National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : EXIDE INDUSTRIES LIMITED (DEPARTMENT OF CHEMICAL & ELECTRICAL LABORATORY), 91, NEW CHORD ROAD, P.O ATHPUR, SHYAMNAGAR, BHATPARA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9611 **Page No** 1 of 4

Validity 18/06/2021 to 17/06/2023 **Last Amended on** 20/09/2021

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	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Cured Plate/ Grid/ Spine	Moisture	EIL/SHM/TPM/02
2	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Cured Plate/ Grid/ Spine	Residual Lead	EIL/SHM/TPM/02
3	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Sulfuric Acid	Acid Content (H2SO4)	IS 266
4	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Sulfuric Acid	Chlorides (as Cl)	IS 266
5	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Sulfuric Acid	Organic matter	IS 266
6	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Sulfuric Acid	Residue on Ignition	IS 266
7	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Sulfuric Acid	Specific Gravity	IS 266
8	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Alluminium (Al)	AS 4862
9	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Antimony (Sb)	AS 4862
10	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Arsenic (As)	AS 4862
11	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Bismuth (Bi)	AS 4862
12	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Cadmium(Cd)	AS 4862
13	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Calcium (Ca)	AS 4862
14	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Copper (Cu)	AS 4862
15	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Iron (Fe)	AS 4862
16	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Nickel (Ni)	AS 4862
17	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Selenium (Se)	AS 4862
18	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Silver (Ag)	AS 4862

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19	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Tellurium (Te)	AS 4862
20	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Tin (Sn)	AS 4862
21	CHEMICAL- METALS & ALLOYS	Lead Calcium Alloy	Zinc (Zn)	AS 4862
22	CHEMICAL- METALS & ALLOYS	Lead-Antimony Alloy	Antimony (Sb)	AS 4862
23	CHEMICAL- METALS & ALLOYS	Lead-Antimony Alloy	Arsenic (As)	AS 4862
24	CHEMICAL- METALS & ALLOYS	Lead-Antimony Alloy	Bismuth (Bi)	AS 4862
25	CHEMICAL- METALS & ALLOYS	Lead-Antimony Alloy	Cadmium (Cd)	AS 4862
26	CHEMICAL- METALS & ALLOYS	Lead-Antimony Alloy	Copper (Cu)	AS 4862
27	CHEMICAL- METALS & ALLOYS	Lead-Antimony Alloy	Iron (Fe)	AS 4862
28	CHEMICAL- METALS & ALLOYS	Lead-Antimony Alloy	Nickel (Ni)	AS 4862
29	CHEMICAL- METALS & ALLOYS	Lead-Antimony Alloy	Selenium (Se)	AS 4862
30	CHEMICAL- METALS & ALLOYS	Lead-Antimony Alloy	Silver (Ag)	AS 4862
31	CHEMICAL- METALS & ALLOYS	Lead-Antimony Alloy	Sulphur (S)	AS 4862
32	CHEMICAL- METALS & ALLOYS	Lead-Antimony Alloy	Tellurium (Te)	AS 4862
33	CHEMICAL- METALS & ALLOYS	Lead-Antimony Alloy	Tin (Sn)	AS 4862
34	CHEMICAL- METALS & ALLOYS	Lead-Antimony Alloy	Zinc (Zn)	AS 4862
35	CHEMICAL- METALS & ALLOYS	Pure Lead	Antimony (Sb)	AS 4862
36	CHEMICAL- METALS & ALLOYS	Pure Lead	Arsenic (As)	AS 4862
37	CHEMICAL- METALS & ALLOYS	Pure Lead	Bismuth (Bi)	AS 4862

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38	CHEMICAL- METALS & ALLOYS	Pure Lead	Cadmium (Cd)	AS 4862
39	CHEMICAL- METALS & ALLOYS	Pure Lead	Copper (Cu)	AS 4862
40	CHEMICAL- METALS & ALLOYS	Pure Lead	Iron (Fe)	AS 4862
41	CHEMICAL- METALS & ALLOYS	Pure Lead	Nickel (Ni)	AS 4862
42	CHEMICAL- METALS & ALLOYS	Pure Lead	Selenium (Se)	AS 4862
43	CHEMICAL- METALS & ALLOYS	Pure Lead	Silver (Ag)	AS 4862
44	CHEMICAL- METALS & ALLOYS	Pure Lead	Tellurium (Te)	AS 4862
45	CHEMICAL- METALS & ALLOYS	Pure Lead	Tin (Sn)	AS 4862
46	CHEMICAL- METALS & ALLOYS	Pure Lead	Zinc (Zn)	AS 4862
47	CHEMICAL- WATER	Water for Storage Batteries	Chlorides (as Cl)	IS 3025 (Part 32)
48	CHEMICAL- WATER	Water for Storage Batteries	Conductivity	IS 3025 (Part 14)
49	CHEMICAL- WATER	Water for Storage Batteries	Copper (as Cu)	IS 3025 (Part 2)
50	CHEMICAL- WATER	Water for Storage Batteries	Iron (as Fe)	IS 3025 (Part 2)
51	CHEMICAL- WATER	Water for Storage Batteries	Manganese (as Mn)	IS 3025 (Part 2)
52	CHEMICAL- WATER	Water for Storage Batteries	pH (at 25 °C)	IS 3025 (Part 11)
53	CHEMICAL- WATER	Water for Storage Batteries	Total Dissolve Solids	IS 3025 (Part 16)
54	CHEMICAL- WATER	Water for Storage Batteries	Total Hardness	IS 3025 (Part 21)
55	ELECTRICAL- CELLS & BATTERIES	2V-Plante' Cell	Ampere-hour and Watt-hour Efficiency Test	IS 1652 (Clause 10.10)
56	ELECTRICAL- CELLS & BATTERIES	2V-Plante' Cell	Capacity Test	IS 1652 (Clause 10.6)
57	ELECTRICAL- CELLS & BATTERIES	2V-Plante' Cell	Dimensional Verification	IS 1652 (Clause 6)
58	ELECTRICAL- CELLS & BATTERIES	2V-Plante' Cell	Endurance Test	IS 1652 (Clause 10.9)
59	ELECTRICAL- CELLS & BATTERIES	2V-Plante' Cell	Loss of Capacity on Storage/ Test for Retention of Charge	IS 1652 (Clause 10.8)

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60	ELECTRICAL- CELLS & BATTERIES	2V-Plante' Cell	Test for Voltage during Discharge	IS 1652 (Clause 10.11)
61	ELECTRICAL- CELLS & BATTERIES	2V-Plante' Cell	Verification of Marking	IS 1652 (Clause 7)
62	ELECTRICAL- CELLS & BATTERIES	2V-Tubular Cell	Ampere–hour and Watt-hour Efficiency Test	IS 1651 (Clause 12.9)
63	ELECTRICAL- CELLS & BATTERIES	2V-Tubular Cell	Capacity Test	IS 1651 (Clause 12.5)
64	ELECTRICAL- CELLS & BATTERIES	2V-Tubular Cell	Dimensional Verification	IS 1651 (Clause 7)
65	ELECTRICAL- CELLS & BATTERIES	2V-Tubular Cell	Endurance Test	IS 1651 (Clause 12.8)
66	ELECTRICAL- CELLS & BATTERIES	2V-Tubular Cell	Loss of Capacity on Storage/Test for Retention of Charge	IS 1651 (Clause 12.7)
67	ELECTRICAL- CELLS & BATTERIES	2V-Tubular Cell	Test for Voltage during Discharge	IS 1651 (Clause 12.10)
68	ELECTRICAL- CELLS & BATTERIES	2V-Tubular Cell	Verification of Marking	IS 1651 (Clause 8.1)