National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	METALS & MINERALS TESTING LABORATORY, ICHAPUR SEALDANGA, SANTRAGACHI, HOWRAH, HOWRAH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6389	**Page No**	1 of 7
Validity	26/09/2021 to 25/09/2023	**Last Amended on**	17/11/2021

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- METALS & ALLOYS	Aluminium and its Alloys	Chromium	ASTM E1251
2	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Copper	ASTM E1251
3	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Iron	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Lead	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Magnesium	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Manganese	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Nickel	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Silicon	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Tin	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Titanium	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Zinc	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Aluminium	BS-EN 15079
13	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Antimony	BS-EN 15079
14	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Arsenic	BS EN 15079
15	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Iron	BS-EN 15079
16	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Lead	BS-EN 15079
17	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Manganese	BS-EN 15079
18	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Nickel	BS-EN 15079

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19	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Phosphorus	BS-EN 15079
20	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Silicon	BS-EN 15079
21	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Tin	BS-EN 15079
22	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Zinc	BS-EN 15079
23	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Carbon	ASTM E1086
24	CHEMICAL- METALS & ALLOYS	High Alloy steel	Carbon	IS 9879
25	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Chromium	ASTM E1086
26	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Chromium	IS 9879
27	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Cobalt	IS 9879
28	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Manganese	ASTM E1086
29	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Manganese	IS 9879
30	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Molybdenum	ASTM E1086
31	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Molybdenum	IS 9879
32	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Nickel	ASTM E1086
33	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Nickel	IS 9879
34	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Phosphorus	ASTM E1086
35	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Phosphorus	IS 9879
36	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Silicon	ASTM E1086
37	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Silicon	IS 9879

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38	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Sulphur	ASTM E1086
39	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Sulphur	IS 9879
40	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Titanium	IS 9879
41	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Tungsten	IS 9879
42	CHEMICAL- METALS & ALLOYS	High Alloy Steel	Vanadium	IS 9879
43	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Aluminium	ASTM E 2209
44	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Carbon	ASTM E 2209
45	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Chromium	ASTM E 2209
46	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Copper	ASTM E2209
47	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Manganese	ASTM E 2209
48	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Molybdenum	ASTM E 2209
49	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Nickel	ASTM E 2209
50	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Phosphorus	ASTM E 2209
51	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Silicon	ASTM E 2209
52	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Sulphur	ASTM E2209
53	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Aluminium	ASTM E415
54	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Aluminium	IS 8811
55	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Carbon	ASTM E415
56	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Carbon	IS 8811

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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
57	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Chromium	ASTM E415
58	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Chromium	IS 8811
59	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Copper	ASTM E415
60	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Copper	IS 8811
61	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Manganese	ASTM E415
62	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Manganese	IS 8811
63	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Molybdenum	ASTM E415
64	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Molybdenum	IS 8811
65	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Nickel	ASTM E415
66	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Nickel	IS 8811
67	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Phosphorus	ASTM E415
68	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Phosphorus	IS 8811
69	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Silicon	ASTM E 415
70	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Silicon	IS 8811
71	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Sulphur	ASTM E415
72	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Sulphur	IS 8811
73	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steels	Vanadium	ASTM E415
74	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low alloy steels	Vanadium	IS 8811
75	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086

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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
76	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
77	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
78	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
79	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	IS 9879
80	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
81	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
82	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
83	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
84	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
85	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
86	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
87	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
88	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
89	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
90	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	IS 9879
93	CHEMICAL- METALS & ALLOYS	Stainless steel	Tungsten	IS 9879
94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	IS 9879

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95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium and Copper	Rockwell Hardness 'C' Scale	IS 1586 Part-1
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum & Copper	% Elongation	IS 1608 Part-1
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	D-Shackle	Proof Load Test	IS/ISO 2415
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners Bolt, Stud & Screw	Proof Load Test	IS 1367 (Part-3)
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & Products (Steel, Stainless Steel, Alloy Steels)	% Elongation	IS 1608 Part-1
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & Products (Steel, Stainless Steel, Alloy Steels)	% R.A	IS 1608 Part-1
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & Products (Steel, Stainless Steel, Alloy Steels)	0.2% Proof stress	IS 1608 Part-1
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & Products (Steel, Stainless Steel, Alloy Steels)	Bend Test	IS 1599
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & Products (Steel, Stainless Steel, Alloy Steels)	Brinell Hardness HBW/10/3000	IS:1500 Part-1
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & Products (Steel, Stainless Steel, Alloy Steels)	Rockwell Hardness 'B' Scale (HRBW)	IS 1586 Part-1
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & Products (Steel, Stainless Steel, Alloy Steels)	Tensile Strength	IS 1608 Part-1
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & Products (Steel, Stainless Steel, Alloy Steels)	Y.S	IS 1608 Part-1
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous materials,alloys & Products (Aluminum & Copper)	% RA	IS 1608 Part-1
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nuts	Proof Load Test	IS 1367 (Part-6)

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109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non Ferrous materials,alloys & Products (Aluminum & Copper)	0.2% Proof Stress	IS 1608 Part-1
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non Ferrous materials,alloys & Products (Aluminum & Copper)	Bend Test	IS 1599
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non Ferrous materials,alloys & Products (Aluminum & Copper)	Brinell Hardness HBW/10/3000	IS 1500 Part-1
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non Ferrous materials,alloys & Products (Aluminum & Copper)	Tensile Strength	IS 1608 Part-1
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non Ferrous materials,alloys & Products (Aluminum & Copper)	Y.S	IS 1608 Part-1
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non Ferrous materials,alloys & Products Aluminum & Copper)	Rockwell Hardness 'B' Scale (HRBW)	IS 1586 Part-1
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Others (Fasteners)	Permanent Set Test	IS 3063
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Others (Fasteners)	Twist Test	IS 3063
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Rockwell Hardness 'C' Scale (HRC)	IS 1586 Part-1