National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : METER TESTING LABORATORY, UHBVN, POWER HOUSE COMPLEX, DHULKOTE, AMBALA, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7165 **Page No** 1 of 6

Validity 09/03/2023 to 08/03/2025 **Last Amended on** 23/03/2023

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	a.c. STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR SMART METERS, CLASS 0.2S, 0.5S, 1S	Meter Constant	IS 16444 (Part-2) Clause No. 6.12
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, Class 1 & 2	Test for Reverse Phase sequence	IS 13779 (Clause No.11.2, 12.11)
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR SMART METERS, CLASS 0.2S	No Load Condition	IS 16444 (Part 2) (Clause 6.12)
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR SMART METERS, CLASS 0.2S	Power Consumption	IS 16444 (Part-2) (Clause No. 6.10.1)
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR SMART METERS, CLASS 0.2S	Repeatability	IS 16444 (Part-2) (Clause No. 6.12)
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR SMART METERS, CLASS 0.2S	Starting Condition	IS 16444 (Part-2) (Clause No. 6.12)
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR SMART METERS, CLASS 0.2S	Voltage Variation	IS 16444 (Part-2) (Clause No. 6.12)
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR SMART METERS, CLASS 0.2S, 0.5S, 1S	AC High Voltage	IS 16444 (Part-2) (Clause No. 6.10.6)
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR SMART METERS, CLASS 0.2S, 0.5S, 1S	Frequency Variation	IS 16444 (Part-2) (Clause No. 6.12)
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR SMART METERS, CLASS 0.2S, 0.5S, 1S	Insulation Resistance	IS 16444 (Part-2) (Clause No. 6.10.6)

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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
11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR SMART METERS, CLASS 0.2S, 0.5S, 1S	Limits of Error	IS 16444 (Part-2) (Clause No. 6.12)
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR SMART METERS, CLASS 0.2S, 0.5S, 1S	Reverse Phase Sequence	IS 16444 (Part-2) (Clause No.6.12)
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR SMART METERS, CLASS 0.2S, 0.5S, 1S	Voltage Unbalance	IS 16444 (Part-2) (Clause No. 6.12)
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC WATTHOUR SMART METER - Class 1 & 2	AC High Voltage Test	IS 16444 (Part-1) (Clause No. 6.10.6)
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC WATTHOUR SMART METER - Class 1 & 2	Frequency Variation	IS 16444 (Part-1) (Clause No. 6.12)
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC WATTHOUR SMART METER - Class 1 & 2	Insulation Resistance	IS 16444 (Part-1) (Clause No. 6.10.6)
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC WATTHOUR SMART METER - Class 1 & 2	Limits of Error	IS 16444 (Part-1) (Clause No. 6.12)
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC WATTHOUR SMART METER - Class 1 & 2	Meter Constant	IS 16444(Part-1) (Clause No. 6.12)
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC WATTHOUR SMART METER - Class 1 & 2	No Load Condition	IS 16444 (Part-1) (Clause No. 6.12)
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC WATTHOUR SMART METER - Class 1 & 2	Power Consumption	IS 16444 (Part-1) (Clause No. 6.10.1)
21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC WATTHOUR SMART METER - Class 1 & 2	Repeatability	IS 16444(Part-1) clause no. 6.12

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22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC WATTHOUR SMART METER - Class 1 & 2	Reverse Phase Sequence	IS 16444 (Part-1) (Clause No. 6.12)
23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC WATTHOUR SMART METER - Class 1 & 2	Starting Condition	IS 16444 (Part-1) (Clause No. 6.12)
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC WATTHOUR SMART METER - Class 1 & 2	Voltage Unbalance	IS 16444 (Part-1) (Clause No. 6.12)
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. STATIC WATTHOUR SMART METER - Class 1 & 2	Voltage Variation	IS 16444 (Part-1) (Clause No. 6.12)
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS, Class 0.2s, 0.5s & 1s	Test for Reverse Phase sequence	IS 14697 (Clause no.11.2, 12.10)
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS, Class 0.2s, 0.5s & 1s	AC High Voltage	IS 14697: Clause no. 12.7.6.3
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS, Class 0.2s, 0.5s & 1s	Insulation Resistance	IS 14697 (Clause no. 12.7.6.4)
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS, Class 0.2s, 0.5s & 1s	Limits of Error	IS 14697: Clause no. 11.1
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS, Class 0.2s, 0.5s & 1s	Meter Constant	IS 14697 (Clause no. 12.14)
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS, Class 0.2s, 0.5s & 1s	No Load condition	IS 14697: Clause no.12.12
32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS, Class 0.2s, 0.5s & 1s	Power Consumption	IS 14697 (Clause no. 12.7.1)

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33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS, Class 0.2s, 0.5s & 1s	Repeatability	IS 14697: Clause no.12.16
34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS, Class 0.2s, 0.5s & 1s	Starting condition	IS 14697: Clause no. 12.13
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS, Class 0.2s, 0.5s & 1s	Test for Frequency Variation	IS 14697: Clause no. 11.2, 12.10
36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS, Class 0.2s, 0.5s & 1s	Test for Voltage Unbalance	IS 14697: Clause no. 11.2, 12.10
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS, Class 0.2s, 0.5s & 1s	Test for Voltage Variation	IS 14697, Clause no. 11.2, 12.10
38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, Class 1 & 2	No Load condition	IS 13779 (Clause no.12.13)
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, Class 1 & 2	Power Consumption	IS 13779 (Clause no. 12.7.1)
40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, Class 1 & 2	Repeatability	IS 13779 (Clause no.12.17)
41	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, Class 1 & 2	Starting condition	IS 13779 (Clause no. 12.14)
42	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, Class 1 & 2	Test for Frequency variation	IS 13779 (Clause No.11.2, 12.11)
43	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, Class 1 & 2	AC High Voltage	IS 13779: Clause no. 12.7.6.3

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44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, Class 1 & 2	Insulation Resistance	IS 13779 (Clause no. 12.7.6.4)
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, Class 1 & 2	Limits of Error	IS 13779: Clause no 11.1
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, Class 1 & 2	Meter Constant	IS 13779 (Clause no.12.15)
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, Class 1 & 2	Test for Voltage Unbalance	IS 13779: Clause No.11.2, 12.11
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, Class 1 & 2	Test for Voltage Variation	IS 13779: Clause No.11.2, 12.11
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Combined Transformer Class 0.2, 0.5, 0.2s, 0.5s	High Voltage power frequency test on primary windings	IS 16227 (Part-4) Clause No. 7.3.1
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Combined Transformer Class 0.2, 0.5, 0.2s, 0.5s	High Voltage power frequency test on Secondary windings	IS 16227 (Part-4) Clause No. 7.3.4
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Combined Transformer Class 0.2, 0.5, 0.2s, 0.5s	Test for Accuracy for Phase Angle Error	IS 16227 (Part-4) Clause No. 7.3.5
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Combined Transformer Class 0.2, 0.5, 0.2s, 0.5s	Test for Accuracy for Ratio Error	IS 16227 (Part-4) Clause No. 7.3.5
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Combined Transformer Class 0.2, 0.5, 0.2s, 0.5s	Verification of terminal marking and Polarity	IS 16227 (Part-4) Clause No. 7.3.6
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer Class 0.2S, 0.5S & 0.5	Test for Accuracy for Phase Angle Error	IS 16227 (Part 2) (Clause no. 7.3.5, 5.6.201.3)
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer Class 0.2S, 0.5S & 0.5	High Voltage power frequency test on primary windings	Withdrawn Standard IS 2705 (Part-1) (Clause No. 9.3)
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer Class 0.2S, 0.5S & 0.5	High Voltage power frequency test on primary windings	IS 16227 (Part-2) Clause No. 7.3.1
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer Class 0.2S, 0.5S & 0.5	High Voltage power frequency test on secondary windings	IS 16227 (Part-2) (Clause No. 7.3.4)
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer Class 0.2S, 0.5S & 0.5	High Voltage power frequncy test on secondary windings	Withdrawn Standard IS 2705 (Part-1) Clause No. 9.4

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59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer Class 0.2S, 0.5S & 0.5	Test for Accuracy for Phase Angle Error	Withdrawn Standard IS 2705 (Part 2) (Clause no. 7.1.1)
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer Class 0.2S, 0.5S & 0.5	Test for Accuracy for Ratio Error	IS 16227 (Part 2) (Clause no.7.3.5, 5.6.201.3)
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer Class 0.2S, 0.5S & 0.5	Verification of terminal marking and Polarity	IS 16227 (Part-2) Clause No. 7.3.6
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer Class 0.2S, 0.5S & 0.5	Verification of terminal marking and Polarity	Withdrawn Standard IS 2705 (Part 1) (Clause no. 8.2)
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer Class 0.2S,0.5S & 0.5	Test for Accuracy for Ratio Error	Withdrawn Standard IS 2705 (Part 2) (Clause no. 7.1.1)
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Class 0.2 & 0.5	Test for Accuracy for Ratio Error	IS 16227 (Part3) (Clause no. 7.3.5, 5.6.301.3)
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Class 0.2 & 0.5	High Voltage power frequency test on primary windings	IS 16227 (Part-3) Clause No. 7.3.1
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Class 0.2 & 0.5	High Voltage power frequency test on Secondary windings	IS 16227 (Part-3) Clause No. 7.3.4
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Class 0.2 & 0.5	High Voltage power frequency test on primary windings	Withdrawn Standard IS 3156 (Part 1) (Clause no. 9.3)
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Class 0.2 & 0.5	High Voltage power frequency test on Secondary windings	Withdrawn Standard IS 3156 (Part 1) (Clause no. 9.4)
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Class 0.2 & 0.5	Test for Accuracy for Phase Angle Error	IS 16227 (Part 3) (Clause no.7.3.5, 5.6.301.3)
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Class 0.2 & 0.5	Test for Accuracy for Phase Angle Error	Withdrawn Standard IS 3156 (Part 2) (Clause no. 8.1.1)
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Class 0.2 & 0.5	Test for Accuracy for Ratio Error	Withdrawn Standard IS 3156 (Part 2) (Clause no. 8.1.1)
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Class 0.2 & 0.5	Verification of terminal marking and Polarity	IS 16227 (Part-3) (Clause No. 7.3.6)
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Class 0.2 & 0.5	Verification of terminal marking and Polarity	Withdrawn Standard IS 3156 (Part 1) (Clause no. 8.2)