National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : DEEP METALLURGICAL SERVICES, 73, NEW MODELLA INDUSTRIAL ESTATE, PADWAL NAGAR, THANE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 17/08/2021 to 16/08/2023 **Last Amended on** 03/09/2021

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	Anodized Products / Panels / Raw Materials	Salt Spray	ASTM B117
2	CHEMICAL- CORROSION TESTS	Coated Products / Panels / Raw Materials	Salt Spray	ASTM B 117
3	CHEMICAL- CORROSION TESTS	Galvanized Products / Panels / Raw Materials	Salt spary	ASTM B 117
4	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Chromium	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Copper	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Copper	IS 504 (Part 3)
7	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Iron	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminium alloys	iron	IS 504 (Part 2)
9	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Lead	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Magensium,	IS 504 (Part 6)
11	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Magnesium	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Manganese	ASTM E 1251
13	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Manganese	IS 504 (Part 5)
14	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Nickel	ASTM E 1251
15	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Silicon	ASTM E 1251
16	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Silicon	IS 504 (Part 1)
17	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Titanium	ASTM E 1251
18	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Vanadium	ASTM E 1251

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
19	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Zinc	ASTM E 1251
20	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Carbon	ASTM E1086
21	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Chromium	ASTM E1086
22	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Manganese	ASTM E 1086
23	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Molybdenum	ASTM E1086
24	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Nickel	ASTM E1086
25	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Phosphorus	ASTM E1086
26	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Silicon	ASTM E1086
27	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Sulphur	ASTM E1086
28	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun meta. cupro nickel	Aluminum	BS EN 15079
29	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun meta. cupro nickel	Antimony	BS EN 15079
30	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun meta. cupro nickel etc	Arsenic	BS EN 15079
31	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun meta. cupro nickel etc	Bismuth	BS EN 15079
32	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun meta. cupro nickel etc	Cadbium	BS EN 15079
33	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun meta. cupro nickel etc	Cobalt	BS EN 15079
34	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun meta. cupro nickel etc	Copper	IS 4027 (Part1)
35	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun meta. cupro nickel etc	Copper	IS 440
36	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun meta. cupro nickel etc	iron	BS EN 15079
37	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun metal. cupro nickel etc	Iron	IS 4027 (Part 8)

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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	Brasses, bronzes, gun metal. cupro nickel etc	Lead	BS EN 15079
39	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun metal. cupro nickel etc	Lead	IS 4027 (Part 9)
40	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun metal. cupro nickel etc	Lead	IS 440
41	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun metal. cupro nickel etc	Manganese	BS EN 15079
42	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun metal. cupro nickel etc	Nickel	BS EN 15079
43	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun metal. cupro nickel etc	Nickel	IS 4027 (Part 4)
44	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun metal. cupro nickel etc	Phosphorus	BS EN 15079
45	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun metal. cupro nickel etc	Phosphorus	IS 440
46	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun metal. cupro nickel etc	Positive Material Identification	DMS/PMI/1
47	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun metal. cupro nickel etc	Tin	BS EN 15079
48	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun metal. cupro nickel etc	Tin	IS 4027(Part 5)
49	CHEMICAL- METALS & ALLOYS	Brasses, bronzes, gun metal. cupro nickel etc	Zinc	BS EN 15079
50	CHEMICAL- METALS & ALLOYS	Carbon steel and low alloy steel	Aluminum	ASTM E415
51	CHEMICAL- METALS & ALLOYS	Carbon steel and low alloy steel	Carbon	ASTM E415
52	CHEMICAL- METALS & ALLOYS	Carbon steel, low alloy and high alloy steel	Carbon	IS 228 (Par 1)
53	CHEMICAL- METALS & ALLOYS	Carbon steel, low alloy and high alloy steel	Chromium	IS 228 (Part 6)
54	CHEMICAL- METALS & ALLOYS	Carbon steel, low alloy and high alloy steel	Manganese	IS 228 (Part 2)
55	CHEMICAL- METALS & ALLOYS	Carbon steel, low alloy and high alloy steel	Molybdenum	IS 228 (Part 7)
56	CHEMICAL- METALS & ALLOYS	Carbon steel, low alloy and high alloy steel	Nickel	IS 228 (Part 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
57	CHEMICAL- METALS & ALLOYS	Carbon steel, low alloy and high alloy steel	Phosphorus	IS 228 (Part 3)
58	CHEMICAL- METALS & ALLOYS	Carbon steel, low alloy and high alloy steel	Positive Material Indentfication (PMI)	DMS/PMI/1/16
59	CHEMICAL- METALS & ALLOYS	Carbon steel, low alloy and high alloy steel	Silicon	IS 228 (Part 8)
60	CHEMICAL- METALS & ALLOYS	Carbon steel, low alloy and high alloy steel	Sulphur	IS 228 (Part 1)
61	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Aluminum	DMS/Method /OES/3, Issue 03, date 2021, R
62	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Carbon	DMS/Method /OES/3, Issue 03, date 2021, Rev (03)
63	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Chromium	DMS/Method /OES/3, Issue 03, date 2021, R
64	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Cobalt	DMS/Method /OES/3, Issue 03, date 2021, R
65	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Copper	DMS/Method /OES/3, Issue 03, date 2021, R
66	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Manganese	DMS/Method /OES/3, Issue 03, date 2021, R
67	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Molybdenum	DMS/Method /OES/3, Issue 03, date 2021, R
68	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Nickel	DMS/Method /OES/3, Issue 03, date 2021, R
69	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Nitrogen	DMS/Method /OES/3, Issue 03, date 2021, R
70	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Phosphorus	DMS/Method /OES/3, Issue 03, date 2021, R
71	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Silicon	DMS/Method /OES/3, Issue 03, date 2021, R
72	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Sulphur	DMS/Method /OES/3, Issue 03, date 2021, R
73	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Tungsten	DMS/Method /OES/3, Issue 03, date 2021, R
74	CHEMICAL- METALS & ALLOYS	Hot worked, cold worked, high speed, shock resistance, special mold steel	Vanadium	DMS/Method /OES/3, Issue 03, date 2021, R
75	CHEMICAL- METALS & ALLOYS	Inconel, Incoloy, Hastelloy, Monel, Super alloys etc	Aluminum	DMS/Method/OES/2, Issue 04,Rev 04

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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	Inconel, Incoloy, Hastelloy, Monel, Super alloys etc	Boron	DMS/Method/OES/2, Issue 04,Rev 04
77	CHEMICAL- METALS & ALLOYS	Inconel, Incoloy, Hastelloy, Monel, Super alloys etc	Carbon	DMS/Method/OES/2, Issue 04,Rev 04
78	CHEMICAL- METALS & ALLOYS	Inconel, Incoloy, Hastelloy, Monel, Super alloys etc	Chromium	DMS/Method/OES/2, Issue 04,Rev 04
79	CHEMICAL- METALS & ALLOYS	Inconel, Incoloy, Hastelloy, Monel, Super alloys etc	Cobalt	DMS/Method/OES/2, Issue 04,Rev 04
80	CHEMICAL- METALS & ALLOYS	Inconel, Incoloy, Hastelloy, Monel, Super alloys etc	Copper	DMS/Method/OES/2, Issue 04,Rev 04
81	CHEMICAL- METALS & ALLOYS	Inconel, Incoloy, Hastelloy, Monel, Super alloys etc	Iron	DMS/Method/OES/2, Issue 04,Rev 04
82	CHEMICAL- METALS & ALLOYS	Inconel, Incoloy, Hastelloy, Monel, Super alloys etc	Molbdenum	DMS/Method/OES/2, Issue 04,Rev 04
83	CHEMICAL- METALS & ALLOYS	Inconel, Incoloy, Hastelloy, Monel, Super alloys etc	Niobium	DMS/Method/OES/2, Issue 04,Rev 04
84	CHEMICAL- METALS & ALLOYS	Inconel, Incoloy, Hastelloy, Monel, Super alloys etc	Positive Material Indentification	DMS/PMI/1
85	CHEMICAL- METALS & ALLOYS	Inconel, Incoloy, Hastelloy, Monel, Super alloys etc	Silicon	DMS/Method/OES/2, Issue 04,Rev 04
86	CHEMICAL- METALS & ALLOYS	Inconel, Incoloy, Hastelloy, Monel, Super alloys etc	Titanium	DMS/Method/OES/2, Issue 04,Rev 04
87	CHEMICAL- METALS & ALLOYS	Low alloy steel	Chromium	ASTM E415
88	CHEMICAL- METALS & ALLOYS	Low alloy steel	Copper	ASTM E415
89	CHEMICAL- METALS & ALLOYS	Low alloy steel	Manganese	ASTM E415
90	CHEMICAL- METALS & ALLOYS	Low alloy steel	Molybdenum	ASTM E415
91	CHEMICAL- METALS & ALLOYS	Low alloy steel	Nickel	ASTM E415
92	CHEMICAL- METALS & ALLOYS	Low alloy steel	Niobium	ASTM E415
93	CHEMICAL- METALS & ALLOYS	Low alloy steel	Nitrogen	ASTM E415
94	CHEMICAL- METALS & ALLOYS	Low alloy steel	Phosphorus	ASTM E415

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95	CHEMICAL- METALS & ALLOYS	Low alloy steel	Silicon	ASTM E415
96	CHEMICAL- METALS & ALLOYS	Low alloy steel	Sulphur	ASTM E415
97	CHEMICAL- METALS & ALLOYS	Low alloy steel	Vandium	ASTM E415
98	CHEMICAL- METALS & ALLOYS	Plain carbon steel deformed bar	Carbon	ASTM E415
99	CHEMICAL- METALS & ALLOYS	Plain carbon steel deformed bar	Carbon Equivalent	IS 1786
100	CHEMICAL- METALS & ALLOYS	Plain carbon steel deformed bar	Phosphorus	IS 1786
101	CHEMICAL- METALS & ALLOYS	Plain carbon steel deformed bar	Sulphur	IS 1786
102	CHEMICAL- METALS & ALLOYS	Plain carbon steel deformed bar	Sulphur	S 1786
103	CHEMICAL- METALS & ALLOYS	Plain carbon steel deformed bar	Sulphur+Phosphorus	IS 1786
104	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum bronze, copper berilium sheet	Rockwell Hardness C Scale	IS 1586
105	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, pipe, plate, forging, structurals	Charpy Impact V notch Test at minus 46 Degree Celcius	ASTM E23
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, pipe, plate, forging, structurals	Charpy Impact V notch Test at minus 46 Degree Celcius	ISO 148-1
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, pipe, plate, forging, structurals	Charpy Impact V notch Test at Room Temperature	ISO 148-1
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, pipe, plate, forging, structurals	Charpy Impact V notch Test at Room Temperature to minus 46 Degree Celsius	IS 1757
109	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, pipe, plate, forging, structurals	Charpy Impact V notch Test Room Temperature	ASTM E23
110	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, pipe, plate, forging, structurals	IZOD Impact V notch Test at Room Temperature	IS 1598

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111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, pipe, structural, fogring, wire etc	Brinell Hardness Number 2.5/187.5	ASTM E 10
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, pipe, structural, fogring, wire etc	Rockwell Hardness C Scale	ASTM A 370
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, pipe, structural, fogring, wire etc	Rockwell Hardness C Scale	ASTM E18
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, pipe, structural, fogring, wire etc	Rockwell Hardness Scale B	ASTM A370
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, pipe, structural, fogring, wire etc	Rockwell Hardness Scale B	ASTM E18
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, pipe, structural, fogring, wire etc	Rockwell Hardness Scale B	ISO6508-1
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, pipe, structural, fogring, etc	Vickers Hardness Test HV 30	ASTM E92
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Percentage reduction of area	ASTM E8
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	0.2% Offset Yield Stress	ASTM A370
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	0.2% Offset Yield Stress	ASTM E8M
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	0.2% Proof Stress	ISO 6892-1
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Bend Test	ISO 5178
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Bend Test	ISO 7438
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Brinell Hardness Number 2.5/187.5	ISO 6506-1

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125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Micro Vickers Hardness Test HV0.5	IS 1501 (Part 1)
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Micro Vickers Hardness Test HV1	ASTM E384
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Percentage reduction of area	ASTM E8
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Percentage Elongation	ASTM A370
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Percentage Elongation	ASTM E8M
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Percentage Elongation	IS 1608 (Part 1)
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Percentage Elongation	ISO 6892-1
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Percentage of Elongation	ASTM E8
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Percentage reduction of area	ASTM A370
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Percentage reduction of area	ASTME8M
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Percentage reduction of area	IS 1608 (Part 1)
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Percentage reduction of area	ISO 6892-1
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Rockwell Hardness C Scale	IS 1586
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Rockwell Hardness Scale B	IS1586

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139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Ultimate Tensile Properties	IS 1608 (Part 1)
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Ultimate Tensile Strength	ASTM A370
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Ultimate Tensile Strength	ASTM E8
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Ultimate Tensile Strength	ASTM E8
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Ultimate Tensile Strength	ASTM E8M
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Ultimate Tensile Strength	IS 1608 (Part 1)
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Ultimate Tensile Strength	IS 1608 (Part 1)
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Ultimate Tensile Strength	ISO 6892 -1
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Vickers Hardnee Test HV5	IS 1501 (Part1)
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Vickers Hardness Test HV 1	IS 1501 (Part 1)
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Vickers Hardness Test HV 30	ISO 6507-1
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, plate, sheet, tube, pipe, structural, fogring, wire etc	Volume fraction by systematic manula count	ASTM E 561
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, tube, pipe, sheet, plate, structurals etc,	Bend Test	ASTM A370
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, tube, pipe, sheet, plate, structurals etc,	Bend Test	IS 1599

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153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire etc	Upsetting Test	IS 10167
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, pipe, tube, plate	Rockwell Hardness Scale B	IS 1586
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, tube, pipe etc	0.2% 0ffset Yield Stress	ASTM E8M
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, tube, pipe etc	Percentage Elongation	ASTM E8M
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, tube, pipe etc	Percentage Elongation	IS 1608 (Part 1)
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, tube, pipe etc	Percentage reduction of area	IS 1608 (Part 1)
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, tube, pipe etc	Rockwell Hardness Scale B	ASTM E 18
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, tube, pipe etc	Ultimate Tensile Strength	ASTM E8
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, tube, pipe etc	Ultimate Tensile Strength	IS 1608 (Part 1)
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, tube, pipe etc,	0.2% Proof Stress	IS 1608 (Part 1)
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, tube, pipe, sheet etc	Vickers Hardness Test HV5	IS 1501 (Part 1)
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, tube, pipe, sheet, plate, forging, structurals etc,	0.2% Offset Yield Stress	ASTM E 8
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, tube, pipe, sheet, plate, forging, structurals etc,	0.2% Proof Stress	IS 1608 (Part 1)
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, tube, pipe, sheet, plate, forging, structurals etc,	Brinell Hardness Number 2.5/187.5	ASTM E10

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167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bar, wire, tube, pipe, sheet, plate, forging, structurals etc,	Brinell Hardness Number HBW 2.5/187.5	IS 1500
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate -longitudinal	0.2% Proof Stress	IS 1608 (Part 1)
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate longitudinal	Side Bend Test	ASME Section IX
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	0.2% Offset Yield Stress	ASME Section IX
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Brinell Hardness Number 2.5/187.5	ASTM E10
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Brinell Hardness Number 2.5/187.5	IS 1500
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Brinell Hardness Number 2.5/187.5	IS 1586
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Brinell Hardness Number 2.5/187.5	ISO 6506-1
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Face Bend	ASME Section IX
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Micro Vickers Hardness Test HV0.2	ASTM E384
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Micro Vickers Hardness Test HV0.2	IS 1501 (Part 1)
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Micro Vickers Hardness Test HV0.2	ISO 9015
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Micro Vickers Hardness Test HV0.5	ISO 9015-2
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Root Bend	ASME Section IX

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181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Ulitmate Tensile Stregnth	IS 1608 (Part1)
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Ultimate Tensile Strength	ASME Section IX
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Ultimate Tensile Strength	ISO 4136
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Vickers Hardness Test HV 10	ASTM E 92
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Vickers Hardness Test HV 10	IS 1501 (Part 1)
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Vickers Hardness Test HV 10	ISO 6507-1
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Butt weld or groove weld; plate, pipe	Vickers Hardness Test HV0.5	ISO 9015-1
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon steel deformed bar	0.2% Proof stress	IS 1786
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case carburized layer, nitriding layer, induction flame hardened layer	Micro Vickers Hardness Test HV0.5	ISO 6507-1
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case carburized layer, nitriding layer, induction hardened , flame hardened layer	Micro Vickers Hardness Test HV0.2	IS 1501 (Part 1)
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case carburized layer, nitriding layer, induction hardened , flame hardened layer	Micro Vickers Hardness Test HV0.2	ASTM E384
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case carburized layer, nitriding layer, induction hardened , flame hardened layer	Micro Vickers Hardness Test HV0.2	ISO 6507-1
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case carburized layer, nitriding layer, induction hardened , flame hardened layer	Micro Vickers Hardness Test HV0.5	ASTM E384
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case carburized layer, nitriding layer, induction hardened ,flame hardened layer	Micro Vickers Hardness Test HV1	IS 1501 (Part 1)

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195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case carburized layer, nitriding layer,induction hardened , flame hardened layer	Micro Vickers Hardness Test HV1	ISO 6507-1
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Gear, pinion , case carburized layer, nitriding layer, induction hardened ,flame hardened layer	Total Case Depth (By hardness drop method)	IS 6416
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Others	Vickers Hardness Test HV5	IS 1501 (Part1)
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipe	Flattening Test	ASTM A370
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipe	Flattening Test	IS 2328
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipe, plate, wire, bar etc	Vickers Hardness Test HV 5	ASTM E92
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipe, tube, bar, plate etc	Vickers Hardness Test HV5	ISO 6507
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel deformed bar	0.2% Proof stress	IS 1786
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel deformed bar	Bend Test	IS 1786
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel deformed bar	Mass	IS 1786
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel deformed bar	Percentage elongation	IS 1786
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel deformed bar	Ultimate Tensile Strenght	IS 1786
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, bar, pipe etc	Rockwell Hardness C Scale	IS 1586
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, bar, pipe etc	Rockwell Hardness Scale B	IS 1586

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209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, pipe, bar etc	Vickers Hardness Test HV 30	ISO 6507-1
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, tube, pipe etc	Vickers Hardness Test HV 30	IS 1501 (Part 1)
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheet tube, case layer, coating layer etc	Vickers Hardness Test HV 1	ISO 6507-1
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheet, case layer, tube, wire etc	Vickers Hardness Test HV 1	ASTM E 92
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Thin sheet, tube etc	Micro Vickers Hardness Test HV0.2	IS 1501 (Part 1)
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Thin sheet, wire, tube etc	Micro Vickers Hardness Test HV0.2	ASTM E384
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Thin wire, sheet tube etc	Micro Vickers Hardness Test HV0.2	ISO 6507-1
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube	Flaring Test	ASTM A370
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube	Flaring Test	IS2330
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube, pipe	Flattening Test	IS 2328
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube, pipe etc	Flaring test	IS 2330
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, Bar etc	Upsetting Test	ASTM A370
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	0.2% Offset Yield Stress	ASTM E8
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	0.2% Proof Stress	IS 1608 (Part 1)

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223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Percentage Elongation	IS 1608 (Part 1)
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Percentage of Elongation	ASTM E8
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Percentage redcution of area	IS 1608 (Part 1)
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Percentage reduction of area	ASTM E8
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Rockwell Hardness C Scale	ISO 6508 - 1
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Rockwell Hardness Scale B	ASTM E 18
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Ultimate Tensile Strength	ASTM E8
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Ultimate Tensile Strength	IS 1608 (Part 1)
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Vickers Hardness Test HV 10	ASTM E 92
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Vickers Hardness Test HV 10	ASTM E92
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Vickers Hardness Test HV 10	IS 1501 (Part 1)
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Vickers Hardness Test HV 10	ISO 6507-1
235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Vickers Hardness Test HV 30	ASTM E92
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Vickers Hardness Test HV 30	IS 1501 (Part 1)

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237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Vickers Hardness Test HV5	ASTM E 92
238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, plate, tube, pipe etc	Vickers Hardness Test HV5	ISO 6507-1
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, tube etc	Micro Vickers Hardness Test HV0.5	IS 1501 (Part 1)
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, tube, pipe etc	Micro Vickers Hardness Test HV1	ASTM E384
241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, tube, pipe etc	Micro Vickers Hardness Test HV1	IS 1501 (Part 1)
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet, tube, pipe etc	Micro Vickers Hardness Test HV1	ISO 6507-1
243	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire, sheet,tube, pipe etc	Micro Vickers Hardness Test HV0.5	ASTM E384
244	MECHANICAL-METALLOGRAPHY TEST	Aluminum alloy cylinder	Susceptibility to inter crystalline corrosion	IS 15660
245	MECHANICAL-METALLOGRAPHY TEST	Asutenitic stainless steel, IGC practice	Money Strauss Test , Method A	ISO 3651
246	MECHANICAL-METALLOGRAPHY TEST	Austenitic stainless steel	Huey Test	ISO 3651-1
247	MECHANICAL-METALLOGRAPHY TEST	Austenitic stainless steel	IGC Practice A	ASTM A262
248	MECHANICAL-METALLOGRAPHY TEST	Austenitic stainless steel, IGC	IGC Practice A & B	ISO 3651-2
249	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless steel, IGC confirmation by microstructure	IGC Practice A	ASTMA262
250	MECHANICAL-METALLOGRAPHY TEST	Austenitic stainless steel; bar, pipe, plate etc	IGC Practice C	ASTM A 262
251	MECHANICAL-METALLOGRAPHY TEST	Bar, pipe, sheet, plate etc,	Metallographic micro etching	ASTM E407
252	MECHANICAL-METALLOGRAPHY TEST	Bar, pipe, tube etc	Susceptibility to inytergranular corrosion in nickel alloys, Method A , 24hrs	ASTM G 28

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253	MECHANICAL-METALLOGRAPHY TEST	Bar, pipe, tube, sheet, plate etc	Metallographic micro etching	ASTM E407
254	MECHANICAL-METALLOGRAPHY TEST	Bar, pipe, tube, sheet, plate etc	Microstructure examination	ASM Vol. 9
255	MECHANICAL-METALLOGRAPHY TEST	Bar, pipe, tube, sheet, plate etc	Microstructure examination	ASM Vol. 9
256	MECHANICAL-METALLOGRAPHY TEST	bearing steel	Micro structure carbide rating	SEP 1520
257	MECHANICAL-METALLOGRAPHY TEST	Butt weld, fillet weld,	Macrostructure	ASME Section IX
258	MECHANICAL-METALLOGRAPHY TEST	Butt weld, fillet weld, carbon, alloy steel & stainless steel	Metallographic micro etching	ASTM E407
259	MECHANICAL-METALLOGRAPHY TEST	Carbon & alloy steel, bar, plate, pipe	Depth of Decarburization by hardness & microstructure	IS 6396
260	MECHANICAL-METALLOGRAPHY TEST	Carbon & alloy steel, bar, plate, pipe	Depth of decarburization By microstructure	ASTM E1077
261	MECHANICAL-METALLOGRAPHY TEST	Classificationof grade and graphite in cast iron and SG iron	Microstructure of Graphite in cast iron	IS 7754
262	MECHANICAL-METALLOGRAPHY TEST	Cleanliness in carbon steel, low & high alloy steel	Non metallic inclusion	IS 4163
263	MECHANICAL-METALLOGRAPHY TEST	Cleanliness in carbon, low and high alloy steel	Non metallic inclusion	ASTM E45
264	MECHANICAL-METALLOGRAPHY TEST	Cleanliness in carbon, low and high alloy steel	Non metallic inclusion	ASTM E45
265	MECHANICAL-METALLOGRAPHY TEST	Duplex stainless steel ; bar, pipe, plate etc	Classification of etch structure of duplex stainless steel	ASTM A 923
266	MECHANICAL-METALLOGRAPHY TEST	Duplex stainless steel, cast and weld	Volume fraction of delta ferrite,by microscopic method	ASTM A800
267	MECHANICAL-METALLOGRAPHY TEST	Duplex stainless steel, plate, bar, pipe etc	Volume fraction of delta ferrite by ferritoscope	ASTM A800
268	MECHANICAL-METALLOGRAPHY TEST	Fillet weld,butt weld of plate and pipe	Microstructure examination	ASM Vol. 9
269	MECHANICAL-METALLOGRAPHY TEST	Gear, roller, pin etc	Nitrided case depth by microscopic method	IS 6416
270	MECHANICAL-METALLOGRAPHY TEST	Grain size by quantitative measurement	Grain size, intercept method	ASTM E 112
271	MECHANICAL-METALLOGRAPHY TEST	Grain size measurement in steel	Grain size measurement	IS 4748

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272	MECHANICAL-METALLOGRAPHY TEST	Grain size quantitative in steel	Grain size , Planimetric Procedure	ASTM E112
273	MECHANICAL-METALLOGRAPHY TEST	high carbon roller bearing	microstructure evaluation	IS 4398
274	MECHANICAL-METALLOGRAPHY TEST	Intermetallic compound in duplex stainless steel	Detecting detrimental intermetallic phase , Method C	ASTM A923
275	MECHANICAL-METALLOGRAPHY TEST	Microstructure; carbon steel, alloy steel, , stainless steel and tool steel	Microstructure	ASM Vol. 9, ASTM E3
276	MECHANICAL-METALLOGRAPHY TEST	Nodule and nodularity in Spheroidal Graphite nodule	Nodularity and nodule count in Ductile Iron	IS 7754
277	MECHANICAL-METALLOGRAPHY TEST	Pipe, bar, tube of copper, nickel, titanium alloys etc	Microstructure examination	ASM Vol.9
278	MECHANICAL-METALLOGRAPHY TEST	Pipe, wire, bar tube etc	Susceptibility to inytergranular corrosion in nickel alloys, Method B , 24hrs	ASTM G28
279	MECHANICAL-METALLOGRAPHY TEST	Pipe, wire, bar, tube etc	Susceptibility to inytergranular corrosion in nickel alloys, Method A , 72hrs	ASTM G 28
280	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel deformed bar	Field test on controlled cooling process	IS 1786
281	MECHANICAL-METALLOGRAPHY TEST	Stainless steel, alloy steel and carbon steel ; bar, pipe, plate etc	Grain size	ASTM E112
282	MECHANICAL-METALLOGRAPHY TEST	Stainless steel, alloy steel and carbon steel component	Metallographic micro etching	ASTM E407, ASTM E3
283	MECHANICAL-METALLOGRAPHY TEST	Stainless steel, alloy steel and carbon steel component	Preparation of metallographic sample	ASTM E 3
284	MECHANICAL-METALLOGRAPHY TEST	Stainless steel, alloy steel and carbon steel; weld and forged component	Macro structure examination	ASTM E381
285	MECHANICAL-METALLOGRAPHY TEST	Stainless steel, alloy steel and carbon steel; welded & forged component	Macro structure examination	IS 13015
286	MECHANICAL-METALLOGRAPHY TEST	Susceptibility to pitting in duplex stainless steel	Pitting Corrosion Test , 24hrs,	ISO 17781
287	MECHANICAL-METALLOGRAPHY TEST	Susceptibility to pitting in duplex stainless steel	Pitting Corrosion test in duplelx stainless steel	ASTM G48
288	MECHANICAL-METALLOGRAPHY TEST	Susceptibilty to pitting in duplex stainless steel	Pitting corrosion test, 72hrs	IS0 17781
289	MECHANICAL-METALLOGRAPHY TEST	Thickness and mass of zinc coating	Glavanized Coating	IS 4826

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290	MECHANICAL-METALLOGRAPHY TEST	Total Case depth, Effective case depth, coating thickness etc,	Case Depth by microscopic method	IS 6416
291	MECHANICAL-METALLOGRAPHY TEST	Welded structure	Macrostructure examination of welds	ISO 17639

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Site Facility				
1	CHEMICAL- METALS & ALLOYS	Inconel, Incoloy, Hastelloy, Monel, Super alloys etc	Positive Material Identification	DMS/PMI/1
2	MECHANICAL-METALLOGRAPHY TEST	Duplex Austentic steel, austenitic stainless steel, etc	Delta Ferrite content, ferritiscope	ASTM A800
3	MECHANICAL-METALLOGRAPHY TEST	Engineering component and structure ,	Field Metallography - Microstructre	ASTM E1351
4	MECHANICAL-METALLOGRAPHY TEST	Microstructure determination	Field Metallography - microstructure	ASTM E 1351
5	MECHANICAL-METALLOGRAPHY TEST	Pipe, palte, bar etc of titanium and aluminum	Positive Material Idnetification	DMS/PMI/1
6	MECHANICAL-METALLOGRAPHY TEST	Pipe, plate, bar, etc	Positive Material Indentification	DMS/PMI/1
7	MECHANICAL-METALLOGRAPHY TEST	Pipe,roller, shaft, plate etc	Portable on site hardnes,	ASTM A956