National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NDT METAL SOLUTION LABORATORY, B1/3/9/10 NAVEENA TELCO ROAD, PIMPRI, PUNE, MAHARASHTRA, 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	Galvanized, Painted, Plated Products, Metallic Products and Row Material	Salt Spray test	ASTM B 117
2	CHEMICAL- CORROSION TESTS	Galvanized, Painted, Plated Products, Metallic Products and Row Material	Salt Spray Test	IS 6910
3	CHEMICAL- CORROSION TESTS	Galvanized, Painted, Plated Products, Metallic Products and Row Material	Salt Spray Test	ISO 9227
4	CHEMICAL- METALS & ALLOYS	Alluminium & its Alloys	Iron	IS 11035
5	CHEMICAL- METALS & ALLOYS	Aluminiium & its alloys	Chromium	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloy	Silicon	IS 11035
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	IS 11035
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	IS 11035
13	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E 1251
14	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS 11035
15	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E 1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E 1251
17	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E 1251
18	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E 1251

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19	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 1251
20	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS 11035
21	CHEMICAL- METALS & ALLOYS	Alumium & its alloys	Copper	IS 11035
22	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	IS 15338
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminum	ASTM E 1999
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E 1999
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 15338
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E 1999
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 15338
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E 1999
29	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E 1999
31	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 15338
32	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E 1999
33	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS 15338
34	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E 1999
35	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 15338
36	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 1999
37	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 15338

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38	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E 1999
39	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 15338
40	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulfur	ASTM E 1999
41	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulfur	IS 15338
42	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Lead	BS EN 15079
43	CHEMICAL- METALS & ALLOYS	Copper base Alloy	Zinc	BS EN 15079
44	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Aluminium	BS EN 15079
45	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Iron	BS EN 15079
46	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Nickel	BS EN 15079
47	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Phosphours	BS EN 15079
48	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Silicon	BS EN 15079
49	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Sulphur	BS EN 15079
50	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Tin	BS EN 15079
51	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Carbon	IS 8811
52	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium	ASTM E 415
53	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	ASTM E 415
54	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	IS 8811
55	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminum	ASTM E 415
56	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminum	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
57	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	ASTM E 415
58	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	ASTM E 415
59	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 8811
60	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	ASTM E 415
61	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	IS 8811
62	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	ASTM E 415
63	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 8811
64	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	ASTM E 415
65	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	IS 8811
66	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	ASTM E 415
67	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	IS 8811
68	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	ASTM E 415
69	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	IS 8811
70	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E 415
71	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 8811
72	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulfur	ASTM E 415
73	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulfur	IS 8811
74	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	ASTM E 415
75	CHEMICAL- METALS & ALLOYS	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
76	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1086
77	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
78	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086
79	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
80	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
81	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
82	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
83	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
84	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E 1086
85	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
86	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E 1086
87	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
88	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	JIS 1253
89	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	JIS 1253
90	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 1086
93	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	ASTM E 1086

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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
95	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	IS 9879
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JIS 1253:2002 Revised 2013
97	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS 1253
98	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS 1253
99	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS 1253
100	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS 1253
101	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS 1253
102	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	JIS 1253
103	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	JIS 1253
104	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulfur	JIS 1253
105	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS 1253
106	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS 1253
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper, Brass, Nickel-Chrom,Nickel, Hard Chrom Material	Determination of Coating Thickness by Microscopic method	IS 3203
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Fastners & Nuts	Proof Load Test - (600 kN Max load M6,M8,M10,M12,M14, M16,M20,M24,M30, M32,M36)	ASTM B 196
109	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Fastners & Nuts	Proof Load Test - (600 kN Max load M6,M8,M10,M12,M14,M16,M20 , M24,M30,M32,M36)	IS 1367- 2004 PART 6
110	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Fastners & Nuts	Proof Load Test - (600 kN Max load M6,M8,M10,M12,M14,M16,M20 ,M24,M30,M32,M36)	ISO 898 - 2

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111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrou & Non Ferrous Metal (Sheet Metal)	Erichsen Cupping	IS 10175
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials -Product test specimens	Bend Test (Mandrel Diameter: 5 mm, 6 mm, 8 mm, 10 mm, 12 mm, 14 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 44 mm, 48 mm, 50 mm, 64 mm,75mm,80 mm,85mm, 90mm)	ISO 7438
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials -Product, Welds and welded test specimens	Charpy Imapct Test (V Notch) (Ambient to (-)196°C)	ISO 9016
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials -Product, Welds and welded test specimens	Elongation	ISO 5178
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials -Product, Welds and welded test specimens	Fracture Test	ISO 9017
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials -Product, Welds and welded test specimens	Ultimate Tensile Strength	ISO 9018
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials -Product, Welds and welded test specimens	Ultimate Tensile Strength (Up to 600 kN)	ISO 5178
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials -Product, Welds and welded test specimens	Vickers Hardness Test (HV 10)	EN ISO 9015 : 1
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials -Product, Welds and welded test specimens	Vickers Hardness Test (HV 30)	EN ISO 9015 : 1
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials -Product, Welds and welded test specimens	Vickers Hardness Test (HV 5)	EN ISO 9015:1
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials -Product, Welds and welded test specimens	Yield Stress	ISO 5178
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Elongation	ASTM A 370

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123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Elongation	ASTM E 8/E8M
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Elongation	IS 1608 - Part 1
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Elongation	ISO 6892-1
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Proof Stress	ASTM A 370
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Proof Stress	ASTM E8/E8 M :16a
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Proof Stress	IS 1608 -Part 1
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Proof Stress	ISO 6892 -1
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Reduction Area	ASTM A 370
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Reduction Area	ASTM E 8/E8M
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non ferrous Metal	Reduction Area	IS 1608
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Reduction Area	ISO 6892-1
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Tensile Strength	ASTM A 370
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Tensile Strength	ASTM E 8/E8M
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non ferrous Metal	Tensile Strength	IS 1608-Part 1

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137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Tensile Strength	ISO 6892-1
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Yield Strength	ASTM A 370
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Yield Strength	ASTM E 8/E8M
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Yield Strength	IS 1608 - Part 1
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Yield Strength	ISO 6892 - 1
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal & Alloys	Portable hardness Test (Leeb Hardnes)	ASTM A 956
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal (Sheet Metal)	Erichsen Cupping	IS 10175
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous metal (Sheet Metal)	Erichsen Cupping	ISO 20482
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Pipes & Tubes	Flaring/Drift Expansion Test (UPTO 150 mm OD) Max applied load 600 kN)	ASTM A 370
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Pipes & Tubes	Flaring/Drift Expansion Test (UPTO 150 mm OD) Max applied load 600 kN)	IS 2335
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Pipes & tubes	Flaring/Drift Expansion Test (UPTO 150 mm OD) Max applied load 600 kN)	ISO 8493
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous , Aluminium, Copper alloys	Brinell Hardness - HBW 2.5/187.5	IS 1500 PART 1
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous ,Aluminium & Copper Alloys	Rockwell Hardness - HRBW	ISO 6508 - 1
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous ,Aluminium & Copper Alloys	Rockwell Hardness - HRA	ASTM A 370

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151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Alluminium & Copper Alloys	Rockwell Hardness - HRC	ASTM A 370
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	IZOD Impact Test - (Ambient temerature)	IS 1598
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material & Alloys	Brinell Hardness - HBW (10/3000)	ASTM A 370
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material & Alloys	Brinell Hardness - HBW (5/750)	ASTM E 10
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material & alloys	Rockwell Hardness - HRBW	ASTM A 370
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material &Alloys	Brinell Hardness - HBW (5/750)	ASTM A 370
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Hardenability of steel by end quench of Jominy Test	IS 3848
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Alluminium & Copper Alloys	Rockwell hardness - HRC	ASTM E 18
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium & Copper Alloys	Rockwell Hardness - HRC	ISO 6508 - 1
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium and Copper alloys	Brinell Hardness - HBW 2.5/187.5	ASTM E 10
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium,Copper alloys	Rockwell Hardness Test - HRA	IS 1586 - 1
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium & Copper Alloys	Brinell Hardness - HBW (5/750)	ISO 6506 - 1
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium & Copper Alloys	Brinell Hardness - HBW (10/3000)	ASTM E 10
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium & Copper Alloys	Brinell Hardness - HBW (10/3000)	IS 1500 PART 1

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165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium & Copper Alloys	Brinell Hardness - HBW (10/3000)	ISO 6506 - 1
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium & Copper Alloys	Brinell Hardness (Dia 2.5/62.5 Kg)	ISO 6506 Part 1:2014, IS 1500 PART 1
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium & Copper Alloys	Brinell Hardness -HBW (5/750)	IS 1500 PART 1
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium & Copper Alloys	Rockwell Hardness - HRA	ISO 6508 - 1
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium & Copper Alloys	Rockwell Hardness - HRBW	ASTM E 18
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium & Copper Alloys	Rockwell Hardness - HRBW	IS 1586 PART 1
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium & Copper Alloys	Rockwell Hardness - HRC	IS 1586 PART 1
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium & Copper Alloys	Rockwell Hardness Test - HRA	ASTM E 18
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium ,Copper,Nickel,titanium material & their alloys	Charpy Impact Test - V Notch /u notch (Ambient temerature to -196°c)	ISO 148 : 1
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium ,Copper,Nickel,titanium material & their alloys	Charpy Impact Test - V Notch/U Notch (-60 to 35°C)	IS 1757 PART 1
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium ,Copper,Nickel,titanium material & their alloys	Charpy Impact test: V Notch/U Notch (-60 to 35°C)	IS 1499-1977
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium,Copper,Nickel,Titanium material & their alloys	Bend	ASTM SA370
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium,Copper,Nickel,Titanium material & their alloys	BEND TEST	ASTM A 370
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium,Copper,Nickel,Titanium material & their alloys	Bend Test	IS 1599

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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
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous,Aluminium,Copper,Nickel,Titanium material & their alloys	BEND TEST	ISO 7438
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Test	Flattening Test	ASTM A 370
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Test	Flattening Test	ASTM A 999/999M
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Test	Flattening Test	IS 2328
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Bend Test (Mandrel Diameter: 5 mm, 6 mm, 8 mm, 10 mm, 12 mm, 14 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 44 mm, 48 mm, 50 mm, 64 mm,75mm,80 mm,85mm, 90mm))	ISO 5173
184	MECHANICAL-METALLOGRAPHY TEST	Austentic Stainless Steel	Resistance to inter granular corrosion tests Practice A	ASTM A 262
185	MECHANICAL-METALLOGRAPHY TEST	Austentic Stainless Steel	Resistance to inter granular corrosion tests Practice B	ASTM A 262
186	MECHANICAL-METALLOGRAPHY TEST	Austentic Stainless Steel	Resistance to inter granular corrosion tests Practice E	ASTM A 262
187	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure	ISO 945 -1
188	MECHANICAL-METALLOGRAPHY TEST	Cast Iron,Gray Iron,metallable Iron,Ductille Iron/SG iron	Graphite type distribution size nodularity & nodule count)	ISO 945 PART 1
189	MECHANICAL-METALLOGRAPHY TEST	Cast Iron/ Gray Irons / Metallable Iron / Ductile Iron/ SG Iron	Graphite type distribution size nodularity & nodule count)	IS 7754
190	MECHANICAL-METALLOGRAPHY TEST	Cast Iron/Gray Iron/Metallable,Iron Ductile Iron/SG iron	Graphite type distribution size nodularity & nodule count)	ASTM A 247
191	MECHANICAL-METALLOGRAPHY TEST	Ferrous Alloys and Metallic Materials	Micro vickers Hardness	IS 1501 PART 1
192	MECHANICAL-METALLOGRAPHY TEST	Ferrous Alloys and Metallic Materials	Micro Vickers Hardness	ISO 6507 PART 1
193	MECHANICAL-METALLOGRAPHY TEST	Ferrous Alloys and Metallic Materials	Micro Vickers Hardness (HV 0.1)	IS 1501

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194	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Grain Size by microscopic method	IS 4748
195	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Grain Size by microscopic method	ISO 643
196	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Macro Examination	AWS D 1.2
197	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Case Depth by microscopic method	IS 6416
198	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Decarb Measurment by microscopic method & Hardness method	IS 6396
199	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Decarb Measurment by microscopic method & Hardness method	ISO 3887
200	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials	Grain Size by Microscopic method	ASTM E 112
201	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials	Grain Size by microscopic method	ISO 643
202	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Inclusion Rating Method A	ASTM E 45
203	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Inclusion Rating Method A	IS 4163
204	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials	Inclusion Rating Method A	ISO 4967
205	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Macro etch test	ASTM E 340
206	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Macro etch test	IS 11371
207	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Macro Examination	IS 13015
208	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metal	Decarb Measurment by microscopic method & Hardness method	ASTM E 1077
209	MECHANICAL-METALLOGRAPHY TEST	Ferrous Method A	Inclusion Rating	IS 4163
210	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Aluminium & Copper Alloys	Brinell Hardness - HBW 2.5/187.5	ISO 6506 Part I
211	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Non Ferrous and its alloys	Micro Vicker Hardness (HV 0.1)	ISO 6507 :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
212	MECHANICAL-METALLOGRAPHY TEST	Ferrous,Alluminium,Copper Alloys	Microstructure	ASM HANDBOOK VOL.9
213	MECHANICAL-METALLOGRAPHY TEST	Sheets, Plates,Weldments of ferrous & Non ferrous Metal	Weld Joints ,Welding fusion,Weldedjoint,Macro & Dimensional measurment of weld joint (10X to 40X)	BS EN ISO 9606
214	MECHANICAL-METALLOGRAPHY TEST	Sheets,Plates weldments of ferrous & non ferrous	Weld Joints ,Welding fusion,Weldedjoint,Macro & Dimensional measurment of weld joint	IS 3600 PART 9
215	MECHANICAL-METALLOGRAPHY TEST	Sheets,Plates weldments of Ferrous & Non ferrous metals	Weld Joints ,Welding fusion,Weldedjoint,Macro & Dimensional measurment of weld join (10X to 40x)	ASTM E 340
216	MECHANICAL-METALLOGRAPHY TEST	Sheets,Plates weldments of Ferrous & Non ferrous metals	Weld Joints ,Welding fusion,Weldedjoint,Macro & Dimensional measurment of weld join (5X,10X,20X,40X)	ISO 17639
217	MECHANICAL-METALLOGRAPHY TEST	Sheets,Plates,wledments of ferrous and Non ferrous Metal	Weld Joints ,Welding fusion,Weldedjoint,Macro & Dimensional measurment of weld joint (5X to 40 X)	ASME SECTION IX
218	MECHANICAL-METALLOGRAPHY TEST	Steel blooms, bars, billets	macro etch test	ASTM E 381