National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING AND CALIBRATION LABORATORY, HPL ELECTRIC & POWER LIMITED, PLOT 357Q, PACE CITY II, SECTOR 37, GURGAON, GURUGRAM, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7170 **Page No** 1 of 7

Validity 26/12/2021 to 25/12/2023 **Last Amended on** -

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	Energy Meters (Class 0.2S, 0.5S and 1.0S)	AC High Voltage Test	IS 14697 (Clause No.:- 12.7.6.3)
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	AC High Voltage Test	IS 16444 (Part 2), (Clause No:- 6.10.6)
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Insulation Resistance Test	IS 14697 (Clause No.:- 12.7.6.4)
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Insulation Resistance Test	IS 16444 (Part 2), (Clause No:- 6.10.6)
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Power Consumption Test	IS 16444 (Part 2), (Clause No:- 6.10.1)
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Power Consumption Test	IS 14697 (Clause No.:- 12.7.1)
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Power Consumption Test	IS 14697 (Clause No.:- 12.7.1)
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Power Consumption Test	IS 16444 (Part 2), (Clause No:- 6.10.1)
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of Meter Constant	IS 14697 (Clause No.:- 12.14)
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of Meter Constant	IS 16444 (Part 2), (Clause No:- 6.12)

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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	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of No Load Condition	IS 14697 (Clause No.:- 12.12)
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of No Load Condition	IS 16444 (Part 2), (Clause No:- 6.12)
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of Repeatability of Error	IS 14697 (Clause No.:- 12.16)
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of Repeatability of Error	IS 16444 (Part 2), (Clause No:- 6.12)
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of Starting Condition	IS 14697, (Clause No.:- 12.13)
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of Starting Condition	IS 16444 (Part 2), (Clause No:- 6.12)
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test on Limits of Error	IS 14697 (Clause No.:- 11.1)
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test on Limits of Error	IS 16444 (Part 2), (Clause No:- 6.12)
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	AC High Voltage Test	IS 13779 (Clause No:- 12.7.6.3)
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	AC High Voltage Test	IS 15884 (Clause No.:- 5.4.6.3)
21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	AC High Voltage Test	IS 16444 (Part 1), (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
22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Insulation Resistance Test	IS 13779 (Clause No.:- 12.7.6.4)
23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Insulation Resistance Test	IS 15884 (Clause No.:- 5.4.6.4)
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Insulation Resistance Test	IS 16444 (Part 1), (Clause No:- 6.10.6)
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Power Consumption Test	IS 16444 (Part 1), (Clause No:- 6.10.1)
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Power Consumption Test	IS 16444 (Part 1), (Clause No:- 6.10.1)
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Power Consumption Test	IS 13779 (Clause No.:- 12.7.1)
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Power Consumption Test	IS 13779 (Clause No.:- 12.7.1)
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Power Consumption Test	IS 15884 (Clause No.:- 5.4.1)
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Power Consumption Test	IS 15884 (Clause No.:- 5.4.1)
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Meter Constant	IS 13779 (Clause No.:- 12.15)
32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Meter Constant	IS 15884 (Clause No.:- 5.6.5)

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33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Meter Constant	IS 16444 (Part 1), (Clause No:- 6.12)
34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of No Load Condition	IS 13779 (Clause No.:- 12.13)
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of No Load Condition	IS 15884 (Clause No.:- 5.6.3)
36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of No Load Condition	IS 16444 (Part 1), (Clause No:- 6.12)
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Repeatability of Error	IS 13779 (Clause No.:- 12.17)
38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Repeatability of Error	IS 15884 (Clause No.:- 5.6.7)
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Repeatability of Error	IS 16444 (Part 1), (Clause No:- 6.12)
40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Starting Condition	IS 13779, (Clause No.:- 12.14)
41	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Starting Condition	IS 16444 (Part 1), (Clause No:- 6.12)
42	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Starting Condition	IS 15884 (Clause No.:- 5.6.4)
43	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test on Limits of Error	IS 13779 (Clause No.:- 11.1)

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44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test on Limits of Error	IS 15884 (Clause No.:- 4.6.1)
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test on Limits of Error	IS 16444 (Part 1), (Clause No:- 6.12)

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Site Facility				
1	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of No Load Condition	IS 14697 (Clause No.:- 12.12)
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of No Load Condition	IS 16444 (Part 2), (Clause No:- 6.12)
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of Repeatability of Error	IS 14697 (Clause No.:- 12.16)
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of Repeatability of Error	IS 16444 (Part 2), (Clause No:- 6.12)
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of Starting Condition	IS 14697, (Clause No.:- 12.13)
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test of Starting Condition	IS 16444 (Part 2), (Clause No:- 6.12)
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test on Limits of Error	IS 14697 (Clause No.:- 11.1)
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 0.2S, 0.5S and 1.0S)	Test on Limits of Error	IS 16444 (Part 2), (Clause No:- 6.12)
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of No Load Condition	IS 13779 (Clause No.:- 12.13)
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of No Load Condition	IS 15884 (Clause No.:- 5.6.3)

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11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of No Load Condition	IS 16444 (Part 1), (Clause No:- 6.12)
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Repeatability of Error	IS 13779 (Clause No.:- 12.17)
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Repeatability of Error	IS 15884 (Clause No.:- 5.6.7)
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Repeatability of Error	IS 16444 (Part 1), (Clause No:- 6.12)
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Starting Condition	IS 13779, (Clause No.:- 12.14)
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Starting Condition	IS 16444 (Part 1), (Clause No:- 6.12)
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test of Starting Condition	IS 15884 (Clause No.:- 5.6.4)
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test on Limits of Error	IS 13779 (Clause No.:- 11.1)
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test on Limits of Error	IS 15884 (Clause No.:- 4.6.1)
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Class 1 and 2)	Test on Limits of Error	IS 16444 (Part 1), (Clause No:- 6.12)