



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CSIR-BATTERY PERFORMANCE TESTING AND EVALUATION CENTRE
(CSIR-BPTEC), CENTRAL ELECTROCHEMICAL RESEARCH INSTITUTE
(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH), CSIR-
CECRICAMPUS, COLLEGE ROAD, KARAUKUDI, KARAUKUDI, SIVAGANGA,
TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-12066

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Validity 02/08/2025 to 01/08/2029

Last Amended on 28/08/2025

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	Advanced Chemistry Cells	CALCULATION OF GRAVIMETRIC ENERGY DENSITY	IS 17882
2	ELECTRICAL- CELLS & BATTERIES	ADVANCED CHEMISTRY CELLS	ENERGY CAPACITY MEASUREMENT (in Wh)	IS 17882
3	ELECTRICAL- CELLS & BATTERIES	Advanced Chemistry Cells	TEST METHOD FOR CYCLE LIFE MEASUREMENT	IS 17882
4	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Gas emission intensity test	IS C 8702-1
5	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	High-Rate Discharge Capacity (Dry Charged Battery)	IS 7372
6	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	High-Rate Discharge Test at Normal Temperature for Batteries for Heavy Duty Application	IS 7372
7	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Life test	IRS: S 88/2004
8	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Loss of capacity test on storage	IRS: S 88/2004
9	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Loss of water	IRS: S 88/2004
10	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Overcharge Endurance Test	IS 14257
11	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Storage (for Dry Charged Batteries)	IS 7372
12	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Storage test	IRS: S 88/2004
13	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Storage Test	IS 7372
14	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Sulphation test	IRS: S 88/2004
15	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Test for capacity	IRS: S 88/2004
16	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Test for capacity	IRS: S 93/96
17	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Test for Capacity	IS 13369
18	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Test for charge retention	IRS: S 93/96
19	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Test for Dry-Charged Battery	IS 14257



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20	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Test for gas recombination efficiency	IRS:S 93/96
21	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Test for Retention of Charge	IS 15549
22	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Test for voltage during discharge	IRS: S 88/2004
23	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Test for Voltage During Discharge	IS 1651
24	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Voltage during discharge	IRS:S 93/96
25	ELECTRICAL- CELLS & BATTERIES	Cells & Batteries	Water Consumption Test	IS 14257
26	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries	Capacity Test	IS 16270
27	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries	High rate discharge characteristics	JIS C 8702-1
28	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Ampere-hour and Watt-hour Efficiency Tests	IS 13369
29	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Ampere-Hour and Watt-Hour Efficiency Tests	IS 1651
30	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Capacity	JIS C 8702-1
31	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Capacity recovery at a battery temperature of 25 °C with a time-limited fast charge	IEC 63193
32	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Capacity Test at Other Discharge Rates	IS 15549
33	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Cycle life with repetitive discharges at 40 °C to 50 % DoD of rated capacity	IEC 63193
34	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Endurance Test	IS 13369
35	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	High-rate constant current capacity at 25 °C	IEC 63193
36	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	High-Rate Discharge Test at Normal Temperature	IS 7372
37	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Life Cycle Test	IS 14257
38	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Life Test	IS 7372



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39	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Loss of Capacity on Storage	IS 13369
40	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Maximum permissible current	JIS C 8702-1
41	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Reserve Capacity Test	IS 14257
42	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Resistance to Overcharge Test	IS 7372
43	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Short Circuit Current and Internal Resistance Test	IS 1651
44	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Storage characteristics	JIS C 8702-1
45	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test for C 10 Capacity	IS 15549
46	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Test for capacity	IS 1651
47	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Test for Oxygen Recombination Efficiency	IS 15549
48	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Test of Suitability of Floating Battery Operation	IS 1651
49	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test on Separators	IS 15549
50	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Water Loss Test	IS 1651
51	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Watt Hour Efficiency	IS 15549:
52	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Retention of Charge Test	IS 7372
53	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	AH & WH efficiency test	IRS:S 93/96
54	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	AH /WH efficiency test	IRS: S 88/2004
55	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Air pressure test	IRS: S 88/2004
56	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Air Pressure Test	IS 7372
57	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Air pressure test on containers consisting of finished cell / battery	IRS: S 88/2004
58	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Alternative Rates of Test Discharges	IS 1651



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59	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Ampere Hour Efficiency	IS 15549
60	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Capacity (5 h Rate) Test	IS 14257
61	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Capacity determination with the 2 h rate current at 25 °C	IEC 63193
62	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Capacity determination with the 3 h rate current at 25 °C	IEC 63193
63	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Capacity Test	IS 7372
64	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Charge acceptance characteristics after deep discharge	JIS C 8702-1
65	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Charge Acceptance Test	IS 14257
66	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Charge retention during storage at 40 °C	IEC 63193
67	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Charge Retention Test	IS 14257
68	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Cycle life with repetitive discharges at 25 °C to 90 % DoD of the rated capacity	IEC 63193
69	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Cycle Service Endurance	JIS C 8702-1
70	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Dynamic driving range at 25 °C	IEC 63193
71	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Electrolyte Retention Test	IS 14257
72	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Endurance in trickle application	JIS C 8702-1
73	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Endurance in trickle application at 40 deg C	JIS C 8702-1
74	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Endurance Life Cycle Test	IS 15549
75	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Endurance test	IRS: S 88/2004
76	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Endurance test	IRS:S 93/96
77	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Endurance Test	IS 1651



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78	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Endurance under short circuit	IRS:S 93/96
79	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Equilibrium float current	IRS: S 88/2004
80	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Gas emission recombining characteristics	JIS C 8702-1
81	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Light Load Endurance (LLE) Test	IS 14257
82	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Loss of Capacity on Storage	IS 1651
83	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Robustness to Fastening Test	IS 14257
84	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Strength of Terminal Test	IS 14257
85	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test for CI Capacity	IS 15549
86	ELECTRICAL- CELLS & BATTERIES	Lead Acid, Ni-Cd, Lithium ion Batteries	Charge Retention Test	IS 16270
87	ELECTRICAL- CELLS & BATTERIES	Lead Acid, Ni-Cd, Lithium ion Batteries	Cycle Endurance in Photovoltaic Application (Extreme Conditions)	IS 16270
88	ELECTRICAL- CELLS & BATTERIES	Lead Acid, Ni-Cd, Lithium ion Batteries	Endurance Test	IS 16270
89	ELECTRICAL- CELLS & BATTERIES	Lead Acid, Ni-Cd, Lithium ion Batteries	Sulphation Test (Applicable for Lead Acid Batteries Only)	IS 16270
90	ELECTRICAL- CELLS & BATTERIES	Lead Acid, Ni-Cd, Lithium ion Batteries	Water Loss Test (Valid for Flooded Lead Acid Batteries Only)	IS 16270
91	ELECTRICAL- CELLS & BATTERIES	Lithium ion batteries	6.3.1 Discharge performance at +25 °C	IEC 62620
92	ELECTRICAL- CELLS & BATTERIES	Lithium ion Batteries	6.3.3 High rate permissible current	IEC 62620
93	ELECTRICAL- CELLS & BATTERIES	Lithium ion batteries	6.4 Charge (capacity) retention and recovery	IEC 62620
94	ELECTRICAL- CELLS & BATTERIES	Lithium ion batteries	6.6.1 Endurance in cycles	IEC 62620
95	ELECTRICAL- CELLS & BATTERIES	Lithium ion batteries	6.6.2 Endurance in storage at constant voltage	IEC 62620