



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARGANAS (N), WEST BENGAL, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-5637	<b>Page No</b>	1 of 43
<b>Validity</b>	14/03/2023 to 13/03/2025	<b>Last Amended on</b>	04/05/2023

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- CELLS & BATTERIES	Battery	Acid Retention Capacity Test on Separators	Clause no. 12.7 of IS 15549
2	ELECTRICAL- CELLS & BATTERIES	Battery	Air Pressure Test	Clause no. 7.15 of RDSO IRS : S : 88
3	ELECTRICAL- CELLS & BATTERIES	Battery	Ampere-hour and watt-hour efficiency tests	Clause no. 10.10 of IS 1652
4	ELECTRICAL- CELLS & BATTERIES	Battery	Ampere-hour and watt-hour efficiency tests	Clause no. 11.8 of IS 13369
5	ELECTRICAL- CELLS & BATTERIES	Battery	Ampere-hour and watt-hour efficiency tests	Clause no. 12.4 and 12.5 of IS 15549
6	ELECTRICAL- CELLS & BATTERIES	Battery	Ampere-hour and watt-hour efficiency tests	Clause no. 12.9 of IS 1651
7	ELECTRICAL- CELLS & BATTERIES	Battery	Ampere-hour and watt-hour efficiency tests	Clause no. 7.8 of RDSO IRS : S: 88
8	ELECTRICAL- CELLS & BATTERIES	Battery	Capacity	Clause no. 12.1 and 12.2 of IS 15549
9	ELECTRICAL- CELLS & BATTERIES	Battery	Capacity Test	Clause no. 8.1 of IS 16270
10	ELECTRICAL- CELLS & BATTERIES	Battery	Cycling Endurance in Photovoltaic Application	Clause no. 8.4 of IS 16270
11	ELECTRICAL- CELLS & BATTERIES	Battery	Endurance and Life Test	Clause no. 7.7 & 7.10 of RDSO IRS : S : 88
12	ELECTRICAL- CELLS & BATTERIES	Battery	Endurance Life Cycle Test	Clause no. 12.10 of IS 15549
13	ELECTRICAL- CELLS & BATTERIES	Battery	Endurance Test	Clause no. 10.9 of IS 1652
14	ELECTRICAL- CELLS & BATTERIES	Battery	Endurance Test	Clause no. 11.7 of IS 13369
15	ELECTRICAL- CELLS & BATTERIES	Battery	Endurance Test	Clause no. 12.8 of IS 1651
16	ELECTRICAL- CELLS & BATTERIES	Battery	Endurance Test	Clause no. 8.2 of IS 16270
17	ELECTRICAL- CELLS & BATTERIES	Battery	Equilibrium Float Current Test	Clause no. 11.10 of IS 13369
18	ELECTRICAL- CELLS & BATTERIES	Battery	Equilibrium Float Current Test	Clause no. 7.13 of RDSO IRS : S : 88



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19	ELECTRICAL- CELLS & BATTERIES	Battery	Internal Resistance	Clause no. 10.14 of IS 1652
20	ELECTRICAL- CELLS & BATTERIES	Battery	Loss of Water Test	Clause no. 10.12 of IS 1652
21	ELECTRICAL- CELLS & BATTERIES	Battery	Short Circuit Current	Clause no. 12.13 of IS 1651
22	ELECTRICAL- CELLS & BATTERIES	Battery	Sulphation Test	Clause no. 7.14 of RDSO IRS : S : 88
23	ELECTRICAL- CELLS & BATTERIES	Battery	Sulphation Test	Clause no. 8.5 of IS 16270
24	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Capacity	Clause no. 10.6 of IS 1652
25	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Capacity	Clause no. 11.5 of IS 13369
26	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Capacity	Clause no. 12.5 of IS 1651
27	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Capacity	Clause no. 7.5 of RDSO IRS : S : 88
28	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage (Retention of Charge)	Clause no. 10.8 of IS 1652
29	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage (Retention of Charge)	Clause no. 11.6 of IS 13369
30	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage (Retention of Charge)	Clause no. 12.6 of IS 15549
31	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage (Retention of Charge)	Clause no. 12.7 of IS 1651
32	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage (Retention of Charge)	Clause no. 7.6 & 7.11 of RDSO IRS : S : 88
33	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage (Retention of Charge)	Clause no. 8.3 of IS 16270
34	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Suitability of Floating Battery Operation	Clause no. 10.13 of IS 1652
35	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Suitability of Floating Battery Operation	Clause no. 12.12 of IS 1651
36	ELECTRICAL- CELLS & BATTERIES	Battery	Verification of dimensions	Clause no. 11.4 of IS 13369
37	ELECTRICAL- CELLS & BATTERIES	Battery	Verification of dimensions	Clause no. 12.4 of IS 1651



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38	ELECTRICAL- CELLS & BATTERIES	Battery	Verification of dimensions	Clause no. 6 & Table 2 of IS 1652
39	ELECTRICAL- CELLS & BATTERIES	Battery	Verification of dimensions	Clause no. 7.4 of RDSO IRS : S : 88/2004
40	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 11.9 of IS 13369
41	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 12.11 of IS 1651
42	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 7.12 of RDSO IRS : S : 88
43	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 8.6 of IS 16270
44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS ( Class 0.2S and 0.5S) AND VAR-HOUR METERS ( Class 0.2S ,0.5S and 1S)	Damp Heat cyclic Test	Cl. No.: 12.6.3 & 6 of IS 14697
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS ( Class 0.2S and 0.5S) AND VAR-HOUR METERS ( Class 0.2S ,0.5S and 1S)	Dry Heat Test	Cl. No.: 12.6.1 of IS 14697
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS ( Class 0.2S and 0.5S) AND VAR-HOUR METERS ( Class 0.2S ,0.5S and 1S)	Fast Transient burst test	Cl. No.: 12.8.4 of IS 14697
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS ( Class 0.2S and 0.5S) AND VAR-HOUR METERS ( Class 0.2S ,0.5S and 1S)	Impulse Voltage Test	Cl. No.: 12.7.6.2 & 6 of IS 14697
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS ( Class 0.2S and 0.5S) AND VAR-HOUR METERS ( Class 0.2S ,0.5S and 1S)	Influence of short time over currents	Cl. No.: 12.7.3 of IS 14697
49	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS ( Class 0.2S and 0.5S) AND VAR-HOUR METERS ( Class 0.2S ,0.5S and 1S)	Influence of supply voltage	Cl. No.: 12.7.2 of IS 14697
50	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS ( Class 0.2S and 0.5S) AND VAR-HOUR METERS ( Class 0.2S ,0.5S and 1S)	Insulation Test	Cl. No.: 12.7.6.4 & 6 of IS 14697