National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PARTH METALLURGICAL SERVICES, B-15/16, MIDC, HINGNA ROAD, NAGPUR, 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- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E 1251
2	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E 1251
3	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E 1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminum	IS 15338
13	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
14	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 15338
15	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
16	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338
17	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 15338
18	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999

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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
19	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
20	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS 15338
21	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E1999
22	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 15338
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 15338
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	IS 15338
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E1999
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	IS 15338
29	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BSEN 15079
30	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	BSEN 15079
31	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	BSEN 15079
32	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth	BSEN 15079
33	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BSEN 15079
34	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BSEN 15079
35	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BSEN 15079
36	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BSEN 15079
37	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	BSEN 15079

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38	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BSEN 15079
39	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silver	BSEN 15079
40	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulphur	BSEN 15079
41	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BSEN 15079
42	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BSEN 15079
43	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steel	Aluminium	ASTM E 415
44	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Aluminium	IS 8811
45	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steel	Boron	ASTM E 415
46	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Boron	IS 8811
47	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low alloy steel	Carbon	ASTM E 415
48	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Carbon	IS 8811
49	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steel	Chromium	ASTM E 415
50	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Chromium	IS 8811
51	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steel	Cobalt	ASTM E 415
52	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Cobalt	IS 8811
53	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steel	Copper	ASTM E 415
54	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Copper	IS 8811
55	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low alloy steel	Manganese	ASTM E 415
56	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Manganese	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	Plain carbon & Low Alloy Steel	Molybdenum	ASTM E 415
58	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Molybdenum	IS 8811
59	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steel	Nickel	ASTM E 415
60	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Nickel	IS 8811
61	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steel	Niobium	ASTM E 415
62	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Niobium	IS 8811
63	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steel	Nitrogen	ASTM E 415
64	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Nitrogen	IS 8811
65	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low alloy steel	Phosphorus	ASTM E 415
66	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Phosphorus	IS 8811
67	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steel	Silicon	ASTM E 415
68	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Silicon	IS 8811
69	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low alloy steel	Sulphur	ASTM E 415
70	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Sulphur	IS 8811
71	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steel	Titanium	ASTM E 415
72	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Titanium	IS 8811
73	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Tungsten	IS 8811
74	CHEMICAL- METALS & ALLOYS	Plain carbon & Low Alloy Steel	Vanadium	ASTM E 415
75	CHEMICAL- METALS & ALLOYS	Plain 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
76	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	IS 9879
77	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	IS 9879
78	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1086
79	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 9879
80	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086
81	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
82	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	IS 9879
83	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
84	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
85	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E 1086
86	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
87	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E 1086
88	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
89	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E 1086
90	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
91	CHEMICAL- METALS & ALLOYS	Stainless steel	Niobium	IS 9879
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	IS 9879
93	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086
94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879

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95	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 1068
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
97	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E 1086
98	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 9879
99	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	IS 9879
100	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	IS 9879
101	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	0.2 % Proof Stress	ASTM B557
102	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Elongation %	ASTM B557
103	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Tensile Strength (UTS)	ASTM B557
104	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Yield Strength	ASTM B557
105	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	% Reduction in area	ASTM B557
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	% Reduction in area	ASTM E8/E8M
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	% Reduction in area	ISO 6892 (Part 1)
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	0.2 % Proof Stress	ASTM E8/E8M
109	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	0.2% proof stress	ISO 6892 (Part 1)

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110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Elongation %	ASTM E8/E8M
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Elongation %	ISO 6892 (Part 1)
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Tensile strength (UTS)	ASTM E8/E8M
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Tensile Strength (UTS)	ISO 6892 (Part 1)
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Yield strength	ASTM E8/E8M
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Yield Strength	ISO 6892 (Part 1)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fastener / Bolt	Tensile load for full size bolt	IS 1367 (Part 3) Clause 8.2
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners / Nut	Proof Load Test	IS1367 (Part 6) Clause 8.1
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners / Bolt	Proof load Test	IS 1367 (Part 3) Clause 8.5
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners / Bolt	Shear Strength	IS 12427
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners / Bolts	Tensile load under Wedge loading	IS 1367 (Part 3) Clause 8.6
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Reduction in area	ASTM A370
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Reduction in area	ASTM E8/E8M
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Reduction in area	IS 1608 part1

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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
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Reduction in area	ISO 6892 (Part 1)
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	0.2 % Proof Stress	IS 1608 part1
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	0.2 % Proof Stress	ISO 6892 (Part 1)
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	0.2% proof stress	ASTM E8/E8M
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	ASME BPVC IX
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	ASTM E 290
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	IS 1599
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	ISO 7438
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test & Re- Bend Test for Reinforcement bars	IS 1786
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness 10/3000	IS 1500 (Part 1)
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness 10/3000	ISO 6506 (Part 1)
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness 5/750	Is 1500 (Part 1)
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness 5/750	ISO 6506 (Part 1)
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact test "V" notch (ambient to -60 degree C)	ISO 148

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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
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elongation %	ASTM A370
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elongation %	ASTM E8/E8M
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elongation %	IS 1608 part1
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elongation %	ISO 6892 (Part 1)
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening test (Steel pipes & tubes)	IS 2328
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening test (Steel pipes & tubes)	ISO 8492
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness HRC	IS 1586 (Part 1)
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness HRA	IS 1586 (Part 1)
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness HRA	ISO 6508 (Part 1)
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness HRBW	IS 1586 (Part 1)
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness HRBW	ISO 6508 (Part 1)
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Strength (UTS)	ASTM E 8/E8M
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile strength (UTS)	IS 1608 part1
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile strength (UTS)	ISO 6892 (Part 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
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strength	ASTM A370
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strength	ASTM E 8/E8M
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield strength	IS 1608 part1
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strength	ISO 6892 (Part 1)
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloy & products	0.2% proof stress	ASTM A 370
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Double Shear strength	IS 5242
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Tensile strength (UTS)	ASTM A370
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metal & alloys	Charpy Impact test "V" notch (ambient to -60 degree C)	IS 1757 (Part 1)
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non- Ferrous metals, alloys & products	0.2 % Proof Stress	IS 1608 part1
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Brinell Hardness 10/3000	IS 1500 (Part 1)
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	% Reduction in area	IS 1608 part1
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Brinell Hardness 10/3000	ISO 6506 (Part 1)
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Brinell hardness 5/750	IS 1500 (Part 1)
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Brinell Hardness 5/750	ISO 6506 (Part 1)

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166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Elongation %	IS 1608 part1
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Rockwell Hardness HRBW	IS 1586 (Part 1)
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Rockwell Hardness HRBW	ISO 6508 (Part 1)
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Tensile strength (UTS)	IS 1608 part1
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Yield Strength	IS 1608 part1
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Bars	Mass per meter	IS 1786
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded test specimens	Fracture test	ASME BPVC IX
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Tensile Strength (UTS)	ASME BPVC IX
174	MECHANICAL-METALLOGRAPHY TEST	Aluminium materials, alloys & products	Macro structural analysis	IS 12573
175	MECHANICAL-METALLOGRAPHY TEST	Aluminium materials, alloys & products	Micro structural analysis	ASM metal handbook vol. 9
176	MECHANICAL-METALLOGRAPHY TEST	Cast Iron & Products	Type, size and distribution of graphite flakes & nodules	IS 7754
177	MECHANICAL-METALLOGRAPHY TEST	Copper material, alloys & products	Micro structural analysis	ASM metal handbook vol. 9
178	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Case depth measurement by Macroscopic method	IS 6416
179	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Case Depth measurement by microscopic method	IS 6416
180	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimating depth of Complete Decarburization by microscopic method	ASTM E 1077 (01)

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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
181	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimating depth of Complete Decarburization by microscopic method	IS 6396
182	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimating depth of partial decarburization by microscopic method	IS 6396
183	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimating Partial depth of Decarburization by Microscopic method	ASTM E 1077 (01)
184	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimation of grain size by comparison method	ASTM E 112
185	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimation of grain size by comparison method	IS 4748
186	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimation of Grain size by comparison method	ISO 643
187	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Inclusion rating A to D by microscopic method	ASTM E 45 (Method E)
188	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Inclusion rating A to D by microscopic method	IS 4163
189	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Inclusion rating A to D by microscopic method	ISO 4967
190	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro structural Analysis	ASTM E 340
191	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro structural Analysis	ASTM E 381
192	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro structural analysis	IS 11371
193	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro structural Analysis	IS 13015
194	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Micro structural analysis	ASM Metal handbook Vol. 9