National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RITES, EASTERN REGION LABORATORY, 56, C.R.AVENUE (3 RD FLOOR), KOLKATA, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 20/03/2022 to 19/03/2024 **Last Amended on** 27/04/2022

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- METALLIC COATINGS & TREATMENT SOLUTIONS	Lead coating on Aluminium	Thickness of Lead Coating	IS 6848
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Tin coating on Iron, Steel, Nickel Alloys, Copper & Copper Alloys	Average Thickness of Tin Coating	IS 1359 (Annex-B)
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Iron & Steel Articles	Mass of Zinc Coating	IS 6745
4	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Iron & Steel Articles	Uniformity of Zinc Coating	IS 2633
5	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Copper	ASTM E-1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Copper	IS 504 (Part-3)
7	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Iron	ASTM E-1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Iron	IS 504 (Part-2)
9	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Magnesium	ASTM E-1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Manganese	ASTM E-1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Manganese	IS 504 (Part-5)
12	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Nickel	ASTM E-1251
13	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Silicon	ASTM E-1251
14	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Silicon	IS 504 (Part-1)
15	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Titanium	ASTM E-1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Zinc	ASTM E-1251
17	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Carbon	IS 12308 (Part-11)

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18	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Chromium	IS 12308 (Part-8)
19	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Manganese	IS 12308 (Part-10)
20	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Nickel	IS 12308 (Part-7)
21	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Phosphorous	IS 12308 (Part-5)
22	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Silicon	IS 12308 (Part-6)
23	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Aluminium	BS:EN-15079
24	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Copper	IS 7212
25	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Iron	BS:EN-15079
26	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Iron	IS 4027 (Part-8)
27	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Lead	BS:EN-15079
28	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Lead	IS 3187
29	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Manganese	BS:EN-15079
30	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Manganese	IS 3187
31	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Nickel	BS:EN-15079
32	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Nickel	IS 3685
33	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Phosphorous	BS:EN-15079
34	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Phosphorous	IS 4027 (Part-3)
35	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Silicon	BS:EN-15079
36	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Tin	BS:EN-15079

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37	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Tin	IS 4027 (Part 5)
38	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Zinc	BS:EN-15079
39	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloy	Zinc	IS 4027 (Part-6)
40	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Carbon	ASTM E- 415
41	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Carbon	IS 228 (Part-1)
42	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Chromium	ASTM E- 415
43	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Chromium	IS 228 (Part-6)
44	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Copper	ASTM E- 415
45	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Copper	IS 228 (Part-15)
46	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Manganese	ASTM E- 415
47	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Manganese	IS 228 (Part-2)
48	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Molybdenum	ASTM E-415
49	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Nickel	ASTM E- 415
50	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Nickel	IS 228 (Part-5)
51	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Phosphorous	ASTM E- 415
52	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Phosphorous	IS 228 (Part-3)
53	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Silicon	ASTM E- 415
54	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Silicon	IS 228 (Part-8)
55	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Sulphur	ASTM E- 415

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56	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Sulphur	IS 228 (Part-9)
57	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Low Alloy Steel	Vanadium	ASTM E- 415
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E-1086
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (Part-1)
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E-1086
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 228 (Part-6)
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E-1086
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E-1086
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 228 (Part-2)
65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E-1086
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E-1086
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 228 (Part-5)
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	ASTM E-1086
69	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	IS 228 (Part-3)
70	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E-1086
71	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 (Part-8)
72	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E-1086
73	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 228 (Part-9)
74	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	ASTM E-1086

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75	CHEMICAL- PAINTS & SURFACE COATING	Ready mixed and Synthetic Enamel	Consistency	IS 101 (Part-1/ Sec-5)
76	CHEMICAL- PAINTS & SURFACE COATING	Ready mixed and Synthetic Enamel	Dry Film Thickness	IS 101 (Part-3/ Sec-2)
77	CHEMICAL- PAINTS & SURFACE COATING	Ready mixed and Synthetic Enamel	Finish	IS 101 (Part-3/ Sec-4)
78	CHEMICAL- PAINTS & SURFACE COATING	Ready mixed and Synthetic Enamel	Flash point	IS 101 (Part-1/ Sec-6)
79	CHEMICAL- PAINTS & SURFACE COATING	Ready mixed and Synthetic Enamel	Flexibility and Adhesion (Type 1 Bend Test)	IS 101 (Part-5/ Sec-2)
80	CHEMICAL- PAINTS & SURFACE COATING	Ready mixed and Synthetic Enamel	Mass per ten liter	IS 101 (Part-1/ Sec-7)
81	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed and Synthetic Enamel	Non-volatile matter for ready mixed and Synthetic paints	IS 101 (Part-8/ Sec-2)
82	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed and Synthetic Enamel	Phthalic anhydride content	IS 101 (Part-8/ Sec-4)
83	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed and Synthetic Enamel	Pigment for ready mixed paints	IS 101 (Part-8/ Sec-2)
84	CHEMICAL- PAINTS & SURFACE COATING	Ready mixed and Synthetic Enamel	Scratch Hardness	IS 101 (Part-5/ Sec-2)
85	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber	Ash Content	IS 3400 (Part-22)
86	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber	Change in volume	IS 3400 (Part-6):
87	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber	Identification of Rubber(Natural/Synthetic)	IS 3400 (Part-22)
88	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric (Woven)	Color Fastness to Perspiration	IS/ISO 105 E04
89	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric(Woven)	Ash Content	IS 199
90	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric(Woven)	Color Fastness to Washing	IS/ISO 105-C 10 , Test C3
91	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric(Woven)	Color Fastness to washing	IS/ISO 105-C10 (Test-A)
92	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric(Woven)	Dimensional Change	IS 2977
93	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric(Woven)	Fatty Matter	IS 199

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94	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric(Woven)	Identification of Fiber	IS 667
95	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric(Woven)	pH Value	IS 1390
96	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric(Woven)	Scouring Loss	IS 1383
97	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric(Woven)	Starch	IS 199
98	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric(Woven)	Total Size	IS 199
99	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric(Woven)	Water soluble matter	IS 3456
100	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric(Woven)	Wool Content	IS 8476
101	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials/Products (Ferrous/Non-Ferrous)	Ultimate Tensile Strength (UTS)	IS 1608 Part 1
102	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials/Products (Ferrous/Non-Ferrous	% Elongation	IS 1608 Part 1
103	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials/Products (Ferrous/Non-Ferrous	% Reduction in Area	IS 1608 Part 1
104	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials/Products (Ferrous/Non-Ferrous)	Bend Test	IS 1599
105	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials/Products (Ferrous/Non-Ferrous)	Brinell Hardness (2.5/187.5)	IS 1500 (Part-1)
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials/Products (Ferrous/Non-Ferrous)	Brinell Hardness (10/3000)	IS 1500 (Part-1)
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials/Products (Ferrous/Non-Ferrous)	Rockwell Hardness, HRBW	IS 1586 (Part-1)
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials/Products (Ferrous/Non-Ferrous)	Rockwell Hardness, HRC	IS 1586 (Part-1)

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109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials/Products (Ferrous/Non-Ferrous)	Yield Strength	IS 1608 Part 1
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials/Products(Ferrous)	Shear Strength	IS 5242
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials/Products(Ferrous/Non-Ferrous)	0.2% Proof Stress	IS 1608 (Part-1)
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials/Products(Ferrous/Non-Ferrous)	Vickers Hardness	IS 1501 (Part-1)
113	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite flake by Form , Distribution & Size	IS 7754
114	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of decarburization	IS 6396
115	MECHANICAL-METALLOGRAPHY TEST	Steel	Grain Size	IS 4748
116	MECHANICAL-METALLOGRAPHY TEST	Steel	Measurement of case depth	IS 6416
117	MECHANICAL-METALLOGRAPHY TEST	Steel	Non-Metallic Inclusion Rating by Method A & B. Type A, B,C, D [Fine/Heavy]& DS ; 0.5 to 3.0	IS 4163
118	MECHANICAL-METALLOGRAPHY TEST	Steel/Cast Iron	Microstructure	ASM Handbook Volume 7& 9
119	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber	Accelerated Ageing	IS 3400 (Part-4)
120	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber	Compression Set	IS 3400 (Part-10/Sec-1):
121	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber	Density	IS 3400 (Part-9)
122	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber	Elongation	IS 3400 (Part-1):
123	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber	Hardness (Shore A)	IS 3400 (Part-23/ Sec-1)
124	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber	Tensile Strength	IS 3400 (Part-1)
125	MECHANICAL- TEXTILE MATERIALS	Finished Fabric(Woven)	Breaking Load	IS 1969 (Part-1)

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126	MECHANICAL- TEXTILE MATERIALS	Finished Fabric(Woven)	Ends (per dm)	IS 1963
127	MECHANICAL- TEXTILE MATERIALS	Finished Fabric(Woven)	Length and Width of Fabric	IS:1954
128	MECHANICAL- TEXTILE MATERIALS	Finished Fabric(Woven)	Mass	IS 1964
129	MECHANICAL- TEXTILE MATERIALS	Finished Fabric(Woven)	Moisture Content	IS 199
130	MECHANICAL- TEXTILE MATERIALS	Finished Fabric(Woven)	Picks (per dm)	IS 1963