



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TANGEDCO TESTING LABORATORY, 129, WALLAJAH ROAD, CHENNAI,
TAMIL NADU, INDIA

**Accreditation
Standard**

ISO/IEC 17025:2017

Certificate Number

TC-10971

Page No

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Validity

06/09/2024 to 05/09/2026

**Last Amended
on**

09/09/2024

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 Testing				
1	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	Limits of Error	IS 16444(Part 1) (Clause 6.12)
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	Limits of Error and Interpretation of Test Results	IS 16444 (Part-1)(Clause 6.12)
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	Meter Constant	IS 16444 (Part-1)(Clause 6.12)
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	No Load Test	IS 16444(Part-1) (Clause 6.12)
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	Repeatability of Error	IS 16444(Part-1) (Clause 6.12)
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	Starting Condition	IS 16444(Part-1) (Clause 6.12)
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Influence Quantities - 10% of 3rd Harmonics in Current	IS 16444 (Part-1) (Clause 6.12)
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Influence Quantities - Frequency Variation	IS 16444 (Part-1)(Clause 6.12)
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Influence Quantities - Reversed Phase Sequence	IS 16444(Part-1) (Clause 6.12)
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Influence Quantities - Voltage Unbalance	IS 16444 (Part-1)(Clause 6.12)
11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Influence Quantities - Voltage Variation	IS 16444 (Part-1)(Clause 6.12)



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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	Limits of Error	IS 16444 (Part 2)(Clause 6.12)
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	Limits of error and Interpretation of Test Results	IS 16444 (Part 2)(Clause 6.12)
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)(Clause 6.12)
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 Test	IS 16444 (Part 2)(Clause 6.12)
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) (Clause 6.12)
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	IS 16444 (Part 2)(Clause 6.12)
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 - 10% of 3rd Harmonics in Current	IS 16444 (Part 2)(Clause 6.12)
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 Influence Quantities - Frequency Variation	IS 16444 (Part 2)(Clause 6.12)
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	Test of Influence Quantities - Reversed Phase Sequence	IS 16444 (Part 2)(Clause 6.12)
21	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 - Voltage Unbalance	IS 16444 (Part 2)(Clause 6.12)
22	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 - Voltage Variation	IS 16444 (Part 2)(Clause 6.12)



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23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Limits of Error	IS 13779 (Clause 11.1)
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Limits of Error and Interpretation of Test Results	IS 13779 (Clause 12.16)
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Meter Constant	IS 13779 (Clause 12.15)
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	No Load Test	IS 13779 (Clause 12.13)
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Repeatability of Error	IS 13779 (Clause 12.17)
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Starting Condition	IS 13779 (Clause 12.14)
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Test of Influence Quantities - 10% of 3rd Harmonics in Current	IS 13779 (Clause 11.1, 11.2 & 12.11)
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Test of Influence Quantities - Frequency Variation	IS 13779 (Clause 11.1, 11.2 & 12.11)
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Test of Influence Quantities - Reversed Phase Sequence	IS 13779 (Clause 11.1, 11.2 & 12.11)
32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Test of Influence Quantities - Voltage Unbalance	IS 13779 (Clause 11.1, 11.2 & 12.11)
33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Test of Influence Quantities - Voltage Variation	IS 13779 (Clause 11.1, 11.2 & 12.11)



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34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	15-Minute Block Average Frequency Measurement Test	CBIP No.:325 (Clause 6.1 (c)(i))
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	Limits of Error	IS 14697 (Clause 11.1)
36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	Limits of Error and Interpretation of Test results	IS 14697 (Clause 12.15)
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	Meter Constant	IS 14697 (Clause 12.14)
38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	No Load Test	IS 14697 (Clause 12.12)
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	Reactive Energy Registration - Verification Test during Voltage High ($V > 103\%$ and Voltage Low (V	CBIP No.:325 (Clause 6.1 (c) (iv & v))
40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	Repeatability of Error	IS 14697 (Clause 12.16)
41	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	Starting Condition	IS 14697 (Clause 12.13)
42	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	Test of Influence Quantities - 10% of 3rd Harmonics in Current	IS 14697 (Clause 11.1, 11.2 & 12.10)
43	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	Test of Influence Quantities - Frequency Variation	IS 14697 (Clause 11.1, 11.2 & 12.10)
44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	Test of Influence Quantities - Reversed Phase Sequence	IS 14697 (Clause 11.1, 11.2 & 12.10)



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45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	Test of Influence Quantities - Voltage Unbalance	IS 14697 (Clause 11.1, 11.2 & 12.10)
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	Test of Influence Quantities - Voltage Variation	IS 14697 (Clause 11.1, 11.2 & 12.10)