National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MGVCL HI-TECH LABORATORY, 66 KV VIDYUT NAGAR S/S COMPOUND O P ROAD, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5952 **Page No** 1 of 6

Validity 04/09/2022 to 03/09/2024 **Last Amended on** 05/11/2022

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	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	AC Voltage Test	IS 14697
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	AC Voltage Test	IS 16444 (Part 2)
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Initial Startup of the Meter	IS 14697
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Initial Startup of the Meter	IS 16444 (Part 2)
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Insulation Resistance	IS 14697
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Insulation Resistance	IS 16444 (Part 2)
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Limits of Error	IS 14697
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Limits of Error	IS 16444 (Part 2)
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	No Load Condition / Running with No Load	IS 14697
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	No Load Condition / Running with No Load	IS 16444 (Part 2)

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11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Influence Quantities: Frequency Variation	IS 14697
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Influence Quantities: Frequency Variation	IS 16444 (Part 2)
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Influence Quantities: Rev. Phase Sequence	IS 14697
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Influence Quantities: Rev. Phase Sequence	IS 16444 (Part 2)
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Influence Quantities: Voltage Unbalance	IS 16444 (Part 2)
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Influence Quantities: Voltage Unbalance	IS 14697
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Influence Quantities: Voltage Variation	IS 14697
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Influence Quantities: Voltage Variation	IS 16444 (Part 2)
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Influence Quantities: Wave form 10% of 3rd harmonics in current	IS 14697
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Influence Quantities: Wave form: 10% of 3rd harmonics in current	IS 16444 (Part 2)
21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Meter constant	IS 14697

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22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Meter constant	IS 16444 (Part 2)
23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Power Consumption / Power Loss in Current Circuit	IS 14697
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Power Consumption / Power Loss in Current Circuit	IS 16444 (Part 2)
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Power Consumption / Power Loss in Voltage Circuit	IS 14697
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Power Consumption / Power Loss in Voltage Circuit	IS 14697
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Power Consumption / Power Loss in Voltage Circuit	IS 16444 (Part 2)
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Power Consumption / Power Loss in Voltage Circuit	IS 16444 (Part 2)
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Repeatability of Error	IS 14697
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test of Repeatability of Error	IS 16444 (Part 2)
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test on Starting Condition	IS 14697
32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 0.2s, 0.5s & 1.0s)	Test on Starting Condition	IS 16444 (Part 2)

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33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Influence Quantities: Wave form: 10% of 3rd harmonics in current	IS 16444 (Part 1)
34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	AC Voltage Test	IS 13779
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	AC Voltage Test	IS 16444 (Part 1)
36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Initial Startup of the Meter	IS 13779
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Initial Startup of the Meter	IS 16444 (Part 1)
38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Insulation Resistance	IS 13779
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Limits of Error	IS 13779
40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Energy Meter (Class 1.0 & 2.0)	Limits of Error	IS 16444 (Part 1)
41	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	No Load Condition / Running with No Load	IS 13779
42	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Energy Meter (Class 1.0 & 2.0)	No Load Condition / Running with No Load	IS 16444 (Part 1)
43	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Influence Quantities: Frequency Variation	IS 13779

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44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Influence Quantities: Frequency Variation	IS 16444 (Part 1)
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Influence Quantities: Rev. Phase Sequence	IS 13779
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Influence Quantities: Rev. Phase Sequence	IS 16444 (Part 1)
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Influence Quantities: Voltage Unbalance	IS 16444 (Part 1)
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Influence Quantities: Voltage Unbalance	IS 13779
49	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Influence Quantities: Voltage Variation	IS 13779
50	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Influence Quantities: Voltage Variation	IS 16444 (Part 1)
51	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Influence Quantities: Wave form: 10% of 3rd harmonics in current	IS 13779
52	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Meter constant	IS 13779
53	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Energy Meter (Class 1.0 & 2.0)	Test of Meter constant	IS 16444 (Part 1)
54	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Power Consumption / Power Loss in Current Circuit	IS 13779

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55	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Power Consumption / Power Loss in Current Circuit	IS 16444 (Part 1)
56	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Power Consumption / Power Loss in Voltage Circuit	IS 13779
57	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Power Consumption / Power Loss in Voltage Circuit	IS 13779
58	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Power Consumption / Power Loss in Voltage Circuit	IS 16444 (Part 1)
59	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Power Consumption / Power Loss in Voltage Circuit	IS 16444 (Part 1)
60	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Repeatability of Error	IS 13779
61	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test of Repeatability of Error	IS 16444 (Part 1)
62	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test on Starting Condition	IS 13779
63	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER (Class 1.0 & 2.0)	Test on Starting Condition	IS 16444 (Part 1)
64	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC ENERGY METER(Class 1.0 & 2.0)	Insulation Resistance	IS 16444 (Part 1)