



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63,
SECTOR V, SALT LAKE, KOLKATA, 24 PARGANAS (N), WEST BENGAL,
INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637

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Validity 14/03/2025 to 13/03/2029

Last Amended on 05/06/2025

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- CELLS & BATTERIES	Battery	Alternate Rated Discharge	Clause No. 10.7 of IS 1652
2	ELECTRICAL- CELLS & BATTERIES	Battery	Alternative Rates of Test Discharges	Clause No. 12.6 of IS 1651
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 Test	Clause no. 8.1 of IS 16270
9	ELECTRICAL- CELLS & BATTERIES	Battery	Capacity Test at other Discharge Rates	Clause No. 12.3 of IS 15549
10	ELECTRICAL- CELLS & BATTERIES	Battery	Charge Retention	Clause no. 8.3 of IS 16270
11	ELECTRICAL- CELLS & BATTERIES	Battery	Cycling Endurance in Photovoltaic Application	Clause no. 8.4 of IS 16270
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. 7.7 of RDSO IRS:S:88
17	ELECTRICAL- CELLS & BATTERIES	Battery	Endurance Test	Clause no. 8.2 of IS 16270
18	ELECTRICAL- CELLS & BATTERIES	Battery	Equilibrium Float Current Test	Clause no. 11.10 of IS 13369
19	ELECTRICAL- CELLS & BATTERIES	Battery	Equilibrium Float Current Test	Clause no. 7.13 of RDSO IRS : S : 88



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20	ELECTRICAL- CELLS & BATTERIES	Battery	Internal Resistance and Short Circuit Test	Clause no. 10.14 of IS 1652
21	ELECTRICAL- CELLS & BATTERIES	Battery	Life Test	Clause No. 7.10 of RDSO IRS: S: 88
22	ELECTRICAL- CELLS & BATTERIES	Battery	Loss of Water Test	Clause no. 10.12 of IS 1652
23	ELECTRICAL- CELLS & BATTERIES	Battery	Short Circuit Current and Internal Resistance Test	Clause no. 12.13 of IS 1651
24	ELECTRICAL- CELLS & BATTERIES	Battery	Storage Test	Clause No. 7.11 of RDSO IRS: S: 88
25	ELECTRICAL- CELLS & BATTERIES	Battery	Sulphation Test	Clause no. 7.14 of RDSO IRS : S : 88
26	ELECTRICAL- CELLS & BATTERIES	Battery	Sulphation Test	Clause no. 8.5 of IS 16270
27	ELECTRICAL- CELLS & BATTERIES	Battery	Test for C1 Capacity	Clause no. 12.2 of IS 15549
28	ELECTRICAL- CELLS & BATTERIES	Battery	Test for C10 Capacity	Clause no. 12.1 of IS 15549
29	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Capacity	Clause no. 10.6 of IS 1652
30	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Capacity	Clause no. 11.5 of IS 13369
31	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Capacity	Clause no. 12.5 of IS 1651
32	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Capacity	Clause no. 7.5 of RDSO IRS : S : 88
33	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage	Clause no. 10.8 of IS 1652
34	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage	Clause no. 11.6 of IS 13369
35	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage	Clause no. 12.7 of IS 1651
36	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity Storage	Clause no. 7.6 of RDSO IRS : S : 88
37	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Retention of Charge	Clause no. 12.6 of IS 15549
38	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Voltage During Discharge	Clause No. 10.11 of IS 1652
39	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Voltage During Discharge	Clause No. 12.10 of IS 1651



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40	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Voltage During Discharge	Clause No. 7.9 of IRS: S: 88
41	ELECTRICAL- CELLS & BATTERIES	Battery	Test of Suitability of Floating Battery Operation	Clause no. 10.13 of IS 1652
42	ELECTRICAL- CELLS & BATTERIES	Battery	Test of Suitability of Floating Battery Operation	Clause no. 12.12 of IS 1651
43	ELECTRICAL- CELLS & BATTERIES	Battery	Verification of dimension	Clause no. 12.4 of IS 1651
44	ELECTRICAL- CELLS & BATTERIES	Battery	Verification of dimensions	Clause no. 11.4 of IS 13369
45	ELECTRICAL- CELLS & BATTERIES	Battery	Verification of dimensions	Clause no. 6 & Table 2 of IS 1652
46	ELECTRICAL- CELLS & BATTERIES	Battery	Verification of dimensions	Clause no. 7.4 of RDSO IRS : S :88
47	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss on float charge	Clause no. 8.6 of IS 16270
48	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 11.9 of IS 13369
49	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 12.11 of IS 1651
50	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 7.12 of RDSO IRS : S : 88
51	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	a.c High Voltage Test	CL. No. 6.10.6 of IS 16444 (CL. No. 12.7.6.3 of IS 13779)
52	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	Insulation Resistance Test	CL. No. 6.10.6 of IS 16444 (CL. No. 12.7.6.4 of IS 13779)
53	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Meter Constant	CL. No. 6.12 of IS 16444 (CL. No. 12.15 of IS 13779)
54	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of no-load condition	CL. No. 6.12 of IS 16444 (CL. No. 12.13 of IS 13779)
55	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Repeatability of error	CL. No. 6.12 of IS 16444 (CL. No. 12.17 of IS 13779)