National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MATERIAL TESTING LABORATORY, RIFLE FACTORY ISHAPORE, 24, PARAGANAS NORTH, ICHHAPUR DEFENCE ESTATE, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6586 **Page No** 1 of 6

Validity 13/07/2022 to 12/07/2024 **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	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Chrome Plating Solutions	Hexavalent Cr (as CrO3)	WI No. 6001401 Feb. 19
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Chrome Plating Solutions	Sulphate as H2SO4	WI No. 6001401 Feb.16
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Chrome Plating Solutions	Total Oxide	WI No. 6001401 Feb,16
4	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Chrome Plating Solutions	Trivalent Cr (as Cr2O3)	WI No. 6001401 Feb.16
5	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Phosphating Bath Solution	Iron Concentration	JSS 0465 : 01
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E 1251
13	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E 1251
14	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E 1251
15	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E 1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 1251

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17	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Aluminium	IS 8811
18	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Carbon	IS 8811
19	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Carbon	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Carbon	IS 228 (Part 1)
21	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Chromium	ASTM E350
22	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Chromium	ASTM E415
23	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Chromium	IS 8811
24	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Copper	ASTM E415
25	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Copper	IS 8811
26	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Manganese	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Manganese	IS 228 (Part 2)
28	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Manganese	IS 8811
29	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Molybdenum	IS 8811
30	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Molybdenum	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Nickel	ASTM E415
32	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Nickel	IS 228 (Part 5)
33	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Nickel	IS 8811
34	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Phosphorus	ASTM E350
35	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Phosphorus	ASTM E415

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36	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Phosphorus	IS 8811
37	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Silicon	ASTM E350
38	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Silicon	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Silicon	IS 8811
40	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Sulphur	ASTM E415
41	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Sulphur	IS 228 (Part 9)
42	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Sulphur	IS 8811
43	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Vanadium	ASTM E415
44	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Vanadium	IS 8811
45	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy steel	Aluminium	ASTM E415
46	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1086
47	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (Part 1)
48	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
49	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086
50	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 353
51	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
52	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
53	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
54	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E 1086

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55	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
56	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E 1086
57	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E 1086
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 228 (Part 5)
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 1086
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 350
65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E 1086
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
68	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	IS 228 (Part 1)
69	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	WI No. 6002400, December 18
70	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	ASTM E 352
71	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	WI No. 6002400 December 18
72	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	WI No. 6001001 March 19
73	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	WI No. 6002400, December 18

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74	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	WI No. 6002400 December 18
75	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	WI No. 6002400 December 18
76	CHEMICAL- METALS & ALLOYS	Tool Steel	Nickel	WI No. 6002400, December 18
77	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	WI No. 6002400, December 18
78	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	WI No. 6002400, December 18
79	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	WI No. 6002400, December 18
80	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	WI No. 6000801, March 19
81	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	WI No. 6002400, December 18
82	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	WI No. 6002400 December 18
83	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys & products	Tensile Test (Percentage Elongation)	IS 1608 (Part 1)
84	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloy & products	Brinell Hardness Test (HBW 2.5/ 187.5)	IS 1500 (Part 1)
85	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloy & products	Vickers Hardness Test (HV 30)	IS 1501 (Part 1)
86	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness Test (HRA)	IS 1586 (Part 1)
87	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness Test (HRC)	IS 1586 (Part 1)
88	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & products	Tensile Test (Percentage Reduction of Area)	IS 1608 (Part 1)
89	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (Ultimate Tensile Strength)	IS 1608 (Part 1)

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90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.2 % Proof Stress)	IS 1608 (Part 1)
91	MECHANICAL-METALLOGRAPHY TEST	Ferrous material , alloys & products	Determination of Grain Size	IS 4748
92	MECHANICAL-METALLOGRAPHY TEST	Ferrous material, alloys & products	Determination of Non Metallic Inclusion Rating / Content	IS 4163
93	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Case Depth measurement by microscopic method	IS 6416