SCOPE OF ACCREDITATION

Laboratory Name : ID & RL PRIVATE LIMITED, 33/2A, SATISH MUKHERJEE ROAD, KOLKATA, WEST BENGAL, INDIA

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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- METALS & ALLOYS	Low Alloy Steels	Aluminium	ASTM E415
2	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Aluminium	IS 8811
3	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Carbon	ASTM E415
4	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Carbon	IS 8811
5	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Chromium	ASTM E415
6	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Chromium	IS 8811
7	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Copper	ASTM E415
8	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Copper	IS 8811
9	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Manganese	ASTM E415
10	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Manganese	IS 8811
11	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Molybdenum	ASTM E415
12	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Molybdenum	IS 8811
13	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Nickel	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Nickel	IS 8811
15	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Phosphorus	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Phosphorus	IS 8811
17	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Silicon	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Silicon	IS 8811

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19	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Sulphur	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Sulphur	IS 8811
21	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Vanadium	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Vanadium	IS 8811
23	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Aluminium	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Aluminium	IS 8811
25	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Carbon	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Plain Carbon Steels	Carbon	IS 8811
27	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Chromium	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Chromium	IS 8811
29	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Copper	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Copper	IS 8811
31	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Manganese	ASTM E415
32	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Manganese	IS 8811
33	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Molybdenum	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Molybdenum	IS 8811
35	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Nickel	ASTM E415
36	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Nickel	IS 8811
37	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Phosphorus	ASTM E415

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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
38	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Phosphorus	IS 8811
39	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Silicon	ASTM E415
40	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Silicon	IS 8811
41	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Sulphur	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Sulphur	IS 8811
43	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Vanadium	ASTM E415
44	CHEMICAL- METALS & ALLOYS	Plain Carbon steels	Vanadium	IS 8811
45	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
46	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
47	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
48	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
49	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
50	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
51	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
52	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
53	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
54	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
55	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
56	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879

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57	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
62	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 9879
63	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Elongation	ASTM A370/SA 370
64	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Elongation	ASTM E8/E8M
65	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Elongation	IRS Rule Chapter-3, Sec-2
66	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Elongation	IS 1608 (Part 1)
67	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% R.A	ASME SA370
68	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% R.A	ASTM A370
69	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% R.A	ASTM E8/E8M Cl.,7.12
70	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% R.A	IS 1608 (Part-1)
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	0.2% Proof Stress / off set test and 0.5% Extension under Load	ASTM E8/E8M

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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
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	0.2% Proof Stress / off set test and 0.5% Extension under Load	IRS Rule Chapter-3, Sec-9
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	0.2% Proof Stress / off set test and 0.5% Extension under Load	IS 1608 (Part 1)
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test	ASTM A370 / SA370
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test	IS 1599
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Brinell Hardness	ASTM E10
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Brinell Hardness	IS 1500 (Part 1)
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Impact Test- Charpy (-50 Degree C to Room Temperature)	IS 1757 (Part-1)
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Longitudinal Tensile Test	IRS Rule Chapter-11, Sec-2 Page 7 of 35 & 8 of 35
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Rockwell Hardness 'B' Scale	IS 1586 (Part 1)
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Rockwell Hardness 'C' Scale	IS 1586 (Part 1)
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength	ASTM A370 / SA370
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength	ASTM E8/E8M
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength	IRS Rule Chapter-3 , Sec-2 Page No 14
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength	IS 1608 (Part 1)

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86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield Stress	ASTM A370 / SA370
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield Stress	ASTM E8/E8M
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield Stress	IRS Rule Chapter-3, Sec-2 Page No. 14
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield Stress	IS 1608 (Part 1)
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Face Bend	ASME SEC-IX
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Face Bend	ASTM E190
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Face Bend	IACS-UR-W28 Clause 4.2.2.4 Page No. 5
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Face Bend	IRS Rule Chapter-11, Sec-2 & 3 Page No. 8 & 13
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Root Bend	ASME Sec-IX
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Root Bend	ASTM E190
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Root Bend	AWS D1.1
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Root Bend	IACS-REC-104 Clause No. 4.3.3 Page 10 & 11
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Root Bend	IACS-UR-W28 Clause 4.2.2.4 Page No. 5
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Root Bend	IRS Rule Chapter 11, Sec 2 &3 ,Page 8 & 13

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100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Side Bend	ASME Sec-IX
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Side Bend	ASTM E190
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Side Bend	AWS D1.1
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Side Bend	IACS-REC-104 Clause No. 4.3.3 Page 10 & 11
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Side Bend	IACS-UR-W28 Clause 4.2.2.4 Page No. 4 & 5
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Side Bend	IRS Rule Chapter 11, Sec 6, Page 24
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plates and Tubes	Transverse Tensile Strength	IRS Rule Chapter 11, Sec 2 & 3 , Page 8 & 13
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	% Elongation	ASTM B557
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	% Elongation	ASTM E8/E8M
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	% Elongation	IRS Rule Chapter-9, Sec-2 Page No. 5
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	% Elongation	IS 1608 (Part-1)
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	% R.A	ASTM B557
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	% R.A	ASTM E8/E8M Cl. 7.12
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	% R.A	IRS Rule Chapter-9, Sec-2 Page No. 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
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	% R.A	IS 1608 (Part-1)
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	0.2% Proof Stress	ASTM B557
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	0.2% Proof Stress	ASTM E8/E8M
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	0.2% Proof Stress	IRS Rule Chapter-8, Sec-3 Page No. 6
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	0.2% Proof Stress	IS 1608 (Part-1)
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	0.5% Extension under Load test	IRS Rule Chapter-8, Sec-3 Page No. 6
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Bend Test	IS 1599
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Brinell Hardness Test	ASTM E10
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Brinell Hardness Test	IS 1500 (Part 1)
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Rockwell Hardness Test 'B' Scale	ASTM E18
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Rockwell Hardness Test 'B' Scale	IS 1586 (Part 1)
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Tensile Strength	ASTM B557
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Tensile Strength	ASTM E8/E8M
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Tensile Strength	IRS Rule Chapter-9, Sec-2 Page No. 5

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128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Tensile Strength	IS 1608 (Part-1)
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Yield Stress	ASTM B557
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Yield Stress	ASTM E8/E8M
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Yield Stress	IRS Rule Chapter-9, Sec-2 Page No. 5
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Yield Stress	IS 1608 (Part-1)
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous Welded Plates and Tubes	Face Bend	ASME Sec-IX
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Welded Plates and Tubes	Face Bend	ASTM E190
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Welded Plates and Tubes	Face Bend	IACS-REC-105 Clause 4.3.3 Page 10
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Welded Plates and Tubes	Face Bend	IRS Rule Chapter 11, Sec 8 , Page 34
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Welded Plates and Tubes	Root Bend	ASME Sec-IX
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Welded Plates and Tubes	Root Bend	ASTM E190
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Welded Plates and Tubes	Root Bend	IACS-REC-105 Clause 4.3.3 Page 10
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Welded Plates and Tubes	Root Bend	IRS Rule Chapter 11, Sec 8 , Page 34
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Welded Plates and Tubes	Side Bend	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
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous Welded Plates and Tubes	Side Bend	ASTM E190
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Welded Plates and Tubes	Side Bend	IACS-REC-105 Clause 4.3.3 Page 10
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Welded Plates and Tubes	Side Bend	IRS Rule Chapter 9, Sec 4 , Page 154
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Welded Plates and Tubes	Transverse Tensile Strength	IRS Rule Chapter 11, Sec 8 , Page 33 to 35
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Elongation	IS 1608 (Part 1)
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Mass per meter run	IS 1786 (Cl. 6.3)
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel	Proof Stress	IS 1608 (Part-1)
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Re-Bend Test	IS 1786 (Cl. 9.4)
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Tensile Strength	IS 1608 (Part 1)
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fasteners	Tensile Load/wedge load of bolt, stud and foundation bolt	IS 1367 (Part 3)
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fasteners (Bolt & Nut)	Proof Load	IS 1367 (Part 3)
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fasteners Nut	Proof Load	IS 1367 (Part-6)
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Seamless Steel Pipes	Flaring	ASME SA370
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Seamless Steel Pipes	Flaring	ASTM A370

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156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Seamless Steel Pipes	Flattening	ASME SA370
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Seamless Steel Pipes	Flattening	ASTM A370
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Seamless Steel Pipes	Flattening	IS 2328
159	MECHANICAL-METALLOGRAPHY TEST	Welded Ferrous Materials	Fracture	ASME Sec-IX Cl. QW 182
160	MECHANICAL-METALLOGRAPHY TEST	Welded Ferrous Materials	Fracture	AWS D1.1
161	MECHANICAL-METALLOGRAPHY TEST	Welded Ferrous Materials	Fracture	IACS REC-104 Clause 4.3.5 Page 10
162	MECHANICAL-METALLOGRAPHY TEST	Welded Ferrous Materials	Fracture	IACS-UR-W28, Cl- 4.3.3.4 Page No. 9
163	MECHANICAL-METALLOGRAPHY TEST	Welded Ferrous Materials	Fracture	IS 7307 (Part-1)
164	MECHANICAL-METALLOGRAPHY TEST	Welded Ferrous Materials	Fracture	IS 7310 (Part-1)
165	MECHANICAL-METALLOGRAPHY TEST	Welded Ferrous Materials	Macro Etching	ASME Sec-IX, Cl- QW 183,184
166	MECHANICAL-METALLOGRAPHY TEST	Welded Ferrous Materials	Macro Etching	AWS D1.1
167	MECHANICAL-METALLOGRAPHY TEST	Welded Ferrous Materials	Macro Etching	IACS REC-104 Cl. 4.3.7 Page No 11
168	MECHANICAL-METALLOGRAPHY TEST	Welded Ferrous Materials	Macro Etching	IACS-UR-W28, Cl- 4.3.3.2 Page No 9
169	MECHANICAL-METALLOGRAPHY TEST	Welded Ferrous Materials	Macro Etching	IS 7307 (Part-1)
170	MECHANICAL-METALLOGRAPHY TEST	Welded Ferrous Materials	Macro Etching	IS 7310 (Part-1)
171	MECHANICAL-METALLOGRAPHY TEST	Welded Ferrous Materials	Macro Etching	ISO 17639
172	MECHANICAL-METALLOGRAPHY TEST	Welded Non Ferrous Materials	Fracture	ASME SEC IX Cl. QW 182
173	MECHANICAL-METALLOGRAPHY TEST	Welded Non Ferrous Materials	Fracture	IACS-REC-105 Clause 4.3.5 Page 10

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174	MECHANICAL-METALLOGRAPHY TEST	Welded Non Ferrous Materials	Fracture	IRS Rule Chapter 11, Sec 8 Cl. 8.5.2 Page 35
175	MECHANICAL-METALLOGRAPHY TEST	Welded Non Ferrous Materials	Macro Etching	ASME Sec-IX Cl. QW 183, 184
176	MECHANICAL-METALLOGRAPHY TEST	Welded Non Ferrous Materials	Macro Etching	IACS-REC-105 Cl. 4.3.7 Page No 11
177	MECHANICAL-METALLOGRAPHY TEST	Welded Non Ferrous Materials	Macro Etching	IRS Rule Chapter 8, Sec 3, Page No 15
178	NON-DESTRUCTIVE-METALS & ALLOYS	Austenitic Steel Forgings	Ultrasonic Testing (Manual, Contact method)	ASTM A745
179	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Castings	Ultrasonic Testing (Manual, Contact method)	ASTM A609/A609M
180	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Castings	Ultrasonic Testing (Manual, Contact method)	BS 6208
181	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Castings	Ultrasonic Testing (Manual, Contact method)	IS 7666
182	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Castings	Ultrasonic Testing (Manual, Contact method)	ISO 4992 PART-1
183	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Castings	Ultrasonic Testing (Manual, Contact method)	ISO 4992 PART-2
184	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Forgings	Ultrasonic Testing (Manual, Contact method)	ASTM A388/A388M
185	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Forgings	Ultrasonic Testing (Manual, Contact method)	ASTM A503
186	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Forgings	Ultrasonic Testing (Manual, Contact method)	IS 8791
187	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Material for welds	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	IS 5334
188	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	ASME SEC-V Article 7
189	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	ASTM A275

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190	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	ASTM E1444
191	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	ASTM E709
192	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	IS 10543
193	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	IS 12147
194	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	IS 3703
195	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	IS 6752
196	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	ISO 9934 PART-1
197	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Materials	Liquid Penetrant test (Water Washable, Fluorescent, Solvent removable)	ASME BPVC Sec-V, Article 6
198	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Materials	Liquid Penetrant test (Water Washable, Fluorescent, Solvent removable)	ASTM E165
199	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Materials	Liquid Penetrant test (Water Washable, Fluorescent, Solvent removable)	BS EN 1371-1
200	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Materials	Liquid Penetrant test (Water Washable, Fluorescent, Solvent removable)	IS 3658
201	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Materials	Liquid Penetrant test (Water Washable, Fluorescent, Solvent removable)	ISO 3452 Part-1

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202	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non ferrous Materials	Ultrasonic Thickness gauging	ASTM E797/E797M
203	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non ferrous Materials	Ultrasonic Thickness gauging	ISO 16809
204	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non-Ferrous structural joints and welding	Visual Testing	ASME SEC-V Article 9
205	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non-Ferrous structural joints and welding	Visual Testing	AWS D1.1
206	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non-Ferrous structural joints and welding	Visual Testing	ISO 17637
207	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous materials steel forging	Ultrasonic Testing (Manual, Contact method)	BS EN 10228 Part-3
208	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Pipe & Tube	Ultrasonic Testing (Manual, Contact method)	ASTM E273
209	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Pipe & Tube	Ultrasonic Testing (Manual, Contact method)	IS 7343
210	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Pipe & Tube	Ultrasonic Testing (Manual, Contact method)	ASTM E213
211	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Plates	Ultrasonic Testing (Manual, Contact method)	ASTM A435
212	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Plates	Ultrasonic Testing (Manual, Contact method)	ASTM A577
213	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Plates	Ultrasonic Testing (Manual, Contact method)	ASTM A578
214	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Plates	Ultrasonic Testing (Manual, Contact method)	IS 4225
215	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Plates	Ultrasonic Testing (Manual, Contact method)	ISO 4386 Part-1
216	NON-DESTRUCTIVE-METALS & ALLOYS	Welding for Ferritic Steel	Ultrasonic Testing (Manual, Contact method)	ASME SEC-V Article 4
217	NON-DESTRUCTIVE-METALS & ALLOYS	Welding for Ferritic Steel	Ultrasonic Testing (Manual, Contact method)	ASTM E164
218	NON-DESTRUCTIVE-METALS & ALLOYS	Welding for Ferritic Steel	Ultrasonic Testing (Manual, Contact method)	IS 4260
219	NON-DESTRUCTIVE-METALS & ALLOYS	Welding for Ferritic Steel	Ultrasonic Testing (Manual, Contact method)	ISO 17640
220	NON-DESTRUCTIVE-METALS & ALLOYS	Welding for Ferritic Steel	Ultrasonic Testing (Manual, Contact method)	AWS D1.1

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221	NON-DESTRUCTIVE-METALS & ALLOYS	Welding for Ferritic Steel	Ultrasonic Testing (Manual, Contact method)	IS 3664
222	NON-DESTRUCTIVE-METALS & ALLOYS	White Metal bonded bearing	Ultrasonic Testing (Manual, Contact method)	ISO 4386 Part-1

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Site Facility				
1	NON-DESTRUCTIVE-METALS & ALLOYS	Austenitic Steel Forgings	Ultrasonic Testing (Manual, Contact method)	ASTM A745
2	NON-DESTRUCTIVE-METALS & ALLOYS	Butt welded steel plates	Radiography Testing (Ir-192, Film)	IS 1182
3	NON-DESTRUCTIVE-METALS & ALLOYS	Butt welded steel plates	Radiography Testing (X-ray, Film)	IS 1182
4	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Castings	Ultrasonic Testing (Manual, Contact method)	ASTM A609/A609M
5	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Castings	Ultrasonic Testing (Manual, Contact method)	BS 6208
6	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Castings	Ultrasonic Testing (Manual, Contact method)	IS 7666
7	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Castings	Ultrasonic Testing (Manual, Contact method)	ISO 4992 PART-1
8	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Castings	Ultrasonic Testing (Manual, Contact method)	ISO 4992 PART-2
9	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Forgings	Ultrasonic Testing (Manual, Contact method)	ASTM A388/A388M
10	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Forgings	Ultrasonic Testing (Manual, Contact method)	ASTM A503
11	NON-DESTRUCTIVE-METALS & ALLOYS	Ferritic Steel Forgings	Ultrasonic Testing (Manual, Contact method)	IS 8791
12	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Material for welds	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	IS 5334
13	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	ASME SEC-V Article 7
14	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	ASTM A275
15	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	ASTM E1444

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16	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	ASTM E709
17	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	IS 10543
18	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	IS 12147
19	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	IS 3703
20	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	IS 6752
21	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Casting, Forging. Welding, tube & pipe)	Magnetic Particle test (Prod, Yoke, Head Shot, Non Fluorescent & Fluorescent, Wet, Dry)	ISO 9934 PART-1
22	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Casting	Radiography Testing (X-ray, Film)	ASTM E1030/E1030M
23	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Casting	Radiography Testing (Ir-192, Film)	ASTM E1030/E1030M
24	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Materials	Liquid Penetrant test (Water Washable, Fluorescent, Solvent removable)	ASME BPVC Sec-V, Article 6
25	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Materials	Liquid Penetrant test (Water Washable, Fluorescent, Solvent removable)	ASTM E165
26	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Materials	Liquid Penetrant test (Water Washable, Fluorescent, Solvent removable)	BS EN 1371-1
27	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Materials	Liquid Penetrant test (Water Washable, Fluorescent, Solvent removable)	IS 3658

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28	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Materials	Liquid Penetrant test (Water Washable, Fluorescent, Solvent removable)	ISO 3452 Part-1
29	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non ferrous Materials	Ultrasonic Thickness gauging	ASTM E797/E797M
30	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non ferrous Materials	Ultrasonic Thickness gauging	ISO 16809
31	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous welded joints, Plates & Casting	Radiography Testing (Ir-192, Film)	ASME SEC-V Article-2 & 22
32	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous welded joints, Plates & Casting	Radiography Testing (Ir-192, Film)	IS 2595
33	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous welded joints, Plates & Casting	Radiography Testing (Ir-192, Film)	ASTM E94
34	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous welded joints, Plates & Casting	Radiography Testing (Ir-192, Film)	AWS D1.1
35	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous welded joints, Plates & Casting	Radiography Testing (X-ray, Film)	ASME SEC-V Article-2 & 22
36	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous welded joints, Plates & Casting	Radiography Testing (X-ray, Film)	ASTM E94
37	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous welded joints, Plates & Casting	Radiography Testing (X-ray, Film)	AWS D1.1
38	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous welded joints, Plates & Casting	Radiography Testing (X-ray, Film)	IS 2595
39	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non-Ferrous structural joints and welding	Visual Testing	ASME SEC-V Article 9
40	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non-Ferrous structural joints and welding	Visual Testing	AWS D1.1
41	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non-Ferrous structural joints and welding	Visual Testing	ISO 17637
42	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous materials steel forging	Ultrasonic Testing (Manual, Contact method)	BS EN 10228 Part-3
43	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Pipe & Tube	Ultrasonic Testing (Manual, Contact method)	ASTM E273
44	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Pipe & Tube	Ultrasonic Testing (Manual, Contact method)	IS 7343
45	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Pipe & Tube	Ultrasonic Testing (Manual, Contact method)	ASTM E213

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46	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Plates	Ultrasonic Testing (Manual, Contact method)	ASTM A435
47	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Plates	Ultrasonic Testing (Manual, Contact method)	ASTM A577
48	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Plates	Ultrasonic Testing (Manual, Contact method)	ASTM A578
49	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Plates	Ultrasonic Testing (Manual, Contact method)	IS 4225
50	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Plates	Ultrasonic Testing (Manual, Contact method)	ISO 4386 Part-1
51	NON-DESTRUCTIVE-METALS & ALLOYS	Welding for Ferritic Steel	Ultrasonic Testing (Manual, Contact method)	ASME SEC-V Article 4
52	NON-DESTRUCTIVE-METALS & ALLOYS	Welding for Ferritic Steel	Ultrasonic Testing (Manual, Contact method)	ASTM E164
53	NON-DESTRUCTIVE-METALS & ALLOYS	Welding for Ferritic Steel	Ultrasonic Testing (Manual, Contact method)	IS 4260
54	NON-DESTRUCTIVE-METALS & ALLOYS	Welding for Ferritic Steel	Ultrasonic Testing (Manual, Contact method)	ISO 17640
55	NON-DESTRUCTIVE-METALS & ALLOYS	Welding for Ferritic Steel	Ultrasonic Testing (Manual, Contact method)	AWS D1.1
56	NON-DESTRUCTIVE-METALS & ALLOYS	Welding for Ferritic Steel	Ultrasonic Testing (Manual, Contact method)	IS 3664
57	NON-DESTRUCTIVE-METALS & ALLOYS	White Metal bonded bearing	Ultrasonic Testing (Manual, Contact method)	ISO 4386 Part-1