National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QA LAB, SINHAL UDYOG, KH NO.-82/1/4, GALI NO. 1, MUNDKA UDYOG NAGAR, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9418 **Page No** 1 of 5

Validity 13/04/2021 to 12/04/2023 **Last Amended on** 25/11/2021

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, single/three phase, Class 0.2 S, 0.5 S and 1.0 S	Test of Meter Constant	IS 16444 (Part 2),Cl. No. 6.12
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, single/three phase, Class 0.2 S, 0.5 S and 1.0 S	AC High voltage Test	IS 16444 (Part 2) Cl. No. 6.10.6, Part 2
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, single/three phase, Class 0.2 S, 0.5 S and 1.0 S	Insulation Resistance Test	IS 16444 (Part 2), Cl. No. 6.10.6
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, single/three phase, Class 0.2 S, 0.5 S and 1.0 S	Test of Limits of Error	IS 16444 (Part 2),Cl. No. 6.12
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, single/three phase, Class 0.2 S, 0.5 S and 1.0 S	Test of No-Load Condition	IS 16444 (Part 2),Cl. No. 6.12
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, single/three phase, Class 0.2 S, 0.5 S and 1.0 S	Test of Power Consumption	IS 16444 (Part 2),Cl. No. 6.10.1
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, single/three phase, Class 0.2 S, 0.5 S and 1.0 S	Test of Repeatability of Error	IS 16444 (Part 2),Cl. No. 6.12
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, single/three phase, Class 0.2 S, 0.5 S and 1.0 S	Test of Starting Condition	IS 16444 (Part 2),Cl. No. 6.12
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Direct Connected Watthour Smart Meter, single/three phase, Class 1 and 2	AC High voltage Test	IS 16444 (Part 1) Cl. No. 6.10.6
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Direct Connected Watthour Smart Meter, single/three phase, Class 1 and 2	Insulation Test	IS 16444 (Part 1) Cl. No. 6.10.6

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11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Direct Connected Watthour Smart Meter, single/three phase, Class 1 and 2	Test of Limits of Error	IS 16444 (Part 1) Cl.No. 6.12
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Direct Connected Watthour Smart Meter, single/three phase, Class 1 and 2	Test of Meter Constant	IS 16444 (Part 1) Cl.No. 6.12
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Direct Connected Watthour Smart Meter, single/three phase, Class 1 and 2	Test of No-Load Condition	IS 16444 (Part 1) Cl.No. 6.12
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Direct Connected Watthour Smart Meter, single/three phase, Class 1 and 2	Test of Power Consumption	IS 16444 (Part 1), Cl.No. 6.12
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Direct Connected Watthour Smart Meter, single/three phase, Class 1 and 2	Test of Repeatability of Error	IS 16444 (Part 1),Cl.No. 6.12
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Direct Connected Watthour Smart Meter, single/three phase, Class 1 and 2	Test of Starting Condition	IS 16444 (Part 1), Cl. No. 6.12
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Electrical Energy Meters for Active, Reactive and Apparent Energy, single/three phase, Class 0.2S,0.5Sand 1.0S	Insulation Resistance Test	CBIP 325 Cl 5.4.6.4
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Electrical Energy Meters for Active, Reactive and Apparent Energy, single/three phase, Class 0.2S,0.5Sand 1.0S	High Voltage Breakdown Test test	CBIP 325, Cl. No. 5.4.6.3
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Electrical Energy Meters for Active, Reactive and Apparent Energy, single/three phase, Class 0.2S,0.5Sand 1.0S	Test of Limits of Error	CBIP 325, Cl. No. 5.6.8
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Electrical Energy Meters for Active, Reactive and Apparent Energy, single/three phase, Class 0.2S,0.5Sand 1.0S	Test of Meter Constant	CBIP 325, Cl. No. 5.6.6
21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Electrical Energy Meters for Active, Reactive and Apparent Energy, single/three phase, Class 0.2S,0.5Sand 1.0S	Test of No-Load Condition	CBIP 325, Cl. No. 5.6.4

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22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Electrical Energy Meters for Active, Reactive and Apparent Energy, single/three phase, Class 0.2S,0.5Sand 1.0S	Test of Power Consumption	CBIP 325, Cl. No. 5.4.1
23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Electrical Energy Meters for Active, Reactive and Apparent Energy, single/three phase, Class 0.2S,0.5Sand 1.0S	Test of Repeatability of Error	CBIP 325, Cl. No. 5.6.9
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Electrical Energy Meters for Active, Reactive and Apparent Energy, single/three phase, Class 0.2S,0.5Sand 1.0S	Test of Starting Condition	CBIP 325, Cl. No. 5.6.5
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Transformer Operated Watthour and Var-hour Meters, single/three phase, Class 0.2 S and 0.5 S	AC High Voltage Test	IS 14697:1999, Cl. No. 12.7.6.3, Reaffirmed:
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Transformer Operated Watthour and Var-hour Meters, single/three phase, Class 0.2 S and 0.5 S	Insulation Resistance Test	IS 14697:1999, Cl. No. 12.7.6.4, Reaffirmed
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Transformer Operated Watthour and Var-hour Meters, single/three phase, Class 0.2 S and 0.5 S	Test of Limits of Error	IS 14697, Cl. No. 11.1
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Transformer Operated Watthour and Var-hour Meters, single/three phase, Class 0.2 S and 0.5 S	Test of Meter Constant	IS 14697, Cl. No. 12.14
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Transformer Operated Watthour and Var-hour Meters, single/three phase, Class 0.2 S and 0.5 S	Test of No-Load Condition	IS 14697, Cl. No. 12.12
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Transformer Operated Watthour and Var-hour Meters, single/three phase, Class 0.2 S and 0.5 S	Test of Power Consumption	IS 14697, Cl. No. 12.7.1
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Transformer Operated Watthour and Var-hour Meters, single/three phase, Class 0.2 S and 0.5 S	Test of Repeatability of Error	IS 14697, Cl. No. 12.16
32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac Static Transformer Operated Watthour and Var-hour Meters, single/three phase, Class 0.2 S and 0.5 S	Test of Starting Condition	IS 14697, Cl. No. 12.13

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33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt Hour Meter single/three phase (Class 1 & 2)	AC High voltage Test	IS 13779, Cl. No. 12.7.6.3
34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt Hour Meter single/three phase (Class 1 & 2)	Insulation Test	IS 13779,Cl.no 12.7.6.4
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt Hour Meter single/three phase (Class 1 & 2)	Test of Limits of Error	IS 13779, Cl. no. 11.1
36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt Hour Meter single/three phase (Class 1 & 2)	Test of Meter Constant	IS 13779, Cl. No. 12.14
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt Hour Meter single/three phase (Class 1 & 2)	Test of No-Load Condition	IS 13779, Cl. no. 12.13
38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt Hour Meter single/three phase (Class 1 & 2)	Test of Power Consumption	IS 13779, Cl. No. 12.7.1
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt Hour Meter single/three phase (Class 1 & 2)	Test of Repeatability of Error	IS 13779,Cl. no.12.17
40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt Hour Meter single/three phase (Class 1 & 2)	Test of Starting Condition	IS 13779, Cl. no. 12.14
41	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Alternating Current Direct Connected Static Prepayment Meters for Active Energy, single/three phase,(Class 1 and 2)	AC High voltage Test	IS 15884, Cl No. 5.4.6.3
42	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Alternating Current Direct Connected Static Prepayment Meters for Active Energy, single/three phase,(Class 1 and 2)	Insulation Test	IS 15884, Cl. No, 5.4.6.4
43	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Alternating Current Direct Connected Static Prepayment Meters for Active Energy, single/three phase,(Class 1 and 2)	Test of Limits of Error	IS 15884, Cl.No. 4.6.1

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44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Alternating Current Direct Connected Static Prepayment Meters for Active Energy, single/three phase,(Class 1 and 2)	Test of Meter Constant	IS 15884,Cl No. 5.6.5
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Alternating Current Direct Connected Static Prepayment Meters for Active Energy, single/three phase,(Class 1 and 2)	Test of No-Load Condition	IS 15884:2010, Cl. No. 5.6.3
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Alternating Current Direct Connected Static Prepayment Meters for Active Energy, single/three phase,(Class 1 and 2)	Test of Power Consumption	IS 15884:2010, Cl. No. 5.4.1
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Alternating Current Direct Connected Static Prepayment Meters for Active Energy, single/three phase,(Class 1 and 2)	Test of Repeatability of Error	IS 15884, Cl.No. 5.6.7
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Alternating Current Direct Connected Static Prepayment Meters for Active Energy, single/three phase,(Class 1 and 2)	Test of Starting Condition	IS 15884, Cl. No. 5.6.4