National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : THE INDUSTRIAL DEVELOPMENT AND TESTING LABORATORY, CHATTERJEE SHED, MAKARDAH ROAD, SHANPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5240 **Page No** 1 of 19

Validity 28/08/2022 to 27/08/2024 **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
LOCATION 1-CHATTERJEE SHED, MAKARDAH ROAD, SHANPUR, HOWRAH, WEST BENGAL, INDIA Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Boron	ASTM E415
2	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Titanium	JIS G 1253
3	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Aluminium	ASTM E415
4	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Aluminium	IS 8811
5	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Aluminium	JIS G 1253
6	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Boron	IS 8811
7	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Boron	JIS G 1253
8	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Carbon	ASTM E415
9	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Carbon	IS 8811
10	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Carbon	JIS G 1253
11	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Chromium	ASTM E415
12	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Chromium	IS 8811
13	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Chromium	JIS G 1253
14	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Copper	ASTM E415
15	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Copper	IS 8811
16	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Copper	JIS G 1253
17	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon SteeL	Manganese	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Manganese	IS 8811

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19	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Manganese	JIS G 1253
20	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Molybdenum	ASTM E415
21	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Molybdenum	IS 8811
22	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Molybdenum	JIS G 1253
23	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Nickel	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Nickel	IS 8811
25	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Nickel	JIS G 1253
26	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Nitrogen	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Nitrogen	IS 228 (Part 23)
28	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Nitrogen	JIS G 1253
29	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Phosphorous	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Phosphorous	IS 8811
31	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Phosphorous	JIS G 1253
32	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Silicon	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Silicon	IS 8811
34	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Silicon	JIS G 1253
35	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Sulphur	ASTM E415
36	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Sulphur	IS 8811
37	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Sulphur	JIS G 1253

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38	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Titanium	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Titanium	IS 8811
40	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Vanadium	ASTM E415
41	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Vanadium	IS 8811
42	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel	Vanadium	JIS G 1253
43	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloy	Beryllium	ASTM E 1251
44	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloy	Chromium	ASTM E 1251
45	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloy	Copper	ASTM E 1251
46	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloy	Iron	ASTM E 1251
47	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloy	Lead	ASTM E 1251
48	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloy	Magnesium	ASTM E 1251
49	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloy	Manganese	ASTM E 1251
50	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloy	Nickel	ASTM E 1251
51	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloy	Silicon	ASTM E 1251
52	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloy	Tin	ASTM E 1251
53	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloy	Titanium	ASTM E 1251
54	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloy	Zinc	ASTM E 1251
55	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Carbon	ASTM E1086
56	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Carbon	IS 9879

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57	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Carbon	JIS G 1253
58	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Chromium	ASTM E1086
59	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Chromium	IS 9879
60	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Chromium	JIS G 1253
61	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Copper	ASTM E1086
62	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Copper	IS 9879
63	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Copper	JIS G 1253
64	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Manganese	ASTM E1086
65	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Manganese	IS 9879
66	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Manganese	JIS G 1253
67	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Molybdenum	ASTM E1086
68	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Molybdenum	IS 9879
69	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Molybdenum	JIS G 1253
70	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nickel	ASTM E1086
71	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nickel	IS 9879
72	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nickel	JIS G 1253
73	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Phosphorus	ASTM E1086
74	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Phosphorus	IS 9879
75	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Phosphorus	JIS G 1253

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76	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Silicon	ASTM E1086
77	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Silicon	IS 9879
78	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Silicon	JIS G 1253
79	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Sulphur	ASTM E1086
80	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Sulphur	IS 9879
81	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Sulphur	JIS G 1253
82	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Titanium	JIS G 1253
83	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Vanadium	JIS G 1253
84	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Carbon	ASTM E1999
85	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Carbon	IS 15338
86	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Carbon	JIS G 1253
87	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Chromium	ASTM E1999
88	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Chromium	IS 15338
89	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Chromium	JIS G 1253
90	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Copper	ASTM E1999
91	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Copper	IS 15338
92	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Copper	JIS G 1253
93	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Manganese	ASTM E1999
94	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Manganese	IS 15338

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95	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Manganese	JIS G 1253
96	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Molybdenum	ASTM E1999
97	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Molybdenum	IS 15338
98	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Molybdenum	JIS G 1253
99	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Nickel	ASTM E1999
100	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Nickel	IS 15338
101	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Nickel	JIS G 1253
102	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Phosphorus	ASTM E1999
103	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Phosphorus	IS 15338
104	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Phosphorus	JIS G 1253
105	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Silicon	ASTM E1999
106	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Silicon	IS 15338
107	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Silicon	JIS G 1253
108	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Sulphur	ASTM E1999
109	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Sulphur	IS 15338
110	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G Iron	Sulphur	JIS G 1253
111	CHEMICAL- METALS & ALLOYS	Copper Zinc Alloy / Brasses	Aluminium	BS EN 15079
112	CHEMICAL- METALS & ALLOYS	Copper Zinc Alloy / Brasses	Arsenic	BS EN 15079
113	CHEMICAL- METALS & ALLOYS	Copper Zinc Alloy / Brasses	Bismuth	BS EN 15079

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114	CHEMICAL- METALS & ALLOYS	Copper Zinc Alloy / Brasses	Iron	BS EN 15079
115	CHEMICAL- METALS & ALLOYS	Copper Zinc Alloy / Brasses	Lead	BS EN 15079
116	CHEMICAL- METALS & ALLOYS	Copper Zinc Alloy / Brasses	Manganese	BS EN 15079
117	CHEMICAL- METALS & ALLOYS	Copper Zinc Alloy / Brasses	Nickel	BS EN 15079
118	CHEMICAL- METALS & ALLOYS	Copper Zinc Alloy / Brasses	Phosphorus	BS EN 15079
119	CHEMICAL- METALS & ALLOYS	Copper Zinc Alloy / Brasses	Silicon	BS EN 15079
120	CHEMICAL- METALS & ALLOYS	Copper Zinc Alloy / Brasses	Sulphur	BS EN 15079
121	CHEMICAL- METALS & ALLOYS	Copper Zinc Alloy / Brasses	Tin	BS EN 15079
122	CHEMICAL- METALS & ALLOYS	Copper Zinc Alloy / Brasses	Zinc	BS EN 15079
123	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Aluminium	BS EN 15079
124	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Antimony	BS EN 15079
125	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Arsenic	BS EN 15079
126	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Bismuth	BS EN 15079
127	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Iron	BS EN 15079
128	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Lead	BS EN 15079
129	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Magnesium	BS EN 15079
130	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Manganese	BS EN 15079
131	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Nickel	BS EN 15079
132	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Phosphorous	BS EN 15079

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133	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Silicon	BS EN 15079
134	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Silver	BS EN 15079
135	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Sulphur	BS EN 15079
136	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Tin	BS EN 15079
137	CHEMICAL- METALS & ALLOYS	Copper-Nickel Alloys, Copper-Tin Alloys, Copper Aluminium Alloys & Copper-Nickel-Zinc Alloy.	Zinc	BS EN 15079
138	CHEMICAL- METALS & ALLOYS	Pure Copper & Low Alloyed Copper	Aluminium	BS EN 15079
139	CHEMICAL- METALS & ALLOYS	Pure Copper & Low Alloyed Copper	Antimony	BS EN 15079
140	CHEMICAL- METALS & ALLOYS	Pure Copper & Low Alloyed Copper	Arsenic	BS EN 15079
141	CHEMICAL- METALS & ALLOYS	Pure Copper & Low Alloyed Copper	Bismuth	BS EN 15079
142	CHEMICAL- METALS & ALLOYS	Pure Copper & Low Alloyed Copper	Iron	BS EN 15079
143	CHEMICAL- METALS & ALLOYS	Pure Copper & Low Alloyed Copper	Lead	BS EN 15079
144	CHEMICAL- METALS & ALLOYS	Pure Copper & Low Alloyed Copper	Manganese	BS EN 15079
145	CHEMICAL- METALS & ALLOYS	Pure Copper & Low Alloyed Copper	Nickel	BS EN 15079
146	CHEMICAL- METALS & ALLOYS	Pure Copper & Low Alloyed Copper	Phosphorous	BS EN 15079
147	CHEMICAL- METALS & ALLOYS	Pure Copper & Low Alloyed Copper	Silicon	BS EN 15079
148	CHEMICAL- METALS & ALLOYS	Pure Copper & Low Alloyed Copper	Sulphur	BS EN 15079
149	CHEMICAL- METALS & ALLOYS	Pure Copper & Low Alloyed Copper	Tin	BS EN 15079
150	CHEMICAL- METALS & ALLOYS	Pure Copper & Low Alloyed Copper	Zinc	BS EN 15079
151	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	JIS G 1253

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152	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS G 1253
153	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS G 1253
154	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS G 1253
155	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS G 1253
156	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS G 1253
157	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	JIS G 1253
158	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	JIS G 1253
159	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS G 1253
160	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS G 1253
161	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys & Products	0.2% Proof Stress	IS 1608 (Part 1)
162	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys & Products	Brinell Hardness	IS 1500 (Part 1)
163	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys & Products	Brinell Hardness	IS 1500 (Part 1)
164	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys & Products	Elongation %	IS 1608 (Part 1)
165	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys & Products	Reduction of Area	IS 1608 (Part 1)
166	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys & Products	Rockwell Hardness	IS 1586 (Part 1)
167	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys & Products	Ultimate Tensile Strength	IS 1608 (Part 1)

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168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys & Products	Yield Stress	IS 1608 (Part 1)
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Proof Load Test for Bolt	IS 1367 (Part 3)
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	0.2% Proof Stress	IS 1608 (Part 1)
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	0.2% Proof Stress	ASTM A370
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Brinell Hardness	IS 1500 (Part 1)
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Brinell Hardness	IS 1500 (Part 1)
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Elongation %	IS 1608 (Part 1)
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Reduction of Area	IS 1608 (Part 1)
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Ultimate Tensile Strength	IS 1608 (Part 1)
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Yield Stress	IS 1608 (Part 1)
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Charpy Impact Test ('V' notch)	IS 1757 (Part 1)
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Izod Impact Test	IS 1598
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	ASTM A370
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	IS 1599

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182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness	ASTM A370
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness	ASTM A370
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Drift Expansion Test for Tubes	IS 2335
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, Alloys & products	Elongation%	ASTM A370
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test for Tubes	IS 2328
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reduction of Area	ASTM A 370
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness	IS 1586 (Part 1)
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness	IS 1586 (Part 1)
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness	IS 1586 (Part 1)
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength	ASTM A370
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Stress	ASTM A370
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Helical Spring	static load test for compressing to Block Length	IS 7906 (Part 5)
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Helical Spring	static load test for compressing to Block Length	IS 7906 (Part 5)
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Helical Spring	static load test for compressing to Block Length	IS 7906 (Part 5)

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196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bar	Elongation %	IS 1786
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bar	Mass per Meter Run	IS 1786
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bar	Rebend Test	IS 1786
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bar	Ultimate Tensile Strength	IS 1786
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bar	Yield Stress	IS 1786
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Wire	Torsion Test	IS 1717
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Wire	Wrapping	IS 1755
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & Products	0.2% Proof Stress	IS 1608 (Part 1)
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & Products	Brinell Hardness	IS 1500 (Part 1)
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & Products	Brinell Hardness	IS 1500 (Part 1)
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & Products	Elongation %	IS 1608 (Part 1)
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & Products	Reduction of Area	IS 1608 (Part 1)
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & Products	Rockwell Hardness	IS 1586 (Part 1)
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & Products	Ultimate Tensile Strength	IS 1608 (Part 1)

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210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & Products	Yield Stress	IS 1608 (Part 1)
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fastners (Full Size Bolts)	Head Soundness Test	IS 1367 (Part 3)
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fastners (Full Size Bolts)	Tensile Test Under Wedge Load	IS 1367 (Part 3)
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Sheets and Strips	Modified Erichson Cupping Test	IS 10175
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Charpy Impact Test	ASME Section IX
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Charpy Impact Test	IS 2825
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Charpy Impact Test	IS 7310 (Part 1)
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Charpy Impact Test	IS 7918 (Part 1 & 2)
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Fillet Weld Fracture	ASME Section IX
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Fillet Weld Fracture	IS 2825
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Fillet Weld Fracture	IS 7310 (Part 1)
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Fillet Weld Fracture	IS 7318 (Part 1 & 2)
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Macro Examination	ASME Section IX
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Macro Examination	IS 2825

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224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Macro Examination	IS 7310 (Part 1)
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Macro Examination	IS 7318 (Part 1 & 2)
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Nick Break	IS 2825
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Side Bend	ASME Section IX
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Side Bend	IS 2825
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Side Bend	IS 7310 (Part 1)
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Side Bend	IS 7318 (Part 1 & 2)
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Tensile Test	ASME Section IX
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Tensile Test	IS 2825
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Tensile Test	IS 7310 (Part 1)
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Tensile Test	IS 7318 (Part 1 & 2)
235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Transverse Face Bend	ASME Section IX
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Transverse Face Bend	IS 2825
237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Transverse Face Bend	IS 7310 (Part 1)

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238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Transverse Face Bend	IS 7318 (Part 1 & 2)
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Transverse Root Bend	ASME Section IX
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Transverse Root Bend	IS 2825
241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Transverse Root Bend	IS 7310 (Part 1)
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate for Boiler and Pressure Vessels	Transverse Root Bend	IS 7318 (Part 1 & 2)
243	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Classification of graphite by comparison method	IS 7754
244	MECHANICAL-METALLOGRAPHY TEST	Copper materials, alloys & products	Micro structural Analysis	ASM Handbook Metallography & Microstructures - Vol. 9
245	MECHANICAL-METALLOGRAPHY TEST	Copper materials, alloys & products	Micro structural analysis	IS 7739 (part 1)
246	MECHANICAL-METALLOGRAPHY TEST	Electro Plated Material	Coating/Plating Thickness (Microscopic Method)	IS 3203
247	MECHANICAL-METALLOGRAPHY TEST	Other Non-Ferrous metals, alloys & products	Micro structural Analysis	ASM Handbook Metallography & Microstructures - Vol. 9
248	MECHANICAL-METALLOGRAPHY TEST	Other Non-Ferrous metals, allyos & products	Micro structural Analysis	IS 7739 (Part 1)
249	MECHANICAL-METALLOGRAPHY TEST	Steel	Case Depth(Microscopic Method)	IS 6416
250	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburized Layer (Microscopic Method)	IS 6396
251	MECHANICAL-METALLOGRAPHY TEST	Steel	Grain Size (Comparison Method)	IS 4748
252	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating By(Microscopic Method)	IS 4163
253	MECHANICAL-METALLOGRAPHY TEST	Steel	Micro structural Analysis	ASM Handbook Metallography & Microstructures - Vol. 9
254	MECHANICAL-METALLOGRAPHY TEST	Steel	Micro Structural Analysis	IS 7739 (part 1)

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255	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Macro structural Analysis	IS 11371
256	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Macro structural Analysis	IS 13015
257	MECHANICAL-METALLOGRAPHY TEST	Steel Welded Products	Macro structural Analysis	ASTM E 340

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LOCATION 2 - 59/3, KANTAPUKUR 3RD BYE LANE, HOWRAH, WEST BENGAL, INDIA Permanent Facility				
1	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Iron & Steel Articles	Adhesion (Pivoted Hammer)	IS 2629 Clause 6.4
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Iron & Steel Articles	Mass of Zinc Coating (Stripping Method)	IS 6745 Clause 5
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Iron & Steel Articles	Uniformity of Zinc Coating	IS 2633 Clause 2
4	CHEMICAL- METALS & ALLOYS	Abrasion Resistant Cast Iron	Chromium	IS 12308 (Part 8)
5	CHEMICAL- METALS & ALLOYS	Abrasion Resistant Cast Iron	Manganese	IS 12308 (Part 10)
6	CHEMICAL- METALS & ALLOYS	Abrasion Resistant Cast Iron	Nickel	IS 12308 (Part 7)
7	CHEMICAL- METALS & ALLOYS	Abrasion Resistant Cast Iron	Phosphorus	IS 12308 (Part 5)
8	CHEMICAL- METALS & ALLOYS	Abrasion Resistant Cast Iron	Silicon	IS 12308 (Part 6)
9	CHEMICAL- METALS & ALLOYS	Abrasion Resistant Cast Iron	Total Carbon	IS 12308 (Part 11)
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS 504 (Part 4)
11	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Copper	IS 504 (Part 3)
12	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Iron	IS 504 (Part 2)
13	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Magnesium	IS 504 (Part 6)
14	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Manganese	IS 504 (Part 5)
15	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Silicon	IS 504 (Part 1)
16	CHEMICAL- METALS & ALLOYS	Carbon Steel (low Carbon, medium Carbon & high Carbon Steel)	Carbon	ASTM E350
17	CHEMICAL- METALS & ALLOYS	Carbon Steel (low Carbon, medium Carbon & high Carbon Steel)	Chromium	ASTM E350

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18	CHEMICAL- METALS & ALLOYS	Carbon Steel (low Carbon, medium Carbon & high Carbon Steel)	Manganese	ASTM E350
19	CHEMICAL- METALS & ALLOYS	Carbon Steel (low Carbon, medium Carbon & high Carbon Steel)	Nickel	ASTM E350
20	CHEMICAL- METALS & ALLOYS	Carbon Steel (low Carbon, medium Carbon & high Carbon Steel)	Phosphorus	ASTM E350
21	CHEMICAL- METALS & ALLOYS	Carbon Steel (low Carbon, medium Carbon & high Carbon Steel)	Silicon	ATM E350
22	CHEMICAL- METALS & ALLOYS	Carbon Steel(low carbon, medium carbon & high carbon steel)	Carbon	IS 228 (Part 1)
23	CHEMICAL- METALS & ALLOYS	Carbon Steel(low carbon, medium carbon & high carbon steel)	Chromium	IS 228 (Part 6)
24	CHEMICAL- METALS & ALLOYS	Carbon Steel(low carbon, medium carbon & high carbon steel)	Manganese	IS 228 (Part 2)
25	CHEMICAL- METALS & ALLOYS	Carbon Steel(low carbon, medium carbon & high carbon steel)	Nickel	IS 228 (Part 5)
26	CHEMICAL- METALS & ALLOYS	Carbon Steel(low carbon, medium carbon & high carbon steel)	Phosphorus	IS 228 (Part 3)
27	CHEMICAL- METALS & ALLOYS	Carbon Steel(low carbon, medium carbon & high carbon steel)	Silicon	IS 228 (Part 8)
28	CHEMICAL- METALS & ALLOYS	Carbon Steel(low carbon, medium carbon & high carbon steel)	Sulphur	IS 228 (Part 9)
29	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Lead	IS 440
30	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Copper	IS 3685
31	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Copper	IS 440
32	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Iron	IS 3685
33	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Iron	IS 440
34	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Lead	IS 3685
35	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Manganese	IS 3685 Clause 7
36	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Nickel	IS 3685

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37	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Nickel	IS 440
38	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Phosphorus	IS 3685 Clause 8
39	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Tin	IS 3685
40	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Tin	IS 440
41	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Zinc	IS 3685
42	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Zinc	IS 440
43	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (Part 1)
44	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 228 (Part 6)
45	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 228 (Part 2)
46	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 228 (Part 7)
47	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 228 (Part 5)
48	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 228 (Part 3)
49	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 (Part 8)
50	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 228 (Part 9)
51	CHEMICAL- METALS & ALLOYS	White Metal	Antimony	IS 1409
52	CHEMICAL- METALS & ALLOYS	White Metal	Copper	IS 1409
53	CHEMICAL- METALS & ALLOYS	White Metal	Lead	IS 1409
54	CHEMICAL- METALS & ALLOYS	White Metal	Tin	IS 1409