National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ALPHA LABORATORY SERVICES, NH-27, SHAPAR (VERAVAL), RAJKOT, GUJARAT, INDIA
Accreditation Standard ISO/IEC 17025:2017
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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
Permanent Facility				
1	CHEMICAL- CORROSION TESTS	Anodized Products / Panels / Raw Materials	Neutral Salt Spray	ASTM B117
2	CHEMICAL- CORROSION TESTS	Coated Products / Panels / Raw Materials	Neutral Salt Spray	ASTM B117
3	CHEMICAL- CORROSION TESTS	Coated Products / Panels / Raw Materials	Neutral Salt Spray	ISO 9227
4	CHEMICAL- CORROSION TESTS	Galvanized Products / Panels / Raw Materials	Neutral Salt Spray	ASTM B117
5	CHEMICAL- CORROSION TESTS	Inorganic & Organic coated produc/ material	Neutral Salt Spray	ASTM B117
6	CHEMICAL- CORROSION TESTS	Mettalic products and Raw Materials	Neutral Salt Spray	ASTM B117
7	CHEMICAL- CORROSION TESTS	Painted Products / Panels / Raw Materials	Neutral Salt Spray	ASTM B117
8	CHEMICAL- CORROSION TESTS	Plated Products / Panels / Raw Materials	Neutral Salt Spray	ASTM B117
9	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Bismuth	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Cadmium	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Chromium	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Cobalt	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Copper	ASTM E1251
14	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Iron	ASTM E1251
15	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Lead	ASTM E1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Magnesium	ASTM E1251
17	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Manganese	ASTM E1251
18	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Nickel	ASTM E1251

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19	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Silicon	ASTM E1251
20	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Tin	ASTM E1251
21	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Titanium	ASTM E1251
22	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Vanadium	ASTM E1251
23	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Zinc	ASTM E2017
24	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Zirconium	ASTM E1251
25	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Aluminium	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Arsenic	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Boron	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Carbon	ASTM E415
29	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Chromium	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Copper	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Manganese	ASTM E415
32	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Molybdenum	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Nickel	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Nitrogen	ASTM E415
35	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Phosphorus	ASTM E415
36	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Silicon	ASTM E415
37	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Sulphur	ASTM E415

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38	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Tin	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Titanium	ASTM E415
40	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Tungsten	ASTM E415
41	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Vanadium	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	ASTM E1999
43	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
44	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
45	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
46	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	ASTM E1999
47	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
48	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
49	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999
50	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E1999
51	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
52	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
53	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E1999
54	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E1999
55	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E1999
56	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Aluminium	BS EN 15079

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57	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Antimony	BS EN 15079
58	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Arsenic	BS EN 15079
59	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Bismuth	BS EN 15079
60	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Cobalt	BS EN 15079
61	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Copper	BS EN 15079
62	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Iron	BS EN 15079
63	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Lead	BS EN 15079
64	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Manganese	BS EN 15079
65	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Nickel	BS EN 15079
66	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Phosphorus	BS EN 15079
67	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Silicon	BS EN 15079
68	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Silver	BS EN 15079
69	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Sulphur	BS EN 15079
70	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Tin	BS EN 15079
71	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Zinc	BS EN 15079
72	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Aluminium	ASTM E3047
73	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Carbon	ASTM E3047
74	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Chromium	ASTM E3047
75	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Cobalt	ASTM E3047

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76	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Copper	ASTM E3047
77	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Iron	ASTM E3047
78	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Manganese	ASTM E3047
79	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Molybdenum	ASTM E3047
80	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Nickel	ASTM E3047
81	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Niobium	ASTM E3047
82	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Nitrogen	ASTM E3047
83	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Phosphorus	ASTM E3047
84	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Silicon	ASTM E3047
85	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Sulphur	ASTM E3047
86	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Titanium	ASTM E3047
87	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Tungsten	ASTM E3047
88	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Vanadium	ASTM E3047
89	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	ASTM E1086
90	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	ASTM E1086
93	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086

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95	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
97	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	ASTM E1086
98	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	ASTM E1086
99	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
100	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
101	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
102	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tin	ASTM E1086
103	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	ASTM E1086
104	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	ASTM E1086
105	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	ASTM E1086
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	% of Elongation	ASTM A370
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	% of Elongation	ASTM B557
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	% of Elongation	ASTM E8
109	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	% of Elongation	BS EN 10002-1
110	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	% of Elongation	DIN EN ISO 6892-1
111	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	% of Elongation	IS 1608-1

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112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	% of Reduction of Area	ASTM A370
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	% of Reduction of Area	ASTM B557
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	% of Reduction of Area	ASTM E8
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	% of Reduction of Area	BS EN 10002-1
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	% of Reduction of Area	DIN EN ISO 6892-1
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	% of Reduction of Area	IS 1608-1
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	0.2% Proof Stress	ASTM A370
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	0.2% Proof Stress	ASTM B557
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	0.2% Proof Stress	ASTM E8
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	0.2% Proof Stress	BS EN 10002-1
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	0.2% Proof Stress	DIN EN ISO 6892-1
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	0.2% Proof Stress	IS 1608-1
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	1% Proof Stress	ASTM A370
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	1% Proof Stress	ASTM B557

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126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	1% Proof Stress	ASTM E8
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	1% Proof Stress	BS EN 10002-1
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	1% Proof Stress	DIN EN ISO 6892-1
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	1% Proof Stress	IS 1608-1
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	Tensile Strength	API 1104
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	Tensile Strength	ASTM A370
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	Tensile Strength	ASTM B557
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	Tensile Strength	ASTM E8
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	Tensile Strength	BS EN 10002-1
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	Tensile Strength	DIN EN ISO 6892-1
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	Tensile Strength	IS 1608-1
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	Yield Strength	ASTM A370
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	Yield Strength	ASTM B557
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	Yield Strength	ASTM E8

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140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	Yield Strength	BS EN 10002-1
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	Yield Strength	DIN EN ISO 6892-1
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, Plate, Pipe, Wire, Cast, Forged Specimen & Products	Yield Strength	IS 1608-1
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolts, Screws and Studs	% of Elongation	ASTM A193
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolts, Screws and Studs	% of Elongation	IS 1367-3
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolts, Screws and Studs	% of Reduction of Area	ASTM A193
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolts, Screws and Studs	% of Reduction of Area	IS 1367-3
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolts, Screws and Studs	0.2% Proof Stress	ASTM A193
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolts, Screws and Studs	0.2% Proof Stress	IS 1367-3
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolts, Screws and Studs	UTS	ASTM A193
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolts, Screws and Studs	UTS	IS 1367-3
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolts, Screws and Studs	Yield Strength	ASTM A193
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolts, Screws and Studs	Yield Strength	IS 1367-3
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Brinell Hardness (10/3000)	ASTM E10

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154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Brinell Hardness (10/3000)	IS 1500
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Brinell Hardness (10/3000)	ISO 6506-1
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Brinell Hardness (5/750)	ASTM E10
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Brinell Hardness (5/750)	IS 1500
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Brinell Hardness (5/750)	ISO 6506-1
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Charpy Impact Test	ASTM A370
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Charpy Impact Test	ASTM A923 Method-B
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Charpy Impact Test	ASTM E23
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Charpy Impact Test	ISO 148-1
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Hardness Test, Rockwell B	ASTM A370
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Hardness Test, Rockwell B	ASTM E18
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Hardness Test, Rockwell B	ISO 6508-1
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Hardness Test, Rockwell C	ASTM A370
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Hardness Test, Rockwell C	ASTM E18

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168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Hardness Test, Rockwell C	ISO 6508-1
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Micro Vicker Hardness, HV1	ASTM E384
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Micro Vicker Hardness, HV1	IS 1754
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Vicker Hardness, HV10	ASTM E92
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Vicker Hardness, HV10	IS 1501
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Vicker Hardness, HV10	ISO 6507-1
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Vicker Hardness, HV5	ASTM E92
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Vicker Hardness, HV5	IS 1501
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Vicker Hardness, HV5	ISO 6507-1
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nuts	Proof Load Test	ASTM A194
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nuts	Proof Load Test	IS 1367 (Part 6):RA2015
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipe Specimen	Flattening Test	ASME Sec.II A SA-999
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipe Specimen	Flattening Test	ASTM A370
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipe Specimen	Flattening Test	IS 2328

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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
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Wire, Cast & Forged Specimen	Bend Test	API 1104
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Wire, Cast & Forged Specimen	Bend Test	ASTM A370
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Wire, Cast & Forged Specimen	Bend Test	ASTM E290
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Wire, Cast & Forged Specimen	Bend Test	BS EN 910
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Wire, Cast & Forged Specimen	Bend Test	IS 1599
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Wire, Cast & Forged Specimen	Bend Test	ISO 5173
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Material	Hardenability(End Quenched or Jominy) Test	ASTM A255
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Material	Hardenability(End Quenched or Jominy) Test	IS 3848
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	% of Elongation	BS EN 876
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	% of Elongation	DIN EN ISO 15614-1
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	% of Reduction of Area	BS EN 876
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	% of Reduction of Area	DIN EN ISO 15614-1
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	0.2% Yield Stress	BS EN 876
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	1% Yield Stress	BS EN 876

SCOPE OF ACCREDITATION

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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
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	Bend Test	ASME Sec: IX
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	Bend Test	AWS D1.1
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	Bend Test	DIN EN ISO 15614-1
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	UTS	ASME Sec: IX
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	UTS	AWS D1.1
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	UTS	BS EN 876
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	UTS	DIN EN ISO 15614-1
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	UTS	EN ISO 4136
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	Yield Strength	BS EN 876
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipe & Plate Specimen	Yield Strength	DIN EN ISO 15614-1
206	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Decarburization Depth	ASTM E1077
207	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Decarburization Depth	IS 6396 (RA2018) Cl. No.: 6
208	MECHANICAL-METALLOGRAPHY TEST	Austenitic and Duplex Steel	IGC Method-A	ISO 3651-2 Method-A
209	MECHANICAL-METALLOGRAPHY TEST	Austenitic and Duplex Steel	IGC Method-B	ISO 3651-2 Method-B
210	MECHANICAL-METALLOGRAPHY TEST	Austenitic and Duplex Steel	IGC Method-C	ISO 3651-2 Method-C

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211	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Method-A	ASTM A262 Practice-A
212	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Method-B	ASTM A262 Practice-B
213	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Method-C	ASTM A262 Practice-C
214	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Method-E	ASTM A262 Practice-E
215	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Method-F	ASTM A262 Practice-F
216	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Ferritic and Duplex Stainless Steel	Method: C - Pitting Corrosion Test	ASTM A923
217	MECHANICAL-METALLOGRAPHY TEST	Bearing Steel	Carbide Size and Segregation	SEP 1520
218	MECHANICAL-METALLOGRAPHY TEST	Cast Iron and S.G. Iron	Size and Distribution of Graphite Flake & Nodular	ASTM A247
219	MECHANICAL-METALLOGRAPHY TEST	Cast Iron and S.G. Iron	Size and Distribution of Graphite Flake & Nodular	IS 7754
220	MECHANICAL-METALLOGRAPHY TEST	Coated Products	Coating Thickness by Microscopic Method	ASTM B487
221	MECHANICAL-METALLOGRAPHY TEST	Coated Products	Coating Thickness by Microscopic Method	IS 3203
222	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steel	Classification of Structure	ASTM A923 Method-A
223	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Microstructure Examination	ASM Handbook Vol. 9
224	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Microstructure Examination	ASTM E3
225	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Microstructure Examination	ASTM E407
226	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Volume Fraction	ASTM E1245
227	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Volume Fraction	ASTM E562
228	MECHANICAL-METALLOGRAPHY TEST	Stainless and Duplex Steel	Ferrite Content by Ferrite Meter	ASTM A799
229	MECHANICAL-METALLOGRAPHY TEST	Stainless and Duplex Steel	Ferrite Content by Ferrite Meter	ASTM A800

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230	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel, Duplex Steel & Nickel Base Alloys	Method: A - Pitting Corrosion Test	ASTM G48
231	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel, Duplex Steel & Nickel Base Alloys	Method: B - Crevice Corrosion Test	ASTM G48
232	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel, Duplex Steel & Nickel Base Alloys	Method: E - Critical Pitting Corrosion Test	ASTM G48
233	MECHANICAL-METALLOGRAPHY TEST	Steel	Case Depth	IS 6416 Cl. No.: 5
234	MECHANICAL-METALLOGRAPHY TEST	Steel	Case Depth	IS 6416 Cl. No.: 8
235	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating	ASTM E45
236	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating	IS 4163
237	MECHANICAL-METALLOGRAPHY TEST	Steel Bar, Billets, Blooms and Forgings	Macro Etch Test	ASM Handbook Vol. 9
238	MECHANICAL-METALLOGRAPHY TEST	Steel Bar, Billets, Blooms and Forgings	Macro Etch Test	ASTM E381
239	MECHANICAL-METALLOGRAPHY TEST	Steel Bar, Billets, Blooms and Forgings, Casting	Macro Etch Test	BS EN ISO 1463
240	MECHANICAL-METALLOGRAPHY TEST	Steel Bar, Billets, Blooms, Cast & Forgings	Grain Size (Comparison Method & Plan Metric Procedure)	ASTM E112
241	MECHANICAL-METALLOGRAPHY TEST	Steel Bar, Billets, Blooms, Cast & Forgings	Grain Size (Comparison Method & Plan Metric Procedure)	IS 4748
242	MECHANICAL-METALLOGRAPHY TEST	Welded Test Coupon	Macro Etch Test	ASME Sec. IX
243	MECHANICAL-METALLOGRAPHY TEST	Welded Test Coupon	Macro Etch Test	DIN EN ISO 15614-1
244	MECHANICAL-METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromium Bearing Alloys	IGC Test Method-A	ASTM G28