National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GENUS INNOVATION LIMITED METERING LABORATORY, PLOT-22, IP4 BEGHUMPUR, HARIDWAR, UTTARAKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5221 **Page No** 1 of 6

Validity 22/04/2023 to 21/04/2025 **Last Amended on** 04/05/2023

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	AC Static Direct Connected Watthour Smart Meter Class 1 and 2	AC High Voltage Test	IS 16444 (Part-1) (Cl 6.10.6)
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watthour Smart Meter Class 1 and 2	Insulation test	IS 16444 (Part-1) (Cl 6.10.6)
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watthour Smart Meter Class 1 and 2	limits of error due to other influence quantities (frequency variation)	IS 16444 (Part-1) (Cl 6.12)
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watthour Smart Meter Class 1 and 2	limits of error due to other influence quantities (voltage variation)	IS 16444 (Part-1) (Cl 6.12)
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of meter constant	IS 16444 (Part-1) (Cl 6.12)
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of no-load condition	IS 16444 (Part-1) (Cl 6.12)
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of power consumption	IS 16444 (Part-1) (Cl 6.10.1)
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of power consumption	IS 16444 (Part-1) (Cl 6.10.1)
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Repeatability of Error	IS 16444 (Part-1) (Cl 6.12)
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of starting condition	IS 16444 (Part-1) (Cl 6.12)

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11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watthour Smart Meter Class 1 and 2	Test on Limits of Error	IS 16444 (Part-1) (Cl 6.12)
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	AC High Voltage Test	IS 14697 (Cl 12.7.6.3)
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Insulation test	IS 14697 (Cl 12.7.6.4)
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	limits of error due to other influence quantities (frequency variation)	IS 14697 (Cl 11.2, Table -13)
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	limits of error due to other influence quantities (voltage variation)	IS 14697 (Cl 11.2, Table -13)
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of Meter Constant	IS 14697 (Cl 12.14)
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of No-Load Condition	IS 14697 (Cl 12.12)
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of power consumption	IS 14697 (Cl 12.7.1)
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of Power Consumption	IS 14697 (Cl 12.7.1)
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of Repeatability of Error	IS 14697 (Cl 12.16)
21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of starting condition	IS 14697 (Cl 12.13)

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22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test on Limits of Error	IS 14697 (Cl 11.1)
23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	AC High Voltage Test	IS 16444 (Part-2) (Cl 6.10.6)
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Insulation Test	IS 16444 (Part-2) (Cl 6.10.6)
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	limits of error due to other influence quantities (frequency variation)	IS 16444 (Part-2) (Cl 6.12)
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	limits of error due to other influence quantities (voltage variation)	IS 16444 (Part-2) (Cl 6.12)
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Test of Meter Constant	IS 16444 (Part-2) (Cl 6.12)
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Test of No-Load Condition	IS 16444 (Part-2) (Cl 6.12)
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Test of power consumption	IS 16444 (Part-2) (Cl 6.10.1)
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Test of Power Consumption	IS 16444 (Part-2) (Cl 6.10.1)
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Test of Repeatability of Error	IS 16444 (Part-2) (Cl 6.12)
32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Test of Starting Condition	IS 16444 (Part-2) (Cl 6.12)

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33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Test on Limits of Error	IS 16444 (Part-2) (Cl 6.12)
34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC WATTHOUR METERS, CLASS 1 & 2	Test on Limits of Error	IS 13779 (Cl 11.1)
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC WATTHOUR METERS, CLASS 1 & 2	AC High Voltage Test	IS 13779 (Cl 12.7.6.3)
36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC WATTHOUR METERS, CLASS 1 & 2	Insulation Test	IS 13779 (Cl 12.7.6.4)
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC WATTHOUR METERS, CLASS 1 & 2	limits of error due to other influence quantities (frequency variation)	IS 13779 (Cl 11.2, Table -17)
38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC WATTHOUR METERS, CLASS 1 & 2	limits of error due to other influence quantities (voltage variation)	IS 13779 (Cl 11.2, Table -17)
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC WATTHOUR METERS, CLASS 1 & 2	Test of Meter Constant	IS 13779 (Cl 12.15)
40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC WATTHOUR METERS, CLASS 1 & 2	Test of No-Load Condition	IS 13779 (Cl 12.13)
41	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC WATTHOUR METERS, CLASS 1 & 2	Test of power consumption	IS 13779 (Cl 12.7.1)
42	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC WATTHOUR METERS, CLASS 1 & 2	Test of Power Consumption	IS 13779 (Cl 12.7.1)
43	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC WATTHOUR METERS, CLASS 1 & 2	Test of Repeatability of Error	IS 13779 (Cl 12.17)

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44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC STATIC WATTHOUR METERS, CLASS 1 & 2	Test of Starting Condition	IS 13779 (Cl 12.14)
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ALTERNATING CURRENT DIRECT CONNECTED STATIC PREPAYMENT METERS FOR ACTIVE ENERGY(CLASS 1 & 2)	AC High Voltage Test	IS 15884 (Cl 5.4.6.3)
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ALTERNATING CURRENT DIRECT CONNECTED STATIC PREPAYMENT METERS FOR ACTIVE ENERGY(CLASS 1 & 2)	Insulation Test	IS 15884 (Cl 5.4.6.4)
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ALTERNATING CURRENT DIRECT CONNECTED STATIC PREPAYMENT METERS FOR ACTIVE ENERGY(CLASS 1 & 2)	limits of error due to other influence quantities (frequency variation)	IS 15884 (Cl. 4.6.2)
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ALTERNATING CURRENT DIRECT CONNECTED STATIC PREPAYMENT METERS FOR ACTIVE ENERGY(CLASS 1 & 2)	limits of error due to other influence quantities (voltage variation)	IS 15884 (Cl 4.6.2)
49	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ALTERNATING CURRENT DIRECT CONNECTED STATIC PREPAYMENT METERS FOR ACTIVE ENERGY(CLASS 1 & 2)	Test of Meter Constant	IS 15884 (Cl. 4.6.5)
50	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ALTERNATING CURRENT DIRECT CONNECTED STATIC PREPAYMENT METERS FOR ACTIVE ENERGY(CLASS 1 & 2)	Test of No-Load Condition	IS 15884 (Cl 5.6.3)
51	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ALTERNATING CURRENT DIRECT CONNECTED STATIC PREPAYMENT METERS FOR ACTIVE ENERGY(CLASS 1 & 2)	Test of Power Consumption	IS 15884 (Cl 5.4.1)
52	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ALTERNATING CURRENT DIRECT CONNECTED STATIC PREPAYMENT METERS FOR ACTIVE ENERGY(CLASS 1 & 2)	Test of power consumption	IS 15884 (Cl 5.4.1)
53	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ALTERNATING CURRENT DIRECT CONNECTED STATIC PREPAYMENT METERS FOR ACTIVE ENERGY(CLASS 1 & 2)	Test of repeatability of error	IS 15884 (Cl 5.6.7)
54	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ALTERNATING CURRENT DIRECT CONNECTED STATIC PREPAYMENT METERS FOR ACTIVE ENERGY(CLASS 1 & 2)	Test of Starting Condition	IS 15884 (Cl 5.6.4)

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55	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ALTERNATING CURRENT DIRECT CONNECTED STATIC PREPAYMENT METERS FOR ACTIVE ENERGY(CLASS 1 & 2)	Test on Limits of Error	IS 15884 (Cl 4.6.1)