National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : WI MET LAB SERVICES, PLOT NO. 2213, PHASE IV, GIDC, VITTHAL UDYOG NAGAR, ANAND, GUJARAT, 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	Tin	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E 1999
13	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E 1999
14	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 15338
15	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E 1999
16	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 15338
17	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E 1999
18	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338

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19	CHEMICAL- METALS & ALLOYS	Cast iron	Manganese	ASTM E 1999
20	CHEMICAL- METALS & ALLOYS	Cast iron	Manganese	IS 15338
21	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS 15338
22	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASIM E 1999
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 15338
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 1999
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 15338
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E 1999
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 15338
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulfur	ASTM E 1999
29	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulfur	IS 15338
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E 1999
31	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	IS 15338
32	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E 1999
33	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	IS 15338
34	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminum	BS EN 15079
35	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	BS EN 15079
36	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079
37	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BS EN 15079

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38	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079
39	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079
40	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	BS EN 15079
41	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN 15079
42	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulfur	BS EN 15079
43	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN 15079
44	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BS EN 15079
45	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Aluminium	ASTM E 415
46	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Aluminum	IS 8811
47	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Boron	ASTM E 415
48	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Boron	IS 8811
49	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Carbon	ASTM E 415
50	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Carbon	IS 8811
51	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Chromium	ASTM E 415
52	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Chromium	IS 8811
53	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Cobalt	ASTM E 415
54	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Cobalt	IS 8811
55	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Copper	ASTM E 415
56	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Copper	IS 8811

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57	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Manganese	ASTM E 415
58	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Manganese	IS 8811
59	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Molybdenum	ASTM E 415
60	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Molybdenum	IS 8811
61	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Nickel	ASTM E 415
62	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Nickel	IS 8811
63	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Niobium	ASTM E 415
64	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Niobium	IS 8811
65	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Nitrogen	ASTM E 415
66	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Nitrogen	IS 228 Part 23
67	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Phosphorus	ASTM E 415
68	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Phosphorus	IS 8811
69	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Silicon	ASTM E 415
70	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Silicon	IS 8811
71	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Sulfur	ASTM E 415
72	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Sulfur	IS 8811
73	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Titanium	ASTM E 415
74	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Titanium	IS 8811
75	CHEMICAL- METALS & ALLOYS	Low, medium and high carbon alloy steel	Vanadium	ASTM E 415

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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	Low, medium and high carbon alloy steel	Vanadium	IS 8811
77	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Aluminum	ASTM E 3047
78	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Carbon	ASTM E 3047
79	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Chromium	ASTM E 3047
80	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Cobalt	ASTM E 3047
81	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Copper	ASTM E 3047
82	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Iron	ASTM E 3047
83	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Manganese	ASTM E 3047
84	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Molybdenum	ASTM E 3047
85	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Nickel	ASTM E 3047
86	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Niobium	ASTM E 3047
87	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Phosphorus	ASTM E 3047
88	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Silicon	ASTM E 3047
89	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Sulfur	ASTM E 3047
90	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Titanium	ASTM E 3047
91	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Tungsten	ASTM E 3047
92	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Vanadium	ASTM E 3047
93	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminum	IS 9879
94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	JIS G 1253

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95	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1086
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
97	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086
98	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
99	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	IS 9879
100	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
101	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
102	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E 1086
103	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
104	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E 1086
105	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
106	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E 1086
107	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
108	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086
109	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
110	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 1086
111	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
112	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	ASTM E 1086
113	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	IS 9879

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114	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	IS 9879
115	CHEMICAL- METALS & ALLOYS	Stainless Steel and Tool Steel	Cobalt	JIS G 1253
116	CHEMICAL- METALS & ALLOYS	Stainless Steel and Tool Steel	Niobium	JIS G 1253
117	CHEMICAL- METALS & ALLOYS	Stainless Steel and Tool Steel	Nitrogen	JIS G 1253
118	CHEMICAL- METALS & ALLOYS	Stainless Steel and Tool Steel	Tungsten	JIS G 1253
119	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Brinell Hardness	ASTM E 10
120	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Micro Vickers Hardness Test	IS 1501 Part 1
121	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Rockwell Hardness Test	IS 1586 Part 1
122	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Vickers Hardness Test	IS 1501 Part 1
123	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Bend Test	IS 1599
124	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Brinell Hardness	IS 1500 (Part-1)
125	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Brinell Hardness Test	ASTM E 10
126	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Brinell Hardness Test	IS 1500(Part 1)
127	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Micro Vickers Hardness	ASTM E 384
128	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Micro Vickers Hardness	IS 1501 (PART 1)

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129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, Alloys & Product	Micro Vickers Hardness Test	ASTM E384
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, Alloys & Product	Micro Vickers Hardness Test	ASTM E384
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Micro Vickers Hardness Test	IS 1501 PART 1
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Rockwell Hardness Test (HRBW)	ASTM E 18
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Vickers Hardness Test	ASTM E 92
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys, other Non-Ferrous materials, alloys & product	Vickers Hardness Test	IS 1501 PART 1
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials & products	Bend Test	ASTM E 290
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials & products	Bend Test, Face Test, Root Test, Side Bend	ASME SEC IX
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials & products	Bend Test, Face Test, Root Test, Side Bend	BS EN ISO 5173
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials & products	Transverse Tensile Strength	ASME SEC IX
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials & products	Transverse Tensile Strength	BS EN ISO 15614
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials & products	Transverse Tensile Strength	BS EN ISO 4136
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous products	Bend Test	ASTM A 370
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell Hardness Test	ASTM A370

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143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel & other Ferrous Materials, Alloys & Product	Micro Vickers Hardness Test	ASTM E92
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel & other Ferrous Materials, Alloys & Product	Micro Vickers Hardness Test	IS 1501 Part 1
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel & other Ferrous Materials, Alloys & Product	Micro Vickers Hardness Test	IS 1501 PART 1
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel & other Ferrous Materials, Alloys & Product	Vickers Hardness Test	ASTM E384
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel & other Ferrous Materials, Alloys & Product	Vickers Hardness Test	ASTM E92
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel & other Ferrous Materials, Alloys & Product	Vickers Hardness Test	ASTM E92
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel & other Ferrous Materials, Alloys & Product	Vickers Hardness Test	IS 1501 Part 1
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel & other Ferrous Materials, Alloys & Product	Vickers Hardness Test	IS 1501 Part 1
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel & other Ferrous Materials, Alloys & Product	Vickers Hardness Test	IS 1501 Part 1
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel & other Ferrous materials, Alloys & Products	Charpy Impact Test - 'V' Notch (-196°C to ambient temperature)	ASTM A370
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel other Ferrous Materials, Alloys & Product	Micro Vickers Hardness	IS 1501 PART1
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel other Ferrous Materials, Alloys & Product	Micro Vickers Hardness Test	ASTM E384
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel other Ferrous materials, Alloys & Products	Micro Vickers Hardness	ASTM E384
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, Alloys & Product	Brinell Hardness	ASTM E10

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157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, Alloys & Product	Brinell Hardness	IS 1500 Part 1
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, Alloys & Product	Rockwell Hardness Test	ASTM A370
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, Alloys & Product	Rockwell Hardness Test	ASTM A370
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, Alloys & Product	Rockwell Hardness Test	ASTM E18
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, Alloys & Product	Rockwell Hardness Test	IS 1586 Part 1
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, Alloys & Product	Rockwell Hardness Test	IS 1586 PART1
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Rockwell Hardness Test (HRBW)	ASTM E 18
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test : % Elongation	IS 1608 (P1)
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test : % Reduction in Area	ASTM A 370
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test : % Reduction in Area	ASTM E8 / E8M
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test : % Reduction in Area	IS 1608 (P1)
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test : %0.2 Proof Stress	IS 1608 (P1)
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test : %0.2 Proof Stress	ASTM A 370
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test : %0.2 Proof Test	ASTM E8 / E8M

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171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, Alloys & Product	Tensile Test : %0.2 Proof Test	ISO 6892-1
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test : %Elongation	ASTM A 370
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test : %Elongation	ASTM E8 / E8M
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, Alloys & Product	Tensile Test : %Elongation	ISO 6892-1
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, Alloys & Product	Tensile Test : %Reduction in Area	ISO 6892-1
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test : Ultimate Tensile Strength	ASTM A 370
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test : Ultimate Tensile Strength	ASTM E8 / E8M
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, Alloys & Product	Tensile Test : Ultimate Tensile strength	ISO 6892-1
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test : Yield Strength	ASTM A370
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, Alloys & Product	Tensile Test : Yield Strength	ASTM E8 / E8M
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test : Yield Strength	IS 1608 (P1)
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, Alloys & Product	Tensile Test : Yield Strength	ISO 6892-1
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & product	Tensile Test ; Ultimate Tensile Strength	IS 1608 (P1)
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Vickers Hardness Test	BS EN ISO 6507 PART 1

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185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Brinell Hardness Test	BS EN ISO 6506 -1
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous Materials, alloys & products	Brinell Hardness Test	BS EN ISO 6506 -1
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Elevated Temperature (50 to 700 Deg. Cen.) ; % Elongation	ASTM E 21
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Elevated Temperature (50 to 700 Deg. Cen.) ; % Elongation	ISO 6892 Part 2
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Elevated Temperature (50 to 700 Deg. Cen.) ; % Reduction in Area	ASTM E21
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Elevated Temperature (50 to 700 Deg. Cen.) ; % Reduction in Area	ISO 6892 Part 2
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Elevated Temperature (50 to 700 Deg. Cen.) ; Tensile strength	ASTM E21
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Elevated Temperature (50 to 700 Deg. Cen.) ; Tensile strength	ISO 6892 Part 2
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Rockwell Hardness Test	BS EN ISO 6508 Part 1
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Rockwell Hardness Test	BS EN ISO 6508 Part 1
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Temperature (50 to 700 Deg. Cen.) ; Yield Strength	ISO 6892 Part 2
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Tensile Test : % Elongation	BS EN ISO 6892 Part 1
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Tensile Test : 0.2% Proof stress & 1 % proof stress	BS EN ISO 6892 PART 1
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Tensile Test :Tensile Strength	BS EN ISO 6892 Part 1

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199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Tensile Test: % Reduction in Area	BS EN ISO 6892 Part 1
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Vickers Hardness Test	BS EN ISO 6507 PART 1
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless Steel, Ferrous materials, Alloys & Products	Bend Test	ASTM A370
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Ferrous materials, Alloys & Products	Bend Test	IS 1599
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Ferrous materials, Alloys & Products	Brinell Hardness Test	ASTM E10
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Ferrous materials, Alloys & Products	Brinell Hardness Test	IS 1500 Part 1
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low alloy steel, Stainless steel, Ferrous materials, Alloys & Products	Charpy Impact Test - 'V' Notch (-196°C to ambient temperature)	ASTM E23
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel,low alloy steel , stainless steel,cast iron & other ferrous materials,alloys&products	Brinell Hardness Test	BS EN ISO 6506-1
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Cast and Welded Specimen	Charpy Impact Test V-Notch	ISO 148-1
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Cast and Welded Specimen	Charpy Impact Test V-Notch	ISO 9016
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	All Weld Impact Test	ASME BPVC-IIC
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	All Weld Tensile Test : %0.2 Proof Stress	ASME BPVC-IIC
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	All Weld Tensile Test : %0.2 Proof Stress	ISO 5178
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	All Weld Tensile Test : %Elongation	ASME BPVC-IIC

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213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	All Weld Tensile Test : %Elongation	ISO 5178
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	All Weld Tensile Test : %Reduction in Area	ASME BPVC-IIC
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	All Weld Tensile Test : %Reduction in Area	ISO 5178
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	All Weld Tensile Test :Tensile Strength	ASME BPVC-IIC
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	All Weld Tensile Test :Tensile Strength	ISO 5178
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	Bend Test	ASTM E190
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	Bend Test	AWS D1.1
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	Bend Test	ISO 7438
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	Transverse Face and Root Bend Test	IS 3600 Part-5
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	Transverse Side Bend Test	IS 3600 Part-6
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	Transverse Tensile Strength	IS 3600 Part-3
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	Ultimate Tensile Strength	API 1104
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	Ultimate Tensile Strength	AWS D1.1
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	Vickers Hardness Test	AWS D1.1

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227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	Vickers Hardness Test	BS EN ISO 9015-1
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fasteners	Tensile Test Under Wedge Loading	ASTM A193/193M
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fasteners	Tensile Test Under Wedge Loading	ASTM A370
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fasteners	Tensile Test Under Wedge Loading	IS 1367(P3)
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fasteners	Tensile Test Under Wedge Loading	ISO 3506-1
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fasteners	Tensile Test Under Wedge Loading	ISO 898(P1)
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fasteners - Bolt	Proof Load - Bolt	IS 1367 (P-3) & ASTM A370
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fasteners - Nut	Proof Load -Nut	IS 1367 (P-6) & ASTM A370
235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Effective Case Depth by Vickers Hardness Method	IS 6416
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube/Pipe	Flaring Test/ Drift Expansion Test	IS 2335
237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube/Pipe	Flattening Test	ASTM A 370
238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube/Pipe	Flattening Test	BS EN ISO 8492
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube/Pipe	Flattening Test	IS 2328
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube/Pipes	Flaring Test/ Drift Expansion Test	ASTM A 370

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241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube/Pipes	Flaring Test/ Drift Expansion Test	ISO 8493
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube/Pipes	Flattening Test	API-5L
243	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless steel	Corrosion test IGC Practice " A"	ASTM A262-15
244	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless steel	Corrosion test IGC Practice "B"	ASTM A262-15
245	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless steel	Corrosion test IGC Practice "C"	ASTM A262-15
246	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless steel	Corrosion test IGC Practice "E"	ASTM A262-15
247	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless steel	Corrosion test IGC Practice "F"	ASTM A262-15
248	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Micro Structure of Cast Iron	IS 7754
249	MECHANICAL-METALLOGRAPHY TEST	Coated Materials	Coating Thickness by Microscopic Method	ASTM B487
250	MECHANICAL-METALLOGRAPHY TEST	Coated Materials	Coating Thickness by Microscopic Method	IS 3203
251	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Crevice Corrosion Test Method-B	ASTM G48-11
252	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Detection of Inter metallic Phases Method-A	ASTM A923
253	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Detection of Inter metallic Phases Method-B	ASTM A923
254	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Detection of Inter metallic Phases Method-C	ASTM A923
255	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Pitting Corrosion Test Method-A	ASTM G48-11
256	MECHANICAL-METALLOGRAPHY TEST	Ferritic, Austenitic and Austenitic (Duplex) Stainless Steels	Corrosion Test (IGC Method "C")	ISO 3651 Part 2
257	MECHANICAL-METALLOGRAPHY TEST	Ferritic, Austenitic and Austenitic (Duplex) Stainless Steels	Corrosion Test (IGC Method ''A'')	ISO 3651-2
258	MECHANICAL-METALLOGRAPHY TEST	Ferritic, Austenitic and Austenitic (Duplex) Stainless Steels	Corrosion Test (IGC Method ''B'')	ISO 3651 Part 2

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259	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous metals, Alloys & Product	Micro Structural Analysis	ASM METALS HANDBOOK VOLUME - 9
260	MECHANICAL-METALLOGRAPHY TEST	Nickel Base and Chromium Bearing Alloys	Corrosion Test Method-A	ASTM G28-02
261	MECHANICAL-METALLOGRAPHY TEST	Nickel Base and Chromium Bearing Alloys	Corrosion Test Method-B	ASTM G28-02
262	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous materials, alloys & product	Volume Fraction	ASTM E 1245 - 03
263	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel, Low alloy steel, Stainless steel, Cast iron & other Ferrous materials, alloys & products	Macro Structural Analysis	ASTM E 381
264	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Macro Structural Analysis	IS 11371
265	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Macro Structural Analysis	IS 13015
266	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel, Low alloy steel, Stainless Steel, Cast iron & other Ferrous materials, alloys & products	Macro Structural Analysis	ISO 17639
267	MECHANICAL-METALLOGRAPHY TEST	Plate, Bar, Pipe, Tube, Wire, Cast and Welded Specimen	Macro Test	AWS D1.1
268	MECHANICAL-METALLOGRAPHY TEST	Stainless steel and duplex stainless steel	Volume Fraction	ASTM E 562
269	MECHANICAL-METALLOGRAPHY TEST	Steels	Average Grain Size Measurement by Comparison Method	ASTM E112-13
270	MECHANICAL-METALLOGRAPHY TEST	Steels	Average Grain Size Measurement by Comparison Method	IS4748
271	MECHANICAL-METALLOGRAPHY TEST	Steels	Case Depth by Microscopic Method	IS 6416
272	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of Depth of Decarburized Layer	ASTM B934
273	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of Depth of Decarburized Layer	IS 6396
274	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of Inclusion Rating by Method "A"	ASTM E 45
275	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of Inclusion Rating by Method "A"	IS 4163
276	MECHANICAL-METALLOGRAPHY TEST	Steels	Effective case depth by Stereo Zoom Microscope Method	IS 6416

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277	MECHANICAL-METALLOGRAPHY TEST	Steels	Effective Case Depth by Vickers Hardness Method	IS 6416
278	MECHANICAL-METALLOGRAPHY TEST	Weld & Weld Metal	Macro Structural Analysis	ASME SEC IX