National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SKB METALLURGICAL SERVICES, 144/6, DHARMATALA ROAD, SALKIA, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 10/10/2021 to 09/10/2023 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coating	Adhesion Test of Zinc Coating	IS 2629
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coating	Mass of Zinc Coating	IS 6745
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coating	Uniformity of Zinc Coating	IS 2633
4	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	ASTM-E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM-E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	IS 504 (Pt-3)
7	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	ASTM-E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	IS 504 (Pt 2)
9	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM-E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	IS 504 (Pt 6)
11	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	ASTM-E 1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	IS 504 (Pt 5)
13	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Nickel	ASTM-E 1251
14	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Nickel	IS 504 (Pt 7)
15	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	ASTM-E 1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	IS 504 (Pt 1)
17	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Tin	ASTM-E 1251

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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
18	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	ASTM-E 1251
19	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc	ASTM-E 1251
20	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Aluminium	ASTM-E 415
21	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Aluminium	IS 8811
22	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Boron	ASTM E 415
23	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Boron	IS 8811
24	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Carbon	ASTM-E 415
25	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Carbon	IS 228 (Pt 1)
26	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Carbon	IS 8811
27	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Chromium	ASTM-E 415
28	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Chromium	IS 228 (Pt 6)
29	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Chromium	IS 8811
30	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Copper	ASTM-E 415
31	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Copper	IS 228 (Pt 15)
32	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Copper	IS 8811
33	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Manganese	ASTM-E 415
34	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Manganese	IS 228 (Pt 2)
35	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Manganese	IS 8811
36	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Molybdenum	ASTM-E 415

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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
37	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Molybdenum	IS 8811
38	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Nickel	ASTM-E 415
39	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Nickel	IS 228 (Pt 5)
40	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Nickel	IS 8811
41	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Niobium	ASTM-E 415
42	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Niobium	IS 8811
43	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Nitrogen	ASTM-E 415
44	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Nitrogen	IS 8811
45	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Phosphorus	ASTM-E 415
46	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Phosphorus	IS 228 (Pt 3)
47	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Phosphorus	IS 8811
48	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Silicon	ASTM-E 415
49	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Silicon	IS 228 (Pt 8)
50	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Silicon	IS 8811
51	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Sulphur	ASTM-E 415
52	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Sulphur	IS 228 (Pt 9)
53	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Sulphur	IS 8811
54	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Vanadium	ASTM-E 415
55	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Vanadium	IS 8811

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
56	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	ASTM -E 1999
57	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM-E1999
58	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 12308 (Pt-11)
59	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM-E 1999
60	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 12308 (Pt 8)
61	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM-E 1999
62	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM-E 1999
63	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 12308 (Pt-10)
64	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM-E 1999
65	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM-E 1999
66	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 12308 (Pt 7)
67	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM-E 1999
68	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 12308 (Pt 5)
69	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM-E 1999
70	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 12308 (Pt-6)
71	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM-E 1999
72	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM-E 1999
73	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Aluminium	BS-EN 15079
74	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Antimony	BS-EN 15079

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75	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Arsenic	BS-EN 15079
76	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Copper	IS 3685
77	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Copper	IS 4027 (Pt 1)
78	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Copper	IS 440
79	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Iron	BS-EN 15079
80	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Iron	IS 3685
81	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Iron	IS 4027 (Pt 6)
82	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	BS-EN 15079
83	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	IS 3685
84	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	IS 4027 (Pt-1)
85	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Manganese	BS-EN 15079
86	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Manganese	IS 3685
87	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Nickel	BS-En 15079
88	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Nickel	IS 3685
89	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Phosphorus	BS-EN 15079
90	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Phosphorus	IS 4027 (Pt 8)
91	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silicon	BS-EN 15079
92	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Tin	BS-EN 15079
93	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Tin	IS 3685

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94	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Tin	IS 4027 (Pt 5)
95	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zinc	BS-EN 15079
96	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zinc	IS 3685
97	CHEMICAL- METALS & ALLOYS	Manganese Steel	Carbon	ASTM-E2209
98	CHEMICAL- METALS & ALLOYS	Manganese Steel	Chromium	ASTM-E 2209
99	CHEMICAL- METALS & ALLOYS	Manganese Steel	Manganese	ASTM-E 2209
100	CHEMICAL- METALS & ALLOYS	Manganese Steel	Molybdenum	ASTM-E 2209
101	CHEMICAL- METALS & ALLOYS	Manganese Steel	Nickel	ASTM-E 2209
102	CHEMICAL- METALS & ALLOYS	Manganese Steel	Phosphorus	ASTM-E 2209
103	CHEMICAL- METALS & ALLOYS	Manganese Steel	Silicon	ASTM-E 2209
104	CHEMICAL- METALS & ALLOYS	Manganese Steel	Sulphur	ASTM-E 2209
105	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	ASTM E 1086
106	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	IS 9879
107	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM-E 1086
108	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (Pt-1)
109	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
110	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM-E 1086
111	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 228 (Pt-6)
112	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879

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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
113	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM-E 1086
114	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
115	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM-E 1086
116	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 228 (Pt-2)
117	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
118	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM-E 1086
119	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 228 (Pt-7)
120	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
121	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM-E 1086
122	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 228 (Pt-5)
123	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
124	CHEMICAL- METALS & ALLOYS	Stainless steel	Niobium	ASTM -E 1086
125	CHEMICAL- METALS & ALLOYS	Stainless steel	Nitrogen	ASTM-E 1086
126	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM-E 1086
127	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 228 (Pt-3)
128	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
129	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM-E 1086
130	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 (Pt-8)
131	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879

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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
132	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM-E 1086
133	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
134	CHEMICAL- METALS & ALLOYS	Stainless steel	Titanium	ASTM -E 1086
135	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	ASTM -E 1086
136	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	IS 9879
137	CHEMICAL- METALS & ALLOYS	Tin & its Alloys	Antimony	IS 1409
138	CHEMICAL- METALS & ALLOYS	Tin & its Alloys	Copper	IS 1409
139	CHEMICAL- METALS & ALLOYS	Tin & its Alloys	Lead	IS 1409
140	CHEMICAL- METALS & ALLOYS	Tin & its Alloys	Tin	IS 1409
141	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS G 1253
142	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS G 1253
143	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS G 1253
144	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS G 1253
145	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS G 1253
146	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	JIS G 1253
147	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	JIS G 1253
148	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	JIS G 1253
149	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS G 1253
150	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS G 1253

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151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Wire Flux Combination Test a) All Weld Tensile Test b) Charpy Impact Test (at RT & -20 Deg C)	IS 3613
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous -Nut	Proof Load Test	ISO 898 -2
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Bolt	Proof Load Test	ASTM A 370
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Bolt	Proof Load Test	IS 1367 (Pt 3)
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous Bolts	Proof load test	ISO 898-1
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material- Alloys & Products	Elongation	ASTM A 370
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material- Alloys & Products	Elongation	ISO 6892-1
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material- Alloys & Products	Reduction Area	ASTM A 370
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material- Alloys & Products	Reduction Area	ISO 6892-1
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material- Alloys & Products	Tensile Strength	ASTM A 370
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material- Alloys & Products	Tensile Strength	IS 1608 (Pt 1)
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material- Alloys & Products	Tensile Strength	ISO 6892-1
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material- Alloys & Products	Yield Stress/ 0.2 % Proof Stress	ISO 6892-1

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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	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material- Alloys & Products	Yield Stress/0.2%Proof Stress	IS 1608 (pt 1)
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material-Alloys & Products	Elongation	IS 1608 (Pt 1)
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material-Alloys & Products	Reduction Area	IS 1608 (Pt 1)
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material-Alloys & Products	Yield Stress/ 0.2 % Proof Stress	ASTM A 370
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Bend Test	ASTM A 370
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Bend Test	IS 1599
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Flattening Test	ASTM A 370
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Flattening Test	IS 2328
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Hardness Brinell (HBW 10/3000)	ASTM A 370
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Hardness Brinell (HBW 10/3000)	IS 1500
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Hardness Brinell (HBW 5/750)	ASTM A 370
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Hardness Brinell (HBW 5/750)	IS 1500
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Hardness Rockwel (HRB)	ASTM A 370
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Hardness Rockwel (HRB)	IS 1586 (Pt 1)

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178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Hardness Rockwel (HRC)	ASTM A 370
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Hardness Rockwel (HRC)	IS 1586 (Pt 1)
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Hardness Vickers (HV 10)	IS 1501 (Pt 1)
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Hardness Vickers (HV 30)	IS 1501 (Pt 1)
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Hardness Vickers (HV/10)	ASTM A 370
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Hardness Vickers (HV/30)	ASTM A 370
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	Izod Impact Test (Room Temperature)	IS 1598
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals- Alloys & Products	V Notch Charpy Impact Test (RT to – 70 ºC)	IS 1757
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Nut	Proof Load Test	ASTM A 370
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Nut	Proof Load Test	IS 1367 (Pt 6)
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Rivets & Rivet Bars	Shear Test (Dia 12,16,20,22mm)	IS 5242
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Procedure Qualification a) Bend Test (Root/Face/Side) b) Tensile Test (All Weld / Transverse) c) Charpy Impact Test (at RT & -20 Deg C) d) Macro Etching e) Fillet Weld Fracture	AWS D1.5

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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
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Performance Qualification (a)Bend Test (Root/Face/Side) (b)Macro Etching (c)Fillet Weld Fracture	ASME Sec. IX
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Performance Qualification (a) Bend Test (Root/Face/Side) (b) Macro Etching (c) Fillet Weld Fracture	AWS D1.1
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Performance Qualification a) Bend Test (Root/Face/Side) b) Macro Etching c) Fillet Weld Fracture	AWS D1.5
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Performance Qualification a) Bend Test (Root/Face/Side) b) Macro Etching c) Fillet Weld Fracture	IS 15614-1
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Performance Qualification a) Bend Test (Root/Face/Side) b) Macro Etching c) Fillet Weld Fracture	IS 2825
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Performance Qualification a) Bend Test (Root/Face/Side) b) Macro Etching c) Fillet Weld Fracture	IS 7310 (Pt 1)
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Procedure Qualification (a) Bend Test (Root/Face/Side) (B) Tensile Test (All Weld / Transverse) (c) Macro Etching (d) Hardness Survey (e) Charpy Impact Test (at RT & -20 Deg C) (f) Fillet Weld Fracture	AWS D1.1
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Procedure Qualification (a) Bend Test (Root/Face/Side) (b) Tensile Test (Transverse) (c) Macro Etching (d) Fillet Weld Fracture	ASME Sec. IX
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Procedure Qualification (a) Bend Test (Root/Face/Side) (b) Tensile Test (All Weld / Transverse) (c) Macro Etching (d) Hardness Survey (e) Fillet Weld Fracture	IS 7307 (Pt 1)

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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
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Procedure Qualification (a) Bend Test (Root/Face/Side) (b) Tensile Test (All Weld / Transverse) (c) Macro Etching (d) Hardness Survey (e) Charpy Impact Test (at RT & -20 Deg C) (f) Fillet Weld Fracture	IS 2825
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Procedure Qualification (a) Bend Test (Root/Face/Side) (b) Tensile Test (All Weld / Transverse) (c) Macro Etching (d) Hardness Survey (e) Charpy Impact Test (at RT & -20 Deg C) (f) Fillet Weld Fracture	ISO 15614-1
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Wire Flux Combination Test (a) All Weld Tensile Test (b) Charpy Impact Test (at RT & -20 Deg C)	IRS M39
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Wire Flux Combination Test (c) All Weld Tensile Test (d) Charpy Impact Test (at RT & -20 Deg C)	IRS M46
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Test Coupon	Wire Flux Combination Test (e) All Weld Tensile Test (f) Charpy Impact Test (at RT & -20 Deg C)	IRS 28
204	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Case Depth Measurement (Microscopic Method)	IS 6148
205	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Coating Thickness (Ag,Sn,Zn,Cd,Cu,Ni,Cr)	IS 3203
206	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Depth of Decarburisation (Microscopic Method)	IS 6396
207	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Grain Size Determination (Microscopic Comparison Method	ASTM-E112
208	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Grain Size Determination (Microscopic Comparison Method)	IS 4748
209	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Macro Structural Examination	ASTM-E 340
210	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Macro Structural Examination	ASTM-E 381

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211	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Macro Structural Examination	IS 11371
212	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Micro Structural Examination	ASM Vol.-9
213	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Micro Structural Examination	IS 7739(Pt 1 - Pt 5)
214	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Micro Structural Examination	IS 7754
215	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Non Metallic Inclusion Rating	ASTM-E 45 : Microscopical Method :
216	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Non Metallic Inclusion Rating	IS 4163
217	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Examination of Forging	ASTM A 275

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Site Facility				
1	NON-DESTRUCTIVE-METALS & ALLOYS	Castings	Flaw Detection by A-Scan Contact Method	ASME-SA 609
2	NON-DESTRUCTIVE-METALS & ALLOYS	Castings	Flaw Detection by A-Scan Contact Method	ASTM-A 609
3	NON-DESTRUCTIVE-METALS & ALLOYS	Castings	Flaw Detection by A-Scan Contact Method	ASTM-E 114
4	NON-DESTRUCTIVE-METALS & ALLOYS	Castings	Flaw Detection by A-Scan Contact Method	IS 3664
5	NON-DESTRUCTIVE-METALS & ALLOYS	Castings	Flaw Detection by A-Scan Contact Method	IS 7666
6	NON-DESTRUCTIVE-METALS & ALLOYS	Castings	Flaw Detection by A-Scan Contact Method	IS 9565
7	NON-DESTRUCTIVE-METALS & ALLOYS	Castings	Magnetic Particle Testing (Yoke Type) (Visible & Fluorescent)	IS 7743
8	NON-DESTRUCTIVE-METALS & ALLOYS	Castings	Magnetic Particle Testing(Yoke Type) (Visible & Fluorescent)	IS 3703
9	NON-DESTRUCTIVE-METALS & ALLOYS	Forging	Magnetic Particle Testing(Yoke Type) (Visible & Fluorescent)	ASME-SE 709
10	NON-DESTRUCTIVE-METALS & ALLOYS	Forgings	Flaw Detection by A-Scan Contact Method	ASME-SA 388
11	NON-DESTRUCTIVE-METALS & ALLOYS	Forgings	Flaw Detection by A-Scan Contact Method	ASME-SA 745
12	NON-DESTRUCTIVE-METALS & ALLOYS	Forgings	Flaw Detection by A-Scan Contact Method	ASTM-A 388
13	NON-DESTRUCTIVE-METALS & ALLOYS	Forgings	Flaw Detection by A-Scan Contact Method	ASTM-E 114
14	NON-DESTRUCTIVE-METALS & ALLOYS	Forgings	Flaw Detection by A-Scan Contact Method	IS 11626
15	NON-DESTRUCTIVE-METALS & ALLOYS	Forgings	Flaw Detection by A-Scan Contact Method	IS 3664
16	NON-DESTRUCTIVE-METALS & ALLOYS	Forgings	Flaw Detection by A-Scan Contact Method	IS 8791
17	NON-DESTRUCTIVE-METALS & ALLOYS	Liquid Penetrant Testing of Materials	Liquid Penetrant Testing(Solvent Removable type) (Visible & Fluorescent)	ASME-SE 165

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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
18	NON-DESTRUCTIVE-METALS & ALLOYS	Liquid Penetrant Testing of Materials	Liquid Penetrant Testing(Solvent Removable type) (Visible & Fluorescent)	IS 3658
19	NON-DESTRUCTIVE-METALS & ALLOYS	Pipe/Tube Products	Flaw Detection by A-Scan Contact Method	ASME-SE 213
20	NON-DESTRUCTIVE-METALS & ALLOYS	Pipe/Tube Products	Flaw Detection by A-Scan Contact Method	ASME-SE 273
21	NON-DESTRUCTIVE-METALS & ALLOYS	Pipe/Tube Products	Flaw Detection by A-Scan Contact Method	IS 6394
22	NON-DESTRUCTIVE-METALS & ALLOYS	Plates	Flaw Detection by A-Scan Contact Method	ASME-SA 578
23	NON-DESTRUCTIVE-METALS & ALLOYS	Plates	Flaw Detection by A-Scan Contact Method	ASTM-A 435
24	NON-DESTRUCTIVE-METALS & ALLOYS	Plates	Flaw Detection by A-Scan Contact Method	IS 11630
25	NON-DESTRUCTIVE-METALS & ALLOYS	Plates	Flaw Detection by A-Scan Contact Method	IS 4225
26	NON-DESTRUCTIVE-METALS & ALLOYS	Thickness Measurement	Thickness Measurement	ASME-E 797
27	NON-DESTRUCTIVE-METALS & ALLOYS	Weld	Flaw Detection by A-Scan Contact Method	IS 4260
28	NON-DESTRUCTIVE-METALS & ALLOYS	Weld	Magnetic Particle Testing(Yoke Type) (Visible & Fluorescent)	IS 5334
29	NON-DESTRUCTIVE-METALS & ALLOYS	Welds	Flaw Detection by A-Scan Contact Method	ASME Sec V Art 4
30	NON-DESTRUCTIVE-METALS & ALLOYS	Welds	Flaw Detection by A-Scan Contact Method	IS 7343