Constant	IS 14697
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 02.s, 0.5s)	Repeatability of Errors	IS 14697
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 02.s, 0.5s)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 14697
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 02s, 0.5s)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 14697
32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 02s, 0.5s)	AC High Voltage Test	IS14697

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33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 02s, 0.5s)	Insulation Resistance Test	IS 14697
34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 02s, 0.5s)	Meter Constant	IS 14697
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 02s, 0.5s)	No Load Condition	IS 14697
36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Power Consumption	IS 16444
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Power Consumption	IS 13779
38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	AC High Voltage Test	IS 13779
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	AC High Voltage Test	IS 16444
40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Insulation Resistance Test	IS 13779
41	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Insulation Resistance Test	IS 15884
42	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Insulation Resistance Test	IS 16444
43	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Limits of Errors	IS 13779

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44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Limits of Errors	IS 13779
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Limits of Errors	IS15884
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Meter constant	IS 13779
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Meter Constant	IS 16444
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	No Load Condition	IS 13779
49	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	No Load Condition	IS 15884
50	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical energy meter (Class 1, 2)	Power Consumption	IS 13779
51	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Power Consumption	IS 15884
52	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Power Consumption	IS 16444
53	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Power Consumption	IS 15884
54	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Repeatability of Errors	IS 13779

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55	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Repeatability of Errors	IS 16444
56	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Starting Conditions	IS 13779
57	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Starting Conditions	IS 15884
58	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 13779
59	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 15884
60	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IS 16444
61	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Meter Constant	IS 15884
62	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 1, 2)	Repeatability of Errors	IS 15884
63	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5, 1, 2)	Repeatability of Errors	IEC 62052-11
64	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5, 1, 2)	Repeatability of Errors	IEC 62052-11
65	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5,1& 2)	AC High Voltage Test	IEC 62053-21

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66	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5,1& 2)	Limits of Errors	IEC 62053-21
67	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5,1& 2)	Meter Constant	IEC 62053-21
68	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5,1& 2)	Meter Constant	IEC 62053-21
69	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5,1& 2)	No Load Condition	IEC 62053-21
70	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5,1& 2)	Power Consumption	IEC 62053-21
71	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5,1& 2)	Power Consumption	IEC 62053-21
72	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5,1& 2)	Repeatability of Errors	IEC 62053-21
73	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5,1& 2)	Starting Conditions	IEC 62053-21
74	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5,1& 2)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62053-21
75	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5s, 0.1s, 2 & 3)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62053-24
76	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5s, 0.1s, 2 & 3)	AC High Voltage Test	IEC 62053-24

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77	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5s, 0.1s, 2 & 3)	Limits of Errors	IEC 62053-24
78	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5s, 0.1s, 2 & 3)	Meter Constant	IEC 62053-24
79	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5s, 0.1s, 2 & 3)	No Load Condition	IEC 62053-24
80	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5s, 0.1s, 2 & 3)	Power Consumption	IEC 62053-24
81	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5s, 0.1s, 2 & 3)	Power Consumption	IEC 62053-24
82	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5s, 0.1s, 2 & 3)	Repeatability of Errors	IEC 62053-24
83	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 0.5s, 0.1s, 2 & 3)	Starting Conditions	IEC 62053-24
84	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meter (Class 02s, 0.5s)	Power Consumption	IS 14697
85	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 0.5, 1, 2)	AC High Voltage Test	IEC 62052-11
86	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 02s, 0.5s)	Starting Conditions	IS 14697
87	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1, 2)	AC High Voltage Test	IS 15884

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88	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical energy Meters (Class 1, 2)	LImits of Errors	IS 16444
89	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1.0, 2.0)	No Load Conditions	IS 16444
90	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1.0, 2.0)	Starting Conditions	IS 16444
91	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1s, 0.2s & 0.5s)	AC High Voltage Test	IEC 62053-22
92	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1s, 0.2s & 0.5s)	Limits of Errors	IEC 62053-22
93	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1s, 0.2s & 0.5s)	Meter Constant	IEC 62053-22
94	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1s, 0.2s & 0.5s)	Meter Constant	IEC 62053-22
95	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1s, 0.2s & 0.5s)	No Load Condition	IEC 62053-22
96	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1s, 0.2s & 0.5s)	Power Consumption	IEC 62053-22
97	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1s, 0.2s & 0.5s)	Power Consumption	IEC 62053-22
98	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1s, 0.2s & 0.5s)	Repeatability of Errors	IEC 62053-22

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99	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1s, 0.2s & 0.5s)	Starting Conditions	IEC 62053-22
100	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters (Class 1s, 0.2s & 0.5s)	Test of Influence Quantities (Voltage Variation, Frequency Variation, Reverse Phase Sequence, Voltage Unbalance)	IEC 62053-22