National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : 24 K MECH LABORATORIES, PLOT NO 165/1/14 , T BLOCK , MIDC BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- CORROSION TESTS	Plated, Painted, Coated, Hard Plated, Galvanized and Anodized Parts	Salt Spray Testing	ASTM B117
2	CHEMICAL- METALS & ALLOYS	Al & its Alloys	Chromium	ASTM E-1251
3	CHEMICAL- METALS & ALLOYS	Al & its Alloys	Lead	ASTM E-1251
4	CHEMICAL- METALS & ALLOYS	Al & its Alloys	Magnesium	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Al & its Alloys	Manganese	ASTM E-1251
6	CHEMICAL- METALS & ALLOYS	Al & its Alloys	Tin	ASTM E-1251
7	CHEMICAL- METALS & ALLOYS	Al & its Alloys	Zinc	ASTM E-1251
8	CHEMICAL- METALS & ALLOYS	Aluminum Alloys	Chromium	IS 11035
9	CHEMICAL- METALS & ALLOYS	Aluminum Alloys	Copper	ASTM E 1251:
10	CHEMICAL- METALS & ALLOYS	Aluminum Alloys	Copper	IS 11035
11	CHEMICAL- METALS & ALLOYS	Aluminum Alloys	Iron	ASTM E 1251:
12	CHEMICAL- METALS & ALLOYS	Aluminum Alloys	Iron	IS 11035
13	CHEMICAL- METALS & ALLOYS	Aluminum Alloys	Magnesium	IS 11035
14	CHEMICAL- METALS & ALLOYS	Aluminum Alloys	Manganese	IS 11035
15	CHEMICAL- METALS & ALLOYS	Aluminum Alloys	Nickel	ASTM E 1251:
16	CHEMICAL- METALS & ALLOYS	Aluminum Alloys	Silicon	ASTM E 1251:
17	CHEMICAL- METALS & ALLOYS	Aluminum Alloys	Silicon	IS 11035
18	CHEMICAL- METALS & ALLOYS	Aluminum Alloys	Titanium	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	Aluminum Alloys	Titanium	IS 11035
20	CHEMICAL- METALS & ALLOYS	Aluminum Alloys	Zinc	IS 11035
21	CHEMICAL- METALS & ALLOYS	Bar: Round/ Hexagonal/ square plates , sheets, foils, castings, welding, forged , rolled ,machined components and assemblies	Sorting of Ferrous and Non Ferrous Alloys by element analysis with the help of XRF machine.(PMI)- "Chromium, Nickel, Molybednum, Aluminum, Silicon, Titanium, Manganese, Magnesium, Vanadium, Lead, Zinc, Ferrous"	ASTM E 1476
22	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminum	IS 15338
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E 1999
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS15338
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E 1999
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 15338
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E-1999
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338
29	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	IS 15338
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E 1999
31	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 15338
32	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E-1999
33	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS 15338
34	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E 1999
35	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 15338

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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
36	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 1999
37	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 15338
38	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
39	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 15338
40	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulfur	ASTM E 1999
41	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulfur	IS 15338
42	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E 1999
43	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	IS 15338
44	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E 1999
45	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	IS 15338
46	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E 1999
47	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	IS 15338
48	CHEMICAL- METALS & ALLOYS	Copper Alloys	Arsenic	BS EN 15079
49	CHEMICAL- METALS & ALLOYS	Copper Alloys	Bismuth	BS EN 15079
50	CHEMICAL- METALS & ALLOYS	Copper Alloys	Silver	BS EN 15079
51	CHEMICAL- METALS & ALLOYS	Cu & its Alloys	Aluminum	BS EN 15079
52	CHEMICAL- METALS & ALLOYS	Cu & its Alloys	Ferrous	BS EN 15079
53	CHEMICAL- METALS & ALLOYS	Cu & its Alloys	Lead	BS EN 15079
54	CHEMICAL- METALS & ALLOYS	Cu & its Alloys	Manganese	BS EN 15079

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55	CHEMICAL- METALS & ALLOYS	Cu & its Alloys	Nickel	BS EN 15079
56	CHEMICAL- METALS & ALLOYS	Cu & its Alloys	Phosphorus	BS EN 15079
57	CHEMICAL- METALS & ALLOYS	Cu & its Alloys	Silicon	BS EN 15079
58	CHEMICAL- METALS & ALLOYS	Cu & its Alloys	Tin	BS EN -15079
59	CHEMICAL- METALS & ALLOYS	Cu & its Alloys	Zinc	BS EN 15079
60	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium	IS 8811
61	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminum	ASTM E- 415
62	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron	ASTM E 415
63	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron	IS 8811
64	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	ASTM E-415
65	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 8811
66	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	ASTM E-415
67	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 8811
68	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	ASTM E 415
69	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	IS 8811
70	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	ASTM E-415
71	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	IS 8811
72	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	ASTM E-415
73	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 8811

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74	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	ASTM E-415
75	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	IS 8811
76	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	ASTM E-415
77	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	IS 8811
78	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nitrogen	ASTM E-415
79	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	ASTM E-415
80	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	IS 8811
81	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E-415
82	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 8811
83	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	ASTM E-415
84	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	IS 8811
85	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	ASTM E-415
86	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	IS 8811
87	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E-1086
88	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
89	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E-1086
90	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E-1086
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879

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93	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E-1086
94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
95	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E-1086
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
97	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E-1086
98	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
99	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086
100	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
101	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E-1086
102	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
103	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E-1086
104	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
105	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	ASTM E 1086
106	CHEMICAL- METALS & ALLOYS	Tool Steel	Aluminum	JIS G-1253:
107	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS G-1253
108	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS G-1253
109	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS G-1253
110	CHEMICAL- METALS & ALLOYS	Tool Steel	Copper	JIS G-1253
111	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS G-1253

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112	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS G-1253
113	CHEMICAL- METALS & ALLOYS	Tool Steel	Nickel	JIS G-1253
114	CHEMICAL- METALS & ALLOYS	Tool steel	Phosphorus	JIS G-1253:
115	CHEMICAL- METALS & ALLOYS	Tool steel	Silicon	JIS G-1253
116	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	JIS G-1253
117	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS G-1253
118	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS G-1253
119	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheet and plates in ferrous and non-ferrous materials	Bend Test	ASTM E-190
120	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets	Bend Test	IS 3600-5
121	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and plates in ferrous and non-ferrous materials	Bend Test	ASME SECTION IX
122	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils.	Bend Test	ISO 5173
123	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar (hexagonal/square/round) , plates,pipes, tubes.	Izod Impact	IS 1598
124	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar (Round/Hexagonal/Square) ,plates.	Jominy end quench hardenability (Distance 1.5mm to 60mm)	ASTM A-255
125	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar(Round,Hexagonal,Square),Plates	Jominy End Quench Hardenability (Distance 1.5mm to 60mm)	IS 3848
126	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bars and Rods	Re-bend test	IS 1786

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127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments	Fracture Test	AWS D1.1
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments	Fracture Test	ASME Section-IX
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments	Fracture Test	BS EN 1320
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments	Fracture Test	ISO 9017
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Tensile test (0.2 % Proof Stress)	ASTM E -8 / E -8M
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Tensile test (0.2 % Proof Stress)	IS 1608-1
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Tensile Test (%Elongation)	ASTM E -8 / E -8M
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Tensile Test (%Elongation)	IS 1608-1
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Tensile Test (Reduction Area)	IS:1608 part 1
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Vickers Hardness Test (HV 0.5)	IS 1501 (Part 1)
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Vickers Hardness Test (HV 0.5)	ISO 6507-1
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Vickers Hardness Test (HV 1.0)	IS 1501 (Part 1)
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Vickers Hardness Test (HV 1.0)	ISO 6507-1
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Charpy Impact " V " and "U" notch at temperature : +50°C to -196°C	BS EN ISO 9016

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141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Charpy Impact " V " and "U" notch at temperature : +50°C to -196°C	EN ISO 148-1
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Charpy Impact "V" & "U" notch at temperature : +50 °C to -196° C	IS 1757-1
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Charpy Impact "V" notch at temperature : +50 °C to -196°C	IS 3600-2
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Flattening Test	ASTM A 1016
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Flattening test	IS 2328
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Flattening Test	ISO 8492
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals (Stainless steel)	Bend Test	ASTM A 262 Practice E
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys	Brinell Hardness (HBW 10/3000)	IS 1500-1
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys	Brinell Hardness (HBW 10/3000)	ISO 6506-1
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys	Brinell Hardness (HBW 5.0/750)	ASTM E-10
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys	Micro-Vickers Hardness Test (HV 0.3)	ASTM E-384
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys	Micro-Vickers Hardness Test (HV 0.5)	ASTM E-384
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys	Micro-Vickers Hardness Test (HV 1.0)	ASTM E-384
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals Weldments	Bend Test	AWS D1.1

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155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & NonFerrous Metals & Alloys	Brinell Hardness (HBW 5.0/750)	IS 1500 PART-1
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & NonFerrous Metals & Alloys	Rockwell Hardness Test (HRBW)	IS 1586: Part 1
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Metals and alloys	Micro Vickers Hardness (HV 0.1)	ASTM E-384
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals Weldments in (Stainless steel)	Bend Test	AWS D1.6
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tubes	Drift Expansion / Flaring Test	IS 2335
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NUTS	Proof load test for Nuts at specified load Size: (M6 to M36)	IS 1367-6
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NUTS	Proof load test for Nuts at specified load Size: (M6 to M36)	ISO 898-2
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipes & Tubes	Reverse bend test	ASTM A 249
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipes and Tubes	Drift Expansion Test / Flaring Test	ISO 8493
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates, Sheets , wires, pipes and tubes , rods, Bar (Round/Square/Hexagonal), forged,casting and assemblies in welding	Tensile test (0.2 % Proof Stress)	ISO 6892-1
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates, Sheets , wires, pipes and tubes , rods, Bar (Round/Square/Hexagonal), forged,casting and assemblies in welding	Tensile Test (Reduction Area)	ASTM E-8/E-8M
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates, Sheets , wires, pipes and tubes , rods, Bar (Round/Square/Hexagonal), forged,casting and assemblies in welding	Tensile Test (Ultimate Tensile Strength)	ASTM E-8/E-8M
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates, Sheets , wires, pipes and tubes , rods, Bar (Round/Square/Hexagonal), forged,casting and assemblies in welding	Tensile Test (Ultimate Tensile Strength)	ISO 6892-1
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates, Sheets , wires, pipes and tubes , rods, Bar (Round/Square/Hexagonal), forged,casting and assemblies in welding	Tensile Test (Yield Stress)	ASTM E-8/E-8M

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169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates, Sheets , wires, pipes and tubes , rods, Bar (Round/Square/Hexagonal), forged,casting and assemblies in welding	Tensile Test (Yield Stress)	ISO 6892-1
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates, Sheets , wires, pipes and tubes , rods, Bar (Round/Square/Hexagonal), forged,casting and assemblies in welding	Tensile Test(Yield Stress)	IS 1608-1
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates, Sheets , wires, pipes and tubes , rods, Bar (Round/Square/Hexagonal), forged,casting and assemblies in welding	Tensile Test(Reduction Area)	ISO 6892-1
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates, Sheets , wires, pipes and tubes , rods, Bar (Round/Square/Hexagonal), forged,casting and assemblies in welding	Deviation of forms	IS 7906-7
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates, Sheets , wires, pipes and tubes , rods, Bar (Round/Square/Hexagonal), forged,casting and assemblies in welding	Tensile Test (%Elongation)	ISO 6892-1
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates, sheets, pipes, tubes, bar and welded assemblies	Fracture Test	AWS D1.2
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates, sheets,foils, wires, bar (Round /Square/Hexagonal), pipe,tubes and assemblies in welding.	Tensile Test (Ultimate Tensile Strength)	IS 1608-1
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates,pipes, tubes, bar and welded assemblies	Fracture Test	AWS D1.6
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates,Sheet,Pipes and tubes in welded form	Nick Break Test	IS 3600-8
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates,sheet,rods,wires,bar and assemblies	Bend Test	IS 1599
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates,sheet,rods,wires,bars and assemblies	Bend Test	ASTM E-290
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates,sheets, pipes, tubes, rods, bar (round, square, hexagonal)	Bend Test	AWS D1.2
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates,Sheets,rods,wires,bar and assemblies	Bend Test	ISO 7438
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates,Sheets,rods,wires,bar and assemblies.	Bend Test	IS 1599

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183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates,sheets,rods,wires,bars and assemblies	Bend Test	ASTM E-290
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods, pipes, forging,castings,welding and assemblies in Ferrous & Non - Ferrous Materials.	Brinell Hardness (HBW 10/3000)	ASTM E 10
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods, pipes, forging,castings,welding and assemblies in Ferrous & Non Ferrous Materials.	Brinell Hardness Test (HBW 5.0 /750)	ISO 6506-1
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods, pipes, forging,castings,welding and assemblies in Ferrous & Non Ferrous Materials.	Brinell Hardness (HBW10/1000)	ASTM E10
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,pipes and assemblies in Ferrous & Non - Ferrous Materials	Vickers Hardness Test (HV 0.3)	ISO 6507-1
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,pipes and assemblies in Ferrous & Non - Ferrous Materials.	Brinell Hardness (HBW 10/1000)	IS 1500 PART-1
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,pipes and assemblies in Ferrous & Non - Ferrous Materials.	Brinell Hardness (HBW 10/1000)	ISO 6506-1
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,pipes, forgings,castings,weldings and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell Hardness Test (HRA)	IS 1586: Part 1
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell hardness test (HR 15 N)	IS 1586, Part -1
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell Hardness Test (HR 15N)	ISO 6508: Part 1
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell Hardness Test (HR 30N)	IS 1586: Part 1
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell Hardness Test (HR 30N)	ISO 6508: Part 1
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell Hardness Test (HR 45N)	IS 1586: Part 1
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell Hardness Test (HR 45N)	ISO 6508, Part 1

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197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell Hardness Test (HR 45TW)	IS 1586 : Part 1
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell Hardness Test (HR 45TW)	ISO 6508: Part 1
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell Hardness Test (HR 15TW)	IS 1586: Part 1
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell Hardness Test (HR 15TW)	ISO 6508: Part 1
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell Hardness Test (HR 30TW)	IS 1586: Part 1
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell Hardness Test (HR 30TW)	ISO 6508: Part 1
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Rockwell Hardness Test (HRBW)	IS 1586: Part 1
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Vickers Hardness Test (HV 0.1)	IS 1501 (Part 1)
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Vickers Hardness Test (HV 0.3)	IS 1501 (Part 1)
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Vickers Hardness Test (HV 30)	ASTM E 92
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Vickers Hardness Test (HV 30)	ISO 6507-1
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Vickers Hardness Test (HV 50)	ASTM E 92
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials.	Vickers Hardness Test (HV 50)	ISO 6507-1
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non - Ferrous Materials. & Products	Rockwell Hardness Test (HRA)	ISO 6508: Part 1

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211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	.Micro Vickers Hardness (HV0.3)	IS 1501-1
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	Micro Vickers Hardness (HV0.1)	IS 1501-1
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	Micro Vickers Hardness (HV0.1)	ISO 6507-1
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	Rockwell Hardness Test (HRC)	IS 1586-1
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	Rockwell Hardness Test(HRBW)	ISO 6508-1
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	Rockwell Hardness Test(HRC)	ISO 6508-1
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	Rockwell Hardness-HRC	IS 1586-1
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	Vickers Hardness (HV 10)	ASTM E-92
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	Vickers Hardness (HV 10)	IS 1501-1
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	Vickers Hardness (HV 10)	ISO 6507-1
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	Vickers Hardness (HV 30)	IS 1501-1
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	Vickers Hardness (HV 5)	IS 1501-1
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	Vickers Hardness (HV 5)	ISO 6507-1
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials.	Vickers Hardness (HV 50)	IS 1501-1

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225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous Materials. & Products	Surface Roughness measurement	IS 3073
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Products like bar (Round, Square,Hexagonal) Rods,wires, pipes, tubes, sheets,foils and assemblies in Ferrous & Non Ferrous. Materials.	Vickers Hardness (HV 5)	ASTM E-92
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Rods & Bars	Nominal Mass	IS 1786
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheet and Plates	Erichsen Cupping Test	ISO 20482
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheets and plates	Erichsen Cupping Test	IS 10175
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Fracture Test	IS 3600 Part-8
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes & Pipes	Crushing Test	IS 3601
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes & Pipes	Flange Test	IS 2330
233	MECHANICAL-METALLOGRAPHY TEST	for Welding / casting / forging/ rolling products	Macro Etch Test Examination	ASTM E-340
234	MECHANICAL-METALLOGRAPHY TEST	Fusion Welded Joints and Weld Metal in Steel.	Macro Etch Test Examination	IS 3600-9
235	MECHANICAL-METALLOGRAPHY TEST	Cast iron	Microstructure of Graphite in Iron Castings. (Microscopic method)	ASTM A 247
236	MECHANICAL-METALLOGRAPHY TEST	Fusion Welded Joints and Weld Metal in Steel.	Macro Etch Test Examination	ASME SEC IX
237	MECHANICAL-METALLOGRAPHY TEST	Metal & Alloys	Micro structural phase analysis	ASM Handbook Volume 9
238	MECHANICAL-METALLOGRAPHY TEST	Metal and alloys	Thickness of electroplated Coating	IS 3203
239	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Classification of Etch structure of Duplex Stainless steel	ASTM A 923, Method A

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240	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Corrosion Rate i.e. susceptibility to intergranular corrosion	ASTM A 262, Practice E
241	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Corrosion Rate i.e. susceptibility to intergranular corrosion	ASTM A 262,Practice A
242	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Corrosion Rate i.e. susceptibility to intergranular corrosion	ASTM A 262,Practice B
243	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Corrosion Rate i.e. susceptibility to intergranular corrosion	ASTM A 262,Practice F
244	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel plates, Sheets,Bar(Round, hexagonal,Square)Forgings, Casting,Pipes,Tubes	Corrosion Rate i.e. susceptibility to intergranular corrosion	ASTM A 262-Practice C
245	MECHANICAL-METALLOGRAPHY TEST	Steel	Case depth by micro-hardness method (0.1kgf to 1.0 kgf)	IS 6416
246	MECHANICAL-METALLOGRAPHY TEST	Steel	Case Depth by microscopic method at 100 X	IS 6416
247	MECHANICAL-METALLOGRAPHY TEST	Steel	Determination of content of nonmetallic inclusions Microscopic method using standard diagrams	IS 4163
248	MECHANICAL-METALLOGRAPHY TEST	Steel	Determining Average Grain Size by comparison method (Microscopical method)	ASTM E-112
249	MECHANICAL-METALLOGRAPHY TEST	Steel	Determining the Inclusion Content of Steel (Microscopic method)	ASTM E-45
250	MECHANICAL-METALLOGRAPHY TEST	Steel	Measurement of Coating Thicknesses by the Magnetic Method :Nonmagnetic Coatings on Magnetic Basis Metals	ASTM B 499-09-e1
251	MECHANICAL-METALLOGRAPHY TEST	Steel	Measurement of Depth of Decarburization of Steel by (Microscopic Method)	ASTM E-1077
252	MECHANICAL-METALLOGRAPHY TEST	steel	measuring decarburized depth of steel by (Microscopic method)	IS 6396
253	MECHANICAL-METALLOGRAPHY TEST	Steel	MICROGRAPHIC DETERMINATION OF THE APPARENT GRAIN SIZE	IS 4748

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254	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Macro Etch Test Examination	IS 13015
255	MECHANICAL-METALLOGRAPHY TEST	wrought steel products	Macro Etch Test Examination	IS 11371
256	MECHANICAL-METALLOGRAPHY TEST	Wrought, Nickel Rich, Chromium Bearing Alloys	Corrosion Rate i.e. susceptibility to intergranular corrosion	ASTM G28 - 02 , (Method B)
257	MECHANICAL-METALLOGRAPHY TEST	Wrought, Nickel Rich, Chromium Bearing Alloys	Corrosion Rate i.e. susceptibility to intergranular corrosion	ASTM G28 - 02, (Method A)