National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PGVCL METER HI-TECH LABORATORY, PASCHIM GUJARAT VIJ CO. LTD., DUDHSAGAR ROAD, RAJKOT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 21/07/2022 to 20/07/2024 **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	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	AC Voltage Test	IS 16444 (Part 1)
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	Initial Startup of the Meter	IS 16444 (Part 1)
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	Insulation Resistance	IS 16444 (Part 1)
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	Limits of Error	IS 16444 (Part 1)
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	Meter Constant	IS 16444 (Part 1)
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	No Load Condition	IS 16444 (Part 1)
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	Repeatability of error	IS 16444 (Part 1)
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	Starting Condition	IS 16444 (Part 1)
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Influence Quantities 1) Voltage Variation 2) Frequency Variation 3) Rev. Phase Sequence 4) Wave form: 10% of 3rd harmonics in current 5) Voltage Unbalance	IS 16444 (Part 1)
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Power Consumption	IS 16444 (Part 1)

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11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	AC Voltage Test	IS 16444 (Part 2)
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Initial Startup of the Meter	IS 16444 (Part 2)
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Insulation Resistance	IS 16444 (Part 2)
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Meter Constant	IS 16444 (Part 2)
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	No Load Condition	IS 16444 (Part 2)
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Repeatability of error	IS 16444 (Part 2)
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Starting Condition	16444 (Part 2)
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Test of Influence Quantities 1) Voltage Variation 2) Frequency Variation 3) Rev. Phase Sequence 4) Wave form: 10% of 3rd harmonics in current 5) Voltage Unbalance	IS 16444 (Part 2)
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. 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)
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S	Limits of Error	IS 16444 (Part 2)

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21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Accuracy class 1 and 2)	AC Voltage Test	IS 13779
22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Accuracy class 1 and 2	Initial Startup of the Meter	IS 13779
23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Accuracy class 1 and 2)	Insulation Resistance	IS 13779
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Accuracy class 1 and 2)	Limits of Errors	IS 13779
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Accuracy class 1 and 2)	Meter Constant	IS 13779
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Accuracy class 1 and 2)	No load Condition	IS 13779
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Accuracy class 1 and 2)	Repeatability of errors	IS 13779
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Accuracy class 1 and 2)	Starting Condition	IS 13779
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Accuracy class 1 and 2)	Test of Influence Quantities 1) Voltage Variation 2) Frequency Variation 3) Rev. Phase Sequence 4) Wave form: 10% of 3rd harmonics in current 5) Voltage Unbalance	IS 13779
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Accuracy class 1 and 2)	Test of Power Consumption	IS 13779

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31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Class 0.2s, 0.5s and 1s)	AC Voltage test	IS 14697
32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Class 0.2s, 0.5s and 1s)	Initial Startup of the Meter	IS 14697
33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Class 0.2s, 0.5s and 1s)	Insulation Resistance	IS 14697
34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Class 0.2s, 0.5s and 1s)	Limits of Errors	IS 14697
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Class 0.2s, 0.5s and 1s)	Meter Constant	IS 14697
36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Class 0.2s, 0.5s and 1s)	No Load Condition	IS 14697
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Class 0.2s, 0.5s and 1s)	Power Consumption	IS 14697
38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Class 0.2s, 0.5s and 1s)	Repeatability of Errors	IS 14697
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Class 0.2s, 0.5s and 1s)	Starting Condition	IS 14697
40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Watt-hour meters (Class 0.2s, 0.5s and 1s)	Test of Influence Quantities 1) Voltage Variation 2) Frequency Variation 3) Rev. Phase Sequence 4) Wave form: 10% of 3rd harmonics in current 5) Voltage Unbalance	IS 14697
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential transformer	Power frequency dry withstand test on primary winding	Withdrawn Standard IS 3156 (Part-1)

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42	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformer	Power-frequency voltage withstand tests on primary terminals	IS 16227 (Part 1 & Part 3)
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformer	Power-frequency voltage withstand tests on secondary terminals	IS 16227 (Part 1 & Part 3)
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformer	Tests for phase displacement for measuring voltage transformers	IS 16227 (Part 3)
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformer	Tests for voltage ratio error for measuring voltage transformers	IS 16224 (Part-3)
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformer	Verification of markings	IS 16227 (Part 1 & Part 3)
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformer/ 11 kV CT PT Combined Unit	Power-frequency voltage withstand tests on primary terminals	IS 16227 (Part 4)
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformer/ 11 kV CT PT Combined Unit	Power-frequency voltage withstand tests on secondary terminals	IS 16227 (Part 4)
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformer/ 11 kV CT PT Combined Unit	Tests for phase displacement for measuring voltage transformers	IS 16227 (Part 4)
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformer/ 11 kV CT PT Combined Unit	Tests for ratio error for measuring voltage transformers	IS 16227 (Part 4)
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformer/ 11 kV CT PT Combined Unit	Verification of markings	IS 16444 (Part 4)
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformers	Determination of errors according to the requirements of appropriate accuracy class (Accuracy test for phase angle error)	Withdrawn Standard IS 3156 (Part-2)
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential transformers	Determination of errors according to the requirements of appropriate accuracy class (Accuracy test for ratio error)	Withdrawn Standard IS 3156 (Part-2)
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformers	Induced over voltage withstand test	Withdrawn Standard IS 3156 (Part-1)
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformers	Power frequency dry withstand test on secondary winding	Withdrawn Standard IS 3156 (Part-1)

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56	ELECTRICAL- INDUCTORS & TRANSFORMERS	11 kV Potential Transformers	Verification of terminal marking and polarity	Withdrawn Standard IS 3156 (Part-1)
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (CTR 10/5 to 2500/5)	Determination of the instrument security factor (FS) of measuring current transformers	IS 16227 (Part 2)
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (CTR 10/5 to 2500/5)	Inter-turn overvoltage test	IS 16227 (Part 1)
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (CTR 10/5 to 2500/5)	Power-frequency voltage withstand tests on primary terminals	IS 16227 (Part 1 & Part 2)
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (CTR 10/5 to 2500/5)	Power-frequency voltage withstand tests on secondary terminals	IS 16227 (Part 1 & Part 2)
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (CTR 10/5 to 2500/5)	Test for phase displacement of measuring current Transformer	IS 16227 (Part 2)
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (CTR 10/5 to 2500/5)	Test for ratio error of measuring current Transformer	IS 16227 (Part 2)
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (CTR 10/5 to 2500/5)	Verification of markings	IS 16227 (Part 1 & Part 2)
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (CTR 10/5 to 2500/5)/ CT PT Combined Unit (CTR 10/5 to 2500/5)	Determination of the instrument security factor (FS) of measuring current transformers	IS 16227 (Part 4)
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (CTR 10/5 to 2500/5)/ CT PT Combined Unit (CTR 10/5 to 2500/5)	Inter-turn overvoltage test	IS 16227 (Part 4)
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (CTR 10/5 to 2500/5)/ CT PT Combined Unit (CTR 10/5 to 2500/5)	Power-frequency voltage withstand tests on primary terminals	IS 16227 (Part 4)
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (CTR 10/5 to 2500/5)/ CT PT Combined Unit (CTR 10/5 to 2500/5)	Power-frequency voltage withstand tests on secondary terminals	IS 16227 (Part 4)
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (CTR 10/5 to 2500/5)/CT PT Combined Unit (CTR 10/5 to 2500/5)	Test for phase displacement of measuring current Transformer	IS 16227
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (CTR 10/5 to 2500/5)/CT PT Combined Unit (CTR 10/5 to 2500/5)	Test for ratio error and phase displacement of measuring current Transformer	IS 16227 (Part 4)
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer/CT PT Combined Unit	Verification of markings	IS 16227 (Part 4)

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71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers (CTR 10/5 to 2500/5)	Determination of errors according to the requirements of appropriate accuracy class (Accuracy test for phase angle error)	Withdrawn Standard IS 2705 (Part-2)
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers (CTR 10/5 to 2500/5)	Determination of errors according to the requirements of appropriate accuracy class (Accuracy test for ratio error)	Withdrawn Standard IS 2705 (Part-2)
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers (CTR 10/5 to 2500/5)	Instrument Security Current Test	Withdrawn Standard IS 2705 (Part-2)
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers (CTR 10/5 to 2500/5)	Over-voltage inter-turn test	Withdrawn standard IS 2705 (Part-1)
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers (CTR 10/5 to 2500/5)	Power frequency dry withstand test on primary winding	Withdrawn Standard IS 2705 (Part-1)
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers (CTR 10/5 to 2500/5)	Power frequency dry withstand test on secondary winding	Withdrawn Standard IS 2705 (Part-1)
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers (CTR 10/5 to 2500/5)	Verification of terminal marking and polarity	Withdrawn Standard IS 2705 (Part-1)