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-CECRI CAMPUS, COLLEGE ROAD, KARAIKKUDI, SIVAGANGA, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 22/06/2021 to 21/06/2023 **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- CELLS & BATTERIES	NDP and HDP Cells	Test for capacity	IS 1651
2	ELECTRICAL- CELLS & BATTERIES	Batteries	Capacity Test	IS 16270
3	ELECTRICAL- CELLS & BATTERIES	Batteries	Charge Retention Test	IS 16270
4	ELECTRICAL- CELLS & BATTERIES	Batteries	Cycle Endurance in Photovoltaic Application (Extreme Conditions)	IS 16270
5	ELECTRICAL- CELLS & BATTERIES	Batteries	Endurance Test	IS 16270
6	ELECTRICAL- CELLS & BATTERIES	Batteries	Sulphation Test (Applicable for Lead Acid Batteries Only)	IS 16270
7	ELECTRICAL- CELLS & BATTERIES	Batteries	Voltage during discharge	IRS:S 93/96
8	ELECTRICAL- CELLS & BATTERIES	Batteries	Water Loss Test (Valid for Flooded Lead Acid Batteries Only)	IS 16270
9	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Ampere-hour and Watt-hour Efficiency Tests	IS 13369
10	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Ampere-Hour and Watt-Hour Efficiency Tests	IS 1651
11	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Capacity	JIS C 8702-1:2009
12	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Capacity recovery at a battery temperature of 25 °C with a time-limited fast charge	IEC 63193
13	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Capacity Test at Other Discharge Rates	IS 15549
14	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Cycle life with repetitive discharges at 40 °C to 50 % DoD of rated capacity	IEC 63193
15	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Endurance Test	IS 13369
16	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	High rate discharge charecteristics	JIS C 8702-1:2009
17	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	High-rate constant current capacity at 25 °C	IEC 63193

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18	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	High-Rate Discharge Test at Normal Temperature	IS 7372
19	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Life Cycle Test	IS 14257
20	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Life Test	IS 7372
21	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Loss of Capacity on Storage	IS 13369
22	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Maximum permissible current	JIS C 8702-1:2009
23	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Reserve Capacity Test	IS 14257
24	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Resistance to Overcharge Test	IS 7372
25	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Short Circuit Current and Internal Resistance Test	IS 1651
26	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Storage charecteristics	JIS C 8702-1:2009
27	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test for C 10 Capficity	IS 15549
28	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test for Oxygen Recombination Efficiency	IS 15549
29	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test for Vent Seal Operation	IS 15549
30	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test of Suitability of Floating Battery Operation	IS 1651
31	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test on Separators	IS 15549
32	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Water Loss Test	IS 1651
33	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Watt Hour Efficiency	IS 15549:
34	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Retention of Charge Test	IS 7372
35	ELECTRICAL- CELLS & BATTERIES	Lead acid Batteries	AH & WH efficiency test	IRS:S 93/96
36	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	AH /WH efficiency test	IRS: S 88/2004

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37	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Air pressure test	IRS: S 88/2004
38	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Air Pressure Test	IS 7372
39	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Air pressure test on containers consisting of finished cell / battery	IRS: S 88/2004
40	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Alternative Rates of Test Discharges	IS 1651
41	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Ampere Hour Efficiency	IS 15549
42	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Capacity (5 h Rate) Test	IS 14257
43	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Capacity determination with the 2 h rate current at 25 °C	IEC 63193
44	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Capacity determination with the 3 h rate current at 25 °C	IEC 63193
45	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Capacity Test	IS 7372
46	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Charge acceptance charecteristics after deep discharge	JIS C 8702-1:2009
47	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Charge Acceptance Test	IS 14257
48	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Charge retention during storage at 40 °C	IEC 63193
49	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Charge Retention Test	IS 14257
50	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Cycle life with repetitive discharges at 25 °C to 90 % DoD of the rated capacity	IEC 63193
51	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Cycle Service Endurance	JIS C 8702-1:2009
52	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Dynamic driving range at 25 °C	IEC 63193
53	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Electrolyte Retention Test	IS 14257
54	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Endurance in trickle application	JIS C 8702-1:2009

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55	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Endurance in trickle application at 40 deg C	JIS C 8702-1:2009
56	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Endurance Life Cycle Test	IS 15549
57	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Endurance test	IRS: S 88/2004
58	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Endurance test	IRS:S 93/96
59	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Endurance Test	IS 1651
60	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Endurance under short circuit	IRS:S 93/96
61	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Equilibrium float current	IRS: S 88/2004
62	ELECTRICAL- CELLS & BATTERIES	Lead acid batteries	Gas emission recombinating charecteristics	JIS C 8702-1:2009
63	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Gass emission intensity test	JIS C 8702-1:2009
64	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	High-Rate Discharge Capacity (Dry Charged Battery)	IS 7372
65	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	High-Rate Discharge Test at Normal Temperature for Batteries for Heavy Duty Application	IS 7372
66	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Life test	IRS: S 88/2004
67	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Light Load Endurance (LLE) Test	IS 14257
68	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Loss of Capacity on Storage	IS 1651
69	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Loss of capacity test on storage	IRS: S 88/2004
70	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Loss of water	IRS: S 88/2004
71	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Operation of vent valve	JIS C 8702-1:2009
72	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Overcharge Endurance Test	IS 14257

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73	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Robustness to Fastening Test	IS 14257
74	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Storage (for Dry Charged Batteries)	IS 7372
75	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Storage test	IRS: S 88/2004
76	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Storage Test	IS 7372
77	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Strength of Terminal Test	IS 14257
78	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Sulphation test	IRS: S 88/2004
79	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Test for capacity	IRS: S 88/2004
80	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Test for capacity	IRS:S 93/96
81	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test for Capacity	IS 13369
82	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Test for charge retention	IRS:S 93/96
83	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test for Cl Capacity	IS 15549
84	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test for Dry-Charged Battery	IS 14257
85	ELECTRICAL- CELLS & BATTERIES	Lead Acid Batteries	Test for gas recombination efficiency	IRS:S 93/96
86	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test for Retention of Charge	IS 15549
87	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test for voltage during discharge	IRS: S 88/2004
88	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Test for Voltage During Discharge	IS 1651
89	ELECTRICAL- CELLS & BATTERIES	lead acid batteries	Water Consumption Test	IS 14257