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** 1 of 5

Validity 06/09/2022 to 05/09/2024 **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	Limits of Error and Interpretation of Test Results	IS 16444 (Clause 6.12)
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	Limits of Error	IS 16444 (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 (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 (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 (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 (Clause 6.12)
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Influence of Supply Voltage	IS 16444 (Clause 6.10.2)
8	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 (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 - Frequency Variation	IS 16444 (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 - Reversed Phase Sequence	IS 16444 (Clause 6.12)

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Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-10971 **Page No** 2 of 5
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11	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 (Clause 6.12)
12	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 (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	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	Limits of error and Interpretation of Test Results	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	Meter Constant	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	No Load Test	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	Repeatability of Error	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	Starting Condition	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 of Supply Voltage	IS 16444 (Part 2, Clause 6.10.2)
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	Test of Influence Quantities - 10% of 3rd Harmonics in Current	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 - Frequency Variation	IS 16444 (Part 2, Clause 6.12)

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Laboratory Name : TANGEDCO TESTING LABORATORY, 129, WALLAJAH ROAD, CHENNAI, TAMIL NADU, INDIA
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Certificate Number TC-10971 **Page No** 3 of 5
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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 - Reversed Phase Sequence	IS 16444 (Part 2, Clause 6.12)
23	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)
24	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)
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Limits of Error	IS 13779 (Clause 11.1)
26	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)
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Meter Constant	IS 13779 (Clause 12.15)
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	No Load Test	IS 13779 (Clause 12.13)
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Repeatability of Error	IS 13779 (Clause 12.17)
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Starting Condition	IS 13779 (Clause 12.14)
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Energy Meter of Class 1 and 2	Test of Influence of Supply Voltage	IS 13779 (Clause 12.7.2)
32	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)

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Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-10971 **Page No** 4 of 5
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33	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)
34	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)
35	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)
36	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)
37	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 6.9 (c)(i))
38	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)
39	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)
40	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)
41	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)
42	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))
43	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)

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44	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)
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Energy Meter of Class 0.2S, 0.5S and 1S	Test of Influence of Supply Voltage	IS 14697 (Clause 12.7.2)
46	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)
47	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)
48	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)
49	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)
50	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)