National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BHARTIYA ENTERPRISES - MATERIAL TESTING LABORATORY, PLOT NO-254, SECTOR-24, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 21/05/2023 to 20/05/2025 **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- CORROSION TESTS	Austenitic Stainless Steel	IGC Practice A	ASTM A262
2	CHEMICAL- CORROSION TESTS	Austenitic Stainless Steel	IGC Practice B	ASTM A262
3	CHEMICAL- CORROSION TESTS	Austenitic Stainless Steel	IGC Practice C	ASTM A262
4	CHEMICAL- CORROSION TESTS	Austenitic Stainless Steel	IGC Practice E	ASTM A262
5	CHEMICAL- CORROSION TESTS	Coated Material and products	Mass of Aluminium Coating	IS 3821
6	CHEMICAL- CORROSION TESTS	Coated Material and products	Mass of Phosphating	IS 3618
7	CHEMICAL- CORROSION TESTS	Coated Materials and products	Mass of Aluminium coating	ASTM A428/A428M
8	CHEMICAL- CORROSION TESTS	Galvanized , Zinc coated or plated specimens and products	Mass of Zinc	ASTM A90/A90M
9	CHEMICAL- CORROSION TESTS	Galvanized , Zinc coated or plated specimens and products	Mass of Zinc	IS 6745
10	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Evaluation designation and assessment of degradation of coatings - Designation system	ISO 4628 - 1
11	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Evaluation designation and assessment of degree of Blistering	ASTM D714
12	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Evaluation designation and assessment of degree of Blistering	ISO 4628 - 2
13	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Evaluation designation and assessment of degree of Chalking by tape method	ISO 4628 - 6
14	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Evaluation designation and assessment of degree of Cracking	ASTM D661
15	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Evaluation designation and assessment of degree of Cracking	ISO 4628 - 4

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16	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Evaluation designation and assessment of degree of Delamination and Corrosion around a scribe or other artificial defect	ISO 4628 - 8
17	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Evaluation designation and assessment of degree of Filiform corrosion	ISO 4628 - 10
18	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Evaluation designation and assessment of degree of Flaking	ASTM D772
19	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Evaluation designation and assessment of degree of Flaking	ISO 4628 - 5
20	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Evaluation designation and assessment of degree of Rusting	ASTM D610
21	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Evaluation designation and assessment of degree of Rusting	ISO 4628 -3
22	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Evaluation painted coated or plated products and specimens subjected to corrosive environments	ASTM D1654
23	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Neutral Salt Spray Test	IS 9844
24	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Neutral Salt Spray Test	ISO 9227
25	CHEMICAL- CORROSION TESTS	Painted,Coated or Plated products and specimens	Neutral Salt Spray Tests	ASTM B117
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	ASTM E1999
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	IS 15338
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	JIS G1253
29	CHEMICAL- METALS & ALLOYS	Cast Iron	Antimony	ASTM E1999
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Antimony	IS 15338

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31	CHEMICAL- METALS & ALLOYS	Cast Iron	Antimony	JIS G 1253
32	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
33	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 15338
34	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	JIS G 1253
35	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
36	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 15338
37	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	JIS G1253
38	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
39	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338
40	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	JIS G1253
41	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	ASTM E1999
42	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	IS 15338
43	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	JIS G1253
44	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
45	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 15338
46	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	JIS G1253
47	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
48	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS 15338
49	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	JIS G1253

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50	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999
51	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 15338
52	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	JIS G1253
53	CHEMICAL- METALS & ALLOYS	Cast Iron	Niobium	ASTM E1999
54	CHEMICAL- METALS & ALLOYS	Cast Iron	Niobium	IS 15338
55	CHEMICAL- METALS & ALLOYS	Cast Iron	Niobium	JIS G1253
56	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E1999
57	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 15338
58	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	JIS G 1253
59	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
60	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS15338
61	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	JIS G 1253
62	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
63	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	IS 15338
64	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	JIS G 1253
65	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E1999
66	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	IS 15338
67	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	JIS G1253
68	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E1999

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69	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	IS 15338
70	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	JIS G1253
71	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E1999
72	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	IS 15338
73	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	JIS G 1253
74	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Aluminium	ASTM E415
75	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Aluminium	IS 8811
76	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Aluminium	JIS G 1253
77	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Antimony	ASTM E415
78	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Antimony	IS 8811
79	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Antimony	JIS G 1253
80	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Boron	ASTM E415
81	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Boron	IS 8811
82	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Boron	JIS G 1253
83	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon steel	Carbon	ASTM E415
84	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Carbon	IS 8811
85	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Carbon	JIS G 1253
86	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Chromium	ASTM E415
87	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Chromium	IS 8811

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88	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Chromium	JIS G 1253
89	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Cobalt	ASTM E415
90	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Cobalt	IS 8811
91	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Cobalt	JIS G 1253
92	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Copper	ASTM E415
93	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Copper	IS 8811
94	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Copper	JIS G 1253
95	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Lead	ASTM E415
96	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Lead	IS 8811
97	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Lead	JIS G 1253
98	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon steel	Manganese	ASTM E415
99	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Manganese	IS 8811
100	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Manganese	JIS G 1253
101	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Molybdenum	ASTM E415
102	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Molybdenum	IS 8811
103	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Molybdenum	JIS G 1253
104	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Nickel	ASTM E415
105	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Nickel	IS 8811
106	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Nickel	JIS G 1253

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107	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Niobium	ASTM E415
108	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Niobium	IS 8811
109	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Niobium	JIS G 1253
110	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Nitrogen	ASTM E415
111	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Nitrogen	IS 8811
112	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Nitrogen	JIS G 1253
113	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Phosphorus	ASTM E415
114	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Phosphorus	IS 8811
115	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Phosphorus	JIS G 1253
116	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon steel	Silicon	ASTM E415
117	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Silicon	IS 8811
118	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Silicon	JIS G 1253
119	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Sulphur	ASTM E415
120	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Sulphur	IS 8811
121	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Sulphur	JIS G 1253
122	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Titanium	ASTM E415
123	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Titanium	IS 8811
124	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Titanium	JIS G 1253
125	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Tungsten	ASTM E415

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126	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Tungsten	IS 8811
127	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Tungsten	JIS G 1253
128	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Vanadium	ASTM E415
129	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Vanadium	IS 8811
130	CHEMICAL- METALS & ALLOYS	Low Alloy Steel and Carbon Steel	Vanadium	JIS G 1253
131	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	ASTM E 1086
132	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	IS 9879
133	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	JIS G 1253
134	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
135	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
136	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G 1253
137	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
138	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
139	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G1253
140	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	ASTM E1086
141	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	IS 9879
142	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	JIS G 1253
143	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
144	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879

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145	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G1253
146	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
147	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
148	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G1253
149	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
150	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
151	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G 1253
152	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
153	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
154	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G 1253
155	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	ASTM E1086
156	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	IS 9879
157	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	JIS G 1253
158	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	ASTM E 1086
159	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	IS 9879
160	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	JIS G1253
161	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
162	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
163	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	JIS G 1253

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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
164	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
165	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
166	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G 1253
167	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
168	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
169	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	JIS G 1253
170	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	ASTM E1086
171	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	IS 9879
172	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JIS G 1253
173	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	ASTM E1086
174	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	IS 9879
175	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JIS G 1253
176	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated aluminium alloys and products	Thickness of Anodic coating (Microsection method)	IS 5523
177	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Bend Test	ASME SEC IX
178	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Bend Test	ASTM A370
179	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Bend Test	IS 1599
180	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Bend Test	ISO 7438

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181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Brinell Hardness HBW10/3000	ISO 6506-1
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Brinell Hardness HBW10/3000 , HBW5/750,HBW2.5/187.5	ASME SEC - IX
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Brinell Hardness HBW2.5/187.5	ISO 6506-1
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Brinell Hardness HBW5/750	ISO 6506-1
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Brinell Hardness HBW10/3000	ASTM A370
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Brinell Hardness HBW10/3000	ASTM E10
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Brinell Hardness HBW10/3000	IS 1500 (Part 1)
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Brinell Hardness HBW2.5/187.5	ASTM A370
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Brinell Hardness HBW2.5/187.5	ASTM E10
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Brinell Hardness HBW2.5/187.5	IS 1500 (Part 1)
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Brinell Hardness HBW5/750	ASTM A370
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Brinell Hardness HBW5/750	ASTM E10
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Brinell Hardness HBW5/750	IS 1500 (Part 1)
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Elongation	ASME SEC IX

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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
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Elongation	ASTM A370
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Elongation	ASTM E8/E8M
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Elongation	IS 1608(Part 1)
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Elongation	ISO 6892-1
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 0.1	ASTM E92
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 0.1	IS 1501 (Part 1)
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 0.1	ISO 6507-1
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 0.2	ASTM E92
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 0.2	IS 1501 (Part 1)
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 0.2	ISO 6507-1
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 0.3	ASTM E92
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 0.3	IS 1501 (Part 1)
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 0.3	ISO 6507-1
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 0.5	ASTM E92

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209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 0.5	IS 1501 (Part 1)
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 0.5	ISO 6507-1
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 1	ASTM E92
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 1	IS 1501 (Part 1)
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Micro Vickers Hardness Scale HV 1	ISO 6507-1
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Reduction Area	ASME SEC - IX
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Reduction in Area	ASTM A370
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Reduction in Area	ASTM E8/E8M
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Reduction in Area	IS 1608(Part 1)
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Reduction in Area	ISO 6892-1
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Hardness "HRA"	ASTM E18
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Hardness "HRA"	IS 1586 (Part 1)
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Hardness "HRA"	ISO 6508-1
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Hardness "HRBW"	ASTM E18

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223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Hardness "HRBW"	IS 1586 (Part 1)
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Hardness "HRBW"	ISO 6508-1
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Hardness "HRC"	ASTM E18
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Hardness "HRC"	IS 1586 (Part 1)
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Hardness "HRC"	ISO 6508-1
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Hardness HRBW	ASME SEC - IX
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Hardness HRC	ASME SEC - IX
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Superficial Hardness "HR15N"	ASTM E18
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Superficial Hardness "HR15N"	IS 1586 (Part 1)
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Superficial Hardness "HR15N"	ISO 6508-1
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Superficial Hardness "HR30N"	ASTM E18
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Superficial Hardness "HR30N"	IS 1586 (Part 1)
235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Superficial Hardness "HR30N"	ISO 6508-1
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Superficial Hardness "HR30TW"	ASTM E18

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237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Superficial Hardness "HR30TW"	IS 1586(Part 1)
238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Superficial Hardness "HR30TW"	ISO 6508-1
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Superficial Hardness "HR45N"	ASTM E18
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Superficial Hardness "HR45N"	IS 1586 (Part 1)
241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Rockwell Superficial Hardness "HR45N"	ISO 6508-1
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Tensile Strength	ASME SEC - IX
243	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Tensile Strength	ASTM A370
244	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Tensile Strength	ASTM E8/E8M
245	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Tensile Strength	IS 1608(Part 1)
246	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Tensile Strength	ISO 6892-1
247	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Vickers Hardness	ASME SEC - IX
248	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Vickers Hardness Scale HV 10	ASTM A370
249	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Vickers Hardness Scale HV 10	ASTM E92
250	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Vickers Hardness Scale HV 10	IS 1501 (Part 1)

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251	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Vickers Hardness Scale HV 10	ISO 6507-1
252	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Vickers Hardness Scale HV 30	ASTM A370
253	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Vickers Hardness Scale HV 30	ASTM E92
254	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Vickers Hardness Scale HV 30	IS 1501 (Part 1)
255	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Vickers Hardness Scale HV 30	ISO 6507-1
256	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non ferrous (Aluminium and Copper) materials, alloys & products	Vickers Hardness Scale HV 5	ASTM A370
257	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Vickers Hardness Scale HV 5	ASTM E92
258	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Vickers Hardness Scale HV 5	IS 1501 (Part 1)
259	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Vickers Hardness Scale HV 5	ISO 6507-1
260	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Yield Strength (0.2% proof stress)	ASTM A370
261	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Yield Strength (0.2% proof stress)	IS 1608(Part 1)
262	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Yield Stress	ASME SEC - IX
263	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Yield Stress (0.2% proof stress)	ISO 6892-1
264	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous (Aluminium and Copper) materials, alloys & products	Yields Stress (0.2% proof stress)	ASTM E8/E8M

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265	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials, alloys & products	Dimension Test - Angle	Profile Projector - SOP No-BE/MD/04
266	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials, alloys & products	Dimension Test - Angle	VMM - SOP No- BE/MD/05
267	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials, alloys & products	Dimension Test - Length, Diameter, Thickness	Micrometer - SOP No-BE/MD/01
268	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials, alloys & products	Dimension Test - Length, Diameter, Thickness	Profile Projector - SOP No-BE/MD/04
269	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials, alloys & products	Dimension Test - Length, Diameter, Thickness	Vernier - SOP No- BE/MD/02
270	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials, alloys & products	Dimension Test - Length, Diameter,Thickness, Height	VMM - SOP No - BE/MD/05
271	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials, alloys and products	Dimension Test - Height, Depth	Height Gauge - SOP No-BE/MD/03
272	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous materials, alloys & products	Density Measurement (Relative density,Specific gravity)	OIML G 14
273	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous materials, alloys & products	Surface Roughness Ra µm	ASME 46.1
274	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous materials, alloys & products	Surface Roughness Ra µm	IS 3073
275	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous materials, alloys & products	Surface Roughness Ra µm	ISO 4287
276	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous materials, alloys & products	Surface Roughness Ra µm	SAE J 911
277	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact U Notch Test (Temparature: 32 degrees C to - (Minus) 50 degrees C	ISO 148-1
278	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact U Notch Test (Temperature: 32 degrees C to - (Minus) 50 degrees C	IS 1757 (Part 1)

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279	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact V Notch Test (Temparature: 32 degrees C to - (Minus) 50 degrees C	ISO 148-1
280	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact V Notch Test (Temparature: 32 degrees C to - (Minus) 50 degrees C	IS 1757 (Part 1)
281	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Drift Expanding Test	ISO 2335
282	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Drift Expanding Test	ISO 8493
283	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test	IS 2328
284	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test	ISO 8492
285	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Hardenability of steel by the end-quench or Jominy test.	ASTM A255
286	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Hardenability of steel by the end-quench or Jominy test.	IS 3848
287	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Izod Impact Test	IS 1598
288	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Lateral Expansion (Charpy Impact Test)	IS 1757(Part 1)
289	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Lateral Expansion (Charpy Impact Test)	ISO 148-1
290	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Leeb Hardness Test HLD	ASTM A956/A956M
291	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Leeb Hardness Test HLD	ISO 16859-1
292	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars and wires	Mass per metre	1786

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293	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars and wires	Rebend Test	IS 1786
294	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars and wires	Rib Area per unit Length	IS 1786
295	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pin or Stud welded products and specimens	Bend Test	ISO 14555
296	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pin or Stud welded products and specimens	Ring Test	ISO 14555
297	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pin or Stud welded products and specimens	Tensile test	ISO 14555
298	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pin or Stud welded products and specimens	Torque Test	ISO 14555
299	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pin or Stud welded products and specimens	Visual Examination	ISO 14555
300	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Rivet, Nut, Bolt and Screw Joints	Tensile Shear Test	ISO 12996
301	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded specimens	Reduction in Area	ISO 4136
302	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Bend Test (Face,Root,Side)	ISO 5173
303	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Charpy Impact U Notch Test (Temparature: 32 degrees C to - (Minus) 50 degrees C	ISO 9016
304	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Charpy Impact V Notch Test (Temparature: 32 degrees C to - (Minus) 50 degrees C	ISO 9016
305	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Elongation	ISO 4136
306	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Fracture Test	ISO 9017

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307	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Hardness Test	ISO 9015-1
308	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Micro Hardness Test	ISO 9015-2
309	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Peel and Chisel Test	ISO 10447
310	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Tensile Shear Test	ISO 14273
311	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Tensile Strength	ISO 4136
312	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Yield Stress().2% proof stress)	ISO 4136
313	MECHANICAL-METALLOGRAPHY TEST	Aluminium materials, alloys & products	Micro Structure Analysis	ASM Hand Book Volume 9
314	MECHANICAL-METALLOGRAPHY TEST	Brazed products and specimens	Brazing — Imperfections in brazed joints	ISO 18279
315	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite Classification	ISO 945-1
316	MECHANICAL-METALLOGRAPHY TEST	Cast Iron and products	Designation of Micro Structure of Graphite in Cast Iron	IS 7754
317	MECHANICAL-METALLOGRAPHY TEST	Cast Iron and products	Evaluating the Microstructure of Graphite in Iron Castings	ASTM A247
318	MECHANICAL-METALLOGRAPHY TEST	Copper materials, alloys & products	Micro Structure Analysis	ASM Hand Book Volume 9
319	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non ferrous (Aluminium and Copper) materials, alloys & products (Coated and Plated products)	Local thickness of Electroplated coatings	IS 3203
320	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non ferrous (Aluminium and Copper) materials, alloys & products (Coated and Plated products)	Measurement of the local thickness of metal and oxide coatings by the microscopical examination of cross sections using an optical microscope	ASTM B487
321	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determination of Case Depth by Micro Vickers Hardness Method	IS 6416

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322	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determination of Case Depth by Microscopic method	IS 6416
323	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determination of Depth of Decarburization by Microscopic method	IS 6396
324	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determination of Non-Metallic Inclusions Rating by "Method A"	IS 4163
325	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determination of Non-Metallic Inclusions Rating by "Method A"	ISO 4967
326	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determining Average Grain Size	ISO 643
327	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determining Average Grain Size by Comparison procedure	ASTM E112
328	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determining the Inclusion Content of Steel Microscopic methods	ASTM E45 (Method A)
329	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimating the Depth of Decarburization of Steel Specimens by Microscopical test method.	ASTM E1077
330	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimation of Average Grain Size by Microscopic method by comparison method	IS 4748
331	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Structural Analysis	IS 13015
332	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products (Cast Iron and Steels)	Micro Structure Analysis	ASM Hand Book Volume 9
333	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys and products	Macro Structural Analysis	IS 11371
334	MECHANICAL-METALLOGRAPHY TEST	Machined, Ground, Case hardened, Heat treated, Steel Products	Surface temper etch Inspection	ISO 14104
335	MECHANICAL-METALLOGRAPHY TEST	Pin or Stud welded products and specimens	Macro Examination	ISO 14555
336	MECHANICAL-METALLOGRAPHY TEST	Threaded Steel Fastners	Surface Discontinuities - Bolts, Screws and Studs	IS 1367 (Part 9 Sec 1 Sec 2)
337	MECHANICAL-METALLOGRAPHY TEST	Threaded Steel Fastners	Surface Discontinuities - Nuts	IS 1367 (Part 10)

SCOPE OF ACCREDITATION

Laboratory Name : BHARTIYA ENTERPRISES - MATERIAL TESTING LABORATORY, PLOT NO-254, SECTOR-24, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5739 **Page No** 22 of 22

Validity 21/05/2023 to 20/05/2025 **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
338	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macroscopic and microscopic examination of welds	ISO 17639
339	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macroscopic and microscopic examination of welds	ISO 6520-1
340	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Quality Levels for Imperfections	ISO 5817
341	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens & welded products	Weld discontinuities, dimensions, weld size.	AWS D8.8M