National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ASR METALLURGY PRIVATE LIMITED, 195, NORTH NEW LAYOUT, SONARI, JAMSHEDPUR, EAST SINGHBUM, JHARKHAND, 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	Coated Products / Panets / Raw Material / Galvanized Products / Panets / Raw Material / Plastic and Polymer Components / Raw Materials	Salt Spray Test	ASTM B117
2	CHEMICAL- CORROSION TESTS	Zinc coating	Zinc coating thickness weight analysis	IS 277
3	CHEMICAL- CORROSION TESTS	Zinc Coating	Zinc Coating thickness weight analysis	IS 6745
4	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Chromium	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Chromium	IS 11035
6	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Copper	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Copper	IS 11035
8	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Iron	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Iron	IS 11035
10	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Lead	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Magnesium	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Magnesium	IS 11035
13	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Manganese	ASTM E1251
14	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Manganese	IS 11035
15	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Nickel	ASTM E1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Silicon	ASTM E1251
17	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Silicon	IS 11035
18	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Titanium	ASTM E1251

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19	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Titanium	IS 11035
20	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminum Base Alloys	Zinc	ASTM E1251
21	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminum Base Alloys	Zinc	IS 11035
22	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Tin	ASTM E1251
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E1999
29	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
31	CHEMICAL- METALS & ALLOYS	Plain carbon / Low Alloy	Sulphur	IS 8811
32	CHEMICAL- METALS & ALLOYS	Plain Carbon / Low Alloy Steel	Aluminium	IS 8811
33	CHEMICAL- METALS & ALLOYS	Plain Carbon / Low Alloy Steel	Carbon	IS 8811
34	CHEMICAL- METALS & ALLOYS	Plain Carbon / Low Alloy Steel	Chromium	IS 8811
35	CHEMICAL- METALS & ALLOYS	Plain Carbon / Low Alloy Steel	Cobalt	IS 8811
36	CHEMICAL- METALS & ALLOYS	Plain Carbon / Low Alloy Steel	Copper	IS 8811
37	CHEMICAL- METALS & ALLOYS	Plain Carbon / Low Alloy Steel	Manganese	IS 8811

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38	CHEMICAL- METALS & ALLOYS	Plain Carbon / Low Alloy Steel	Molybdenum	IS 8811
39	CHEMICAL- METALS & ALLOYS	Plain Carbon / Low Alloy Steel	Nickel	IS 8811
40	CHEMICAL- METALS & ALLOYS	Plain Carbon / Low Alloy Steel	Phosphorus	IS 8811
41	CHEMICAL- METALS & ALLOYS	Plain Carbon / Low Alloy Steel	Silicon	IS 8811
42	CHEMICAL- METALS & ALLOYS	Plain Carbon / Low Alloy Steel	Vanadium	IS 8811
43	CHEMICAL- METALS & ALLOYS	Plain carbon/Low Alloy	Aluminium	ASTM E415
44	CHEMICAL- METALS & ALLOYS	Plain carbon/Low Alloy	Carbon	ASTM E415
45	CHEMICAL- METALS & ALLOYS	Plain carbon/Low Alloy	Chromium	ASTM E415
46	CHEMICAL- METALS & ALLOYS	Plain carbon/Low Alloy	Cobalt	ASTM E415
47	CHEMICAL- METALS & ALLOYS	Plain carbon/Low Alloy	Copper	ASTM E415
48	CHEMICAL- METALS & ALLOYS	Plain carbon/Low Alloy	Maganese	ASTM E415
49	CHEMICAL- METALS & ALLOYS	Plain carbon/Low Alloy	Molybdenum	ASTM E415
50	CHEMICAL- METALS & ALLOYS	Plain carbon/Low Alloy	Nickel	ASTM E415
51	CHEMICAL- METALS & ALLOYS	Plain carbon/Low Alloy	Nitrogen	ASTM E415
52	CHEMICAL- METALS & ALLOYS	Plain carbon/Low Alloy	Phosphorus	ASTM E415
53	CHEMICAL- METALS & ALLOYS	Plain carbon/Low Alloy	Silicon	ASTM E415
54	CHEMICAL- METALS & ALLOYS	Plain carbon/Low Alloy	Sulphur	ASTM E415
55	CHEMICAL- METALS & ALLOYS	Plain carbon/Low Alloy	Vanadium	ASTM E415
56	CHEMICAL- METALS & ALLOYS	Stainless Steel (Cr-Ni Alloy)	Carbon	IS 9879

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57	CHEMICAL- METALS & ALLOYS	Stainless Steel (Cr-Ni Alloy)	Chromium	IS 9879
58	CHEMICAL- METALS & ALLOYS	Stainless Steel (Cr-Ni Alloy)	Copper	IS 9879
59	CHEMICAL- METALS & ALLOYS	Stainless Steel (Cr-Ni Alloy)	Manganese	IS 9879
60	CHEMICAL- METALS & ALLOYS	Stainless Steel (Cr-Ni Alloy)	Molybdenum	IS 9879
61	CHEMICAL- METALS & ALLOYS	Stainless Steel (Cr-Ni Alloy)	Nickel	IS 9879
62	CHEMICAL- METALS & ALLOYS	Stainless Steel (Cr-Ni Alloy)	Phosphorus	IS 9879
63	CHEMICAL- METALS & ALLOYS	Stainless Steel (Cr-Ni Alloy)	Silicon	IS 9879
64	CHEMICAL- METALS & ALLOYS	Stainless Steel (Cr-Ni Alloy)	Sulphur	IS 9879
65	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS G1253
66	CHEMICAL- METALS & ALLOYS	Tool steel	Chromium	JIS G1253
67	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS G1253
68	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS G1253
69	CHEMICAL- METALS & ALLOYS	Tool Steel	Nickel	JIS G1253
70	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorous	JIS G1253
71	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	JIS G1253
72	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	JIS G1253
73	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS G1253
74	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS G1253

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75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolts and Screws	Proof Load Test	IS 1367 (Part 3)
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Deformed Steel Bars	% Elongation	IS 1608
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Deformed Steel Bars	0.2 % Yield Stress	IS 1608
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Deformed Steel Bars	Bend/Rebend Test	IS 1786
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Deformed Steel Bars	Mass Per Meter Run	IS 1786
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Deformed Steel Bars	Tensile Test	IS 1608
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous	Rockwell Hardness test (HRBW)	ASTM A370
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous	Rockwell Hardness test (HRBW)	ASTM E18
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous	Rockwell Hardness test (HRBW)	IS 1586 (Part 1)
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Bend Test	IS 277
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Compression Test	IS 7906 (Part 5)
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Elongation	ASTM A370
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Elongation	ASTM E8/8M
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Elongation	IS 1608 (Part 1)

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89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% R.A	ASTM E8/8M
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% R.A	IS 1608 (Part 1)
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% R.A.	ASTM A370
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	0.1% Proof Stress	ASTM A370
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	0.1% Proof Stress	ASTM E8/8M
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	0.1% Proof Stress	IS 1608 (Part 1)
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	0.2% Proof Stress	ASTM A370
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	0.2% Proof Stress	ASTM E8/8M
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	0.2% Proof Stress	IS 1608 (Part 1)
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test	ASTM A370
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test	IS 1599
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test (Tube)	IS 2329
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Breaking Load Test	IS 1608 (Part 1)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Brinell Hardness Test (HBW 10/3000)	ASTM A370

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103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Brinell Hardness Test (HBW 10/3000)	ASTM E10
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Brinell Hardness Test (HBW 10/3000)	IS 1500 (Part 1)
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Brinell Hardness Test (HBW 5/750)	ASTM A370
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Brinell Hardness Test (HBW 5/750)	ASTM E10
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Brinell Hardness Test (HBW 5/750)	IS 1500 (Part 1)
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Drift Expansion Test	IS 2335
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Flattening	IS 2328
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Impact Test- Charpy	IS 1757 (Part 1)
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Micro Vickers Hardness Test (HV 0.2 kgf)	ASTM E384
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Micro Vickers Hardness Test (HV 0.2 kgf)	IS 1501 (Part 1)
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Micro Vickers Hardness Test (HV 0.5 kgf)	ASTM E384
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Micro Vickers Hardness Test (HV 1 kgf)	ASTM E384
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Micro Vickers Hardness Test (HV 1 kgf)	IS 1501 (Part 1)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Micro Vickers Hardness Test(HV 0.5 kgf)	IS 1501 (Part 1)

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117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Rockwell Hardness Test (HRC)	IS 1586 (Part 1)
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Rockwell Hardness Test (HRC)	ASTM A370
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Rockwell Hardness Test (HRC)	ASTM E 18
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength	ASTM A370
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength	ASTM E 8/8M
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength	IS 1608 (Part 1)
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Vickers Hardness Test (HV 10 kgf)	ASTM E92
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Vickers Hardness Test (HV 10 kgf)	IS 1501 (Part 1)
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Vickers Hardness Test (HV 30 kgf)	ASTM E92
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Vickers Hardness Test (HV 30 kgf)	IS 1501 (Part 1)
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Vickers Hardness Test (HV 5 kgf)	ASTM E92
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Vickers Hardness Test (HV 5 kgf)	IS 1501 (Part 1)
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Yield Stress	ASTM A 370
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Yield Stress	ASTM E8 / E8M

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131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Yield Stress	IS 1608 (Part 1)
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	% of Elongation	ASTM E8/E8M
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	% of Elongation	IS 1608 (Part 1)
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	% R.A.	ASTM E8/E8M
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	% R.A.	IS 1608 (Part 1)
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Breaking Load Test	IS 1608 (Part 1)
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Brinell Hardness Test (HBW 10/3000)	ASTM E10
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Brinell Hardness Test (HBW 10/3000)	IS 1500 (Part 1)
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Brinell Hardness Test (HBW 5/750)	ASTM E10
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Brinell Hardness Test (HBW 5/750)	IS 1500 (Part 1)
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Micro Vickers Hardness Test (HV 0.2 kgf)	ASTM E384
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Micro Vickers Hardness Test (HV 0.2 kgf)	IS 1501 (Part 1)
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Micro Vickers Hardness Test (HV 0.5 kgf)	ASTM E384
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Micro Vickers Hardness Test (HV 0.5 kgf)	IS 1501 (Part 1)

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145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Micro Vickers Hardness Test (HV 1 kgf)	ASTM E384
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Micro Vickers Hardness Test (HV 1 kgf)	IS 1501 (Part 1)
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Rockwell Hardness Test (HRBW)	ASTM E18
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Rockwell Hardness Test (HRBW)	IS 1586 (Part 1)
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Tensile Strength	ASTM E8/E8M
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Tensile Strength	IS 1608 (Part 1)
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Vickers Hardness Test (HV 10 kgf)	ASTM E92
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Vickers Hardness Test (HV 10 kgf)	IS 1501 (Part 1)
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Vickers Hardness Test (HV 30 kgf)	ASTM E92
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Vickers Hardness Test (HV 5 kgf)	ASTM E92
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Vickers Hardness Test(HV 30 kgf)	IS 1501 (Part 1)
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Vickers Hardness Test(HV 5 kgf)	IS 1501 (Part 1)
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Yield Stress	ASTM E8/E8M
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Yield Stress	IS 1608 (Part 1)

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159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut	Proof Load Test	IS 1367 (Part 6)
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fastners, Nuts, Bolts & Screws	Proof Load Test	ASTM A370
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weldes & welded test specimens	Yield Strength	ASME Section IX (QW - 150)
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Specimens	Transverse Tensile on Weld	ISO 4136
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test (Face, Root & Side)	ASME Section IX (QW-160)
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Transverse Bend on Weld	ISO 5173
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Transverse Tensile on Weld	ASME Section IX (QW-150)
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Weld Impact Test	ISO 148 Part 1
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Yield Strength	ISO 4136
168	MECHANICAL-METALLOGRAPHY TEST	Electroplated coating	Coating thickness by Microscopic Method	IS 3203
169	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-Ferrous Materials & Products	Macro Structure Ananlysis	ASTM E 340
170	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals	Flake Analysis	ASTM A247
171	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals	Flake Analysis	IS 7754
172	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals	Nodularity Analysis	ASTM A247
173	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals	Nodularity Analysis	IS 7754

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Validity 11/09/2022 to 10/09/2024 **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
174	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & Welded test Specimens	Estimation of Austenitic grain size for steel by Comparison method	ASTM E112
175	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & Welded test Specimens	Microscopic Examination of Microstructure	ASM Metals Handbook, Volume-09
176	MECHANICAL-METALLOGRAPHY TEST	Metal & Oxide coatings	Coating Thickness by Microscopic Method	ASTM B487
177	MECHANICAL-METALLOGRAPHY TEST	Non Ferrous Metals & Welded Test Specimens	Estimation of Grain Size	IS 4748
178	MECHANICAL-METALLOGRAPHY TEST	Non Ferrous Metals & Welded Test Specimens	Estimation of grain size by Comparison method	ASTM E112
179	MECHANICAL-METALLOGRAPHY TEST	Non Ferrous Metals & Welded Test Specimens	Microscopic Examination for Microstructure	ASM Metals Handbook, Volume-09
180	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburized Layer	ASTM E1077
181	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburized Layer	IS 6396
182	MECHANICAL-METALLOGRAPHY TEST	Steel	Effective Case depth by microscopic method	IS 6416 (Clause No.8 & Clause No 5)
183	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Macroetch Testing	IS 13015
184	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of Non-metallic inclusion content - Method A	IS 4163
185	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of Non-metallic inclusion content by Microscopic method	ASTM E45, Method-A
186	MECHANICAL-METALLOGRAPHY TEST	Welds & Welded Test Specimen	Microstructure Analysis	ISO 17639
187	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macro Structure Analysis	ASME Section IX (QW -183,184)
188	MECHANICAL-METALLOGRAPHY TEST	Welds & Welded Test Specimens	Macro Structure Analysis	IS 3600 (Part 9)
189	MECHANICAL-METALLOGRAPHY TEST	Welds & Welded Test Specimens	Macro structure Analysis	ISO 17639
190	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Microstructure Analysis	IS 3600 (Part 9)