National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : R & D CENTRE LABORATORY, EXIDE INDUSTRIES LIMITED, EXIDE INDUSTRIES LTD. 217, NAZRUL ISLAM AVENUE , P.O. DESHBANDHU NAGAR, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 01/12/2022 to 30/11/2024 **Last Amended on** 10/02/2023

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	Lead -Acid Storahe Batteries for Motor Vehicles	High Rate Discharge	JIS D5301 Cl. No. 9.5.3
2	ELECTRICAL- CELLS & BATTERIES	Lead acid storage batteries for Motor Cycle, Auto Rickshaws and similar vehicles.	Capacity	AIS 048 Cl. No. A1-1
3	ELECTRICAL- CELLS & BATTERIES	Lead acid storage batteries for Motor Cycle, Auto Rickshaws and similar vehicles.	Capacity	IS 13568 Cl. No. 7.9
4	ELECTRICAL- CELLS & BATTERIES	Lead acid storage batteries for Motor Cycle, Auto Rickshaws and similar vehicles.	Capacity	JIS D5302 Cl. No. 8.3.2
5	ELECTRICAL- CELLS & BATTERIES	Lead acid storage batteries for Motor Cycle, Auto Rickshaws and similar vehicles.	Dimension	IS 13568 Cl. No. 7.7
6	ELECTRICAL- CELLS & BATTERIES	Lead acid storage batteries for Motor Cycle, Auto Rickshaws and similar vehicles.	Dimension	JIS D5302 Cl. No. 7
7	ELECTRICAL- CELLS & BATTERIES	Lead acid storage batteries for Motor Cycle, Auto Rickshaws and similar vehicles.	Life Test	IS 13568 Cl. No. 7.12
8	ELECTRICAL- CELLS & BATTERIES	Lead acid storage batteries for Motor Cycle, Auto Rickshaws and similar vehicles.	Life Test	JIS D5302 (Informative Reference 1 & 2)
9	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Capacity	JIS D5301 Cl. No. 9.5.2
10	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Capacity	IEC60095-1 Cl. No. 7.1.2
11	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Capacity	IS 14257 Cl. No. 9.3.4
12	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	CCA	IEC60095-1 Cl. No. 7.1.1
13	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	CCA	JIS D5301 Cl. No. 9.5.3
14	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Charge Acceptance	IEC60095-1 Cl. No. 7.1.3
15	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Charge Acceptance	IS 14257 Cl. No. 9.3.6
16	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Charge Acceptance	JIS D5301 Cl. No. 9.5.4
17	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Dimension	IS 14257 Cl. No. 9.3.2
18	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Dimension	JIS D5301 Cl. No. 9.5.1

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19	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Endurance Test	IEC 60095-1 Cl. No. 7.1.5
20	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	HRD Test	IS14257 Cl. No. 9.3.5
21	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Life Cycle Test	JIS D5301 Cl. No. 9.5.5
22	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Life Test	IS 14257 Cl. No. 9.3.7
23	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Overcharge Endurance	IS 14257 Cl. No. 9.3.9
24	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Water Loss Test	IEC60095-1 Cl. No. 7.1.6
25	ELECTRICAL- CELLS & BATTERIES	Lead Acid storage batteries for Motor Vehicles	Water Loss Test	JIS D5301 Cl. No. 2 , Annex-1
26	ELECTRICAL- CELLS & BATTERIES	Lead Acid Traction Batteries	Capacity	IEC 60254-1 Cl. No. 4.2
27	ELECTRICAL- CELLS & BATTERIES	Lead Acid Traction Batteries	Capacity	IS 5154 Cl. No. 7.10
28	ELECTRICAL- CELLS & BATTERIES	Lead Acid Traction Batteries	Charge retention	IEC 60254-1 Cl. No. 4.3
29	ELECTRICAL- CELLS & BATTERIES	Lead Acid Traction Batteries	Cyclic Endurance	IEC 60254-1 Cl. No. 4.5
30	ELECTRICAL- CELLS & BATTERIES	Lead Acid Traction Batteries	Dimension	IS 5154 Cl. No. 7.7
31	ELECTRICAL- CELLS & BATTERIES	Secondary Lead-Acid Cells & Batteries for Photovoltaic Energy System	Capacity	IEC 61427 Cl. No. 8.1
32	ELECTRICAL- CELLS & BATTERIES	Secondary Lead-Acid Cells & Batteries for Photovoltaic Energy System	Life Test	IEC 61427 Cl. No. 8.4
33	ELECTRICAL- CELLS & BATTERIES	Secondary Lead-Acid Cells & Batteries for Photovoltaic Energy System	Retention of Charge	IEC 61427 Cl. No. 8.3
34	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Batteries - Vented Type	Capacity Test	IEC 60896-11 Cl. No. 7.0 & 14.0
35	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Batteries - Vented Type	Capacity Test	IS13369 Cl. No. 11.5
36	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Batteries - Vented Type	Dimension	IS13369 Cl. No. 11.4
37	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Batteries - Vented Type	Efficiency Test	IS13369 Cl. No. 11.8

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38	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Batteries - Vented Type	Endurance Test	IEC 60896-11 Cl. No. 16
39	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Batteries - Vented Type	Endurance Test	IS 13369 Cl. No. 11.7
40	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Batteries - Vented Type	Overcharge Endurance Test	IEC 60896-11 Cl. No. 17
41	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Batteries - Vented Type	Retention Of Charge	IEC 60896-11 Cl. No. 18
42	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Batteries - Vented Type	Retention of Charge	IS 13369 Cl. No. 11.6
43	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Batteries - Vented Type	Short Circuit & Internal Resistance Test	IEC 60896-11 Cl. No. 19
44	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Retention of Charge	IS 6304 Cl. No. 8.7
45	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	AH & WH efficiency	IS 1651 Cl. No. 12.9
46	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Capacity Test	IS 1651 Cl. No. 12.5 & 12.10
47	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Capacity Test	IS 1652 Cl. No. 10.6 & 10.11
48	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Capacity Test	IS 6304 Cl. No. 8.6
49	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Dimension	IS 1651 Cl. No. 12.4
50	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Dimension	IS 1652 Cl. No. 6.1
51	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Dimension	IS 6304 Cl. No. 6.0
52	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Efficiency Test	IS 1651 Cl. No. 12.9
53	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Efficiency Test	IS 1652 Cl. No. 10.10
54	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Efficiency Test	IS 6304 Cl. No. 8.8
55	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Endurance Test	IS 1651 Cl. No. 12.8
56	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Endurance Test	IS 1652 Cl. No. 10.9

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57	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Endurance Test	IS 6304 Cl. No. 8.9
58	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Retention of Charge	IS 1651 Cl. No. 12.7
59	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Retention of Charge	IS 1652 Cl. No. 10.8
60	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Short Circuit & Internal Resistance	IS 1651 Cl. No. 12.13
61	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Short Circuit & Internal Resistance	IS 1652 Cl. No. 10.14
62	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Water Loss Test	IS 1651 Cl. No. 12.11
63	ELECTRICAL- CELLS & BATTERIES	Stationary Lead-acid Cells & Batteries	Water Loss Test	IS 1652 Cl. No. 10.12
64	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated Lead-acid Battery	Capacity	IEC 60896-22 Cl. No. 6.11
65	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated Lead-acid Battery	Capacity	IEC60896-21 Cl. No. 6.11
66	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated Lead-acid Battery	Capacity	IS 15549 Cl. No. 12.1 , 12.2 & 12.3
67	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated Lead-acid Battery	Dimension	IS 15549 Cl. No. 11
68	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated Lead-acid Battery	Life Test	IS 15549 Cl. No. 12.10
69	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated Lead-acid Battery	Retention of Charge	IEC 60896-21 Cl. No. 18
70	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated Lead-acid Battery	Retention of Charge	IS 15549 Cl. No. 12.6
71	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated Lead-acid Battery	Retention of Charge during Storage	IEC 60896-21 Cl. No. 6.12
72	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated Lead-acid Battery	Retention of Charge during Storage	IEC 60896-22 Cl. No. 6.12