SCOPE OF ACCREDITATION

Laboratory Name : L&T-MHI POWER BOILERS PRIVATE LIMITED, QA LAB, HAZIRA WORKS, SURAT-HAZIRA ROAD, SURAT, 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	Carbon, Low alloy Steels & High alloy steel	Aluminium	ASTM E415
2	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Antimony	ASTM E415
3	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Boron	ASTM E415
4	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Carbon	ASTM E415
5	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Chromium	ASTM E415
6	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Cobalt	ASTM E415
7	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Copper	ASTM E415
8	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Lead	ASTM E415
9	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Magnesium	ASTM E415
10	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Manganese	ASTM E415
11	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Molybdenum	ASTM E415
12	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Nickel	ASTM E415
13	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Niobium	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Nitrogen	ASTM E415
15	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Phosphorus	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Silicon	ASTM E415
17	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Sulphur	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Tantalum	ASTM E415

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Laboratory Name :	L&T-MHI POWER BOILERS PRIVATE LIMITED, QA LAB, HAZIRA WORKS, SURAT-HAZIRA ROAD, SURAT, GUJARAT, INDIA		
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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	Carbon, Low alloy Steels & High alloy steel	Tin	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Titanium	ASTM E415
21	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Tungsten	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Carbon, Low alloy Steels & High alloy steel	Vanadium	ASTM E415
23	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminum	ASTM E3047
24	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	ASTM E3047
25	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	ASTM E3047
26	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	ASTM E3047
27	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	ASTM E3047
28	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Nickel	ASTM E3047
29	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium	ASTM E3047
30	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorous	ASTM E3047
31	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	ASTM E3047
32	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulphur	ASTM E3047
33	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	ASTM E3047
34	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tungsten	ASTM E3047
35	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Vanadium	ASTM E3047
36	CHEMICAL- METALS & ALLOYS	Nickel and its alloys	Cobalt	ASTM E3047
37	CHEMICAL- METALS & ALLOYS	Nickel and its alloys	Copper	ASTM E3047

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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	Nickel and its alloys	Iron	ASTM E3047
39	CHEMICAL- METALS & ALLOYS	Nickel and its alloys	Magnesium	ASTM E3047
40	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Aluminium	ASTM E1086
41	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Antimony	ASTM E1086
42	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Arsenic	ASTM E1086
43	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Boron	ASTM E1086
44	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Carbon	ASTM E1086
45	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Chromium	ASTM E1086
46	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Cobalt	ASTM E1086
47	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Copper	ASTM E1086
48	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Manganese	ASTM E1086
49	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Molybdenum	ASTM E1086
50	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Nickel	ASTM E1086
51	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Niobium	ASTM E1086
52	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Nitrogen	ASTM E1086
53	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Phosphorus	ASTM E1086
54	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Silicon	ASTM E1086
55	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Sulphur	ASTM E1086
56	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Tantalum	ASTM E1086

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57	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Tin	ASTM E1086
58	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Titanium	ASTM E1086
59	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Tungsten	ASTM E1086
60	CHEMICAL- METALS & ALLOYS	stainless steel plates, tubes, pipes, fitting and forging	Vanadium	ASTM E1086
61	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All weld Tensile specimen	Tensile Test - 0.2% Proof Strength	ASTM E8/E8M
62	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Elevated Temperature (upto 900 °C) Tensile Test - %Elongation	ASTM E21
63	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Elevated Temperature (upto 900 °C) Tensile Test - %Elongation	ISO 6892 (Part 2)
64	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Elevated Temperature (upto 900 °C) Tensile Test - %Reduction in Area	ASTM E21
65	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All Weld Tensile specimens	Elevated Temperature (upto 900 °C) Tensile Test - %Reduction in Area	ISO 6892 (Part 2)
66	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Elevated Temperature (upto 900 °C) Tensile Test - 0.2% Proof Strength	ASTM E21
67	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Elevated Temperature (upto 900 °C) Tensile Test - 0.2% Proof Strength	ISO 6892 (Part 2)
68	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Elevated Temperature (upto 900 °C) Tensile Test - Ultimate Tensile Strength	ASTM E21
69	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Elevated Temperature Tensile Test - Ultimate Tensile Strength	ISO 6892 (Part 2)
70	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Elevated Temperature Tensile Test - Yield Strength	ASTM E21
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Elevated Temperature Tensile Test - Yield Strength	ISO 6892 (Part 2)

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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
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - 0.2% Proof Strength	IBR 1950
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - 0.2% Proof Strength	IS 1608 (part 1)
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - 0.2% Proof Strength	ISO 6892 (Part 1)
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - Reduction in Area	ASTM E8/E8M
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - Reduction in Area	IBR 1950
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - Reduction in Area	IS 1608 (part 1)
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - Reduction in Area	ISO 6892 (Part 1)
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - Yield Strength	ASTM E8/E8M
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - Yield Strength	IBR 1950
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - Yield Strength	IS 1608 (part 1)
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - Yield Strength	ISO 6892 (Part 1)
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - %Elongation	ASTM E8/E8M
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - %Elongation	IBR 1950
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - %Elongation	IS 1608 (part 1)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All weld Tensile specimens	Tensile Test - %Elongation	ISO 6892 (Part 1)
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon steel, alloy steel & stainless steel tubes and pipes	Flattening Test	IS 2328
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon steel, alloy steel & stainless steel tubes and pipes	Flaring / Drift Test	ASTM A 370
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon steel, alloy steel & stainless steel tubes and pipes	Flaring / Drift Test	IS 2335–2005
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon steel, alloy steel & stainless steel tubes and pipes	Flattening Test	ASTM A 370
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Bend test	IBR1950
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Elevated Temperature (up to 900 °C) tensile test- 1% Proof strength	ISO 6892 (Part2)
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Intergranular corrosion	ASTM A262 (Practice A)
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Tensile test- 1% Proof strength	ISO 6892 (Part1)
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloy & product	Tensile test - Yield strength	ASTM A770/A770M-03
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & product	Intergranular corrosion	ASTM E262 (Practice E)
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	ASTM A370
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	ASTM E290
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	IS 1599

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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
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elevated Temperature (upto 900 °C) Tensile Test - %Elongation	ASTM E21
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elevated Temperature (upto 900 °C) Tensile Test - %Elongation	ISO 6892 (Part 2)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elevated Temperature (upto 900 °C) Tensile Test - %Reduction in Area	ASTM E21
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elevated Temperature (upto 900 °C) Tensile Test - %Reduction in Area	ISO 6892 (Part 2)
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elevated Temperature (upto 900 °C) Tensile Test - 0.2% Proof Strength	ASTM E21
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elevated Temperature (upto 900 °C) Tensile Test - 0.2% Proof Strength	ISO 6892 (Part 2)
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elevated Temperature (upto 900 °C) Tensile Test - Ultimate Tensile Strength	ASTM E21
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elevated Temperature (upto 900 °C) Tensile Test - Ultimate Tensile Strength	ISO 6892 (Part 2)
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elevated Temperature (upto 900 °C) Tensile Test - Yield Strength	ASTM E21
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elevated Temperature (upto 900 °C) Tensile Test - Yield Strength	ISO 6892 (Part 2)
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Micro Hardness Vickers	ASTM E384
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Micro Hardness Vickers	ASTM E384
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Micro Hardness Vickers	IS 1501 (Part 1)
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Micro Hardness Vickers	IS 1501 (Part 1)

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114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Micro Hardness Vickers	ISO 6507 (Part 1)
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Micro Hardness Vickers	ISO 6507 (Part 1)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile test - % Area reduction	ASTM A770/A770M-03
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile test - % Elongation	ASTM A770/A770M-03
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - %Elongation	ASTM A370
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - %Elongation	ASTM E8/E8M
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - %Elongation	IBR 1950
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - %Elongation	IS 1608 (part 1)
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - %Elongation	ISO 6892 (Part 1)
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - 0.2% Proof Strength	ASTM A370
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile test - 0.2% Proof strength	ASTM A370/A370M-03
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile test - 0.2% proof strength	ASTM A770/A770M-03
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - 0.2% Proof Strength	ASTM E8/E8M
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - 0.2% Proof Strength	IBR 1950

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128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - 0.2% Proof Strength	IS 1608 (part 1)
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - 0.2% Proof Strength	ISO 6892 (Part 1)
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Reduction in Area	ASTM A370
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Reduction in Area	ASTM E8/E8M
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Reduction in Area	IBR 1950
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Reduction in Area	IS 1608 (part 1)
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Reduction in Area	ISO 6892 (Part 1)
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Ultimate Tensile Strength	ASTM A370
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile test - Ultimate tensile strength	ASTM A770/A770M-03
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Ultimate Tensile Strength	ASTM E8/E8M
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Ultimate Tensile Strength	IBR 1950
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Ultimate Tensile Strength	IS 1608 (part 1)
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Ultimate Tensile Strength	ISO 6892 (Part 1)
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Yield Strength	ASTM A370

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142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Yield Strength	ASTM E8/E8M
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Yield Strength	IBR 1950
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Yield Strength	IS 1608 (part 1)
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test - Yield Strength	ISO 6892 (Part 1)
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test	ASTM E92
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test	ASTM E92
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test	ASTM E92
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test	IS 1501 (Part 1)
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test	IS 1501 (Part 1)
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & products	Vickers Hardness Test	IS 1501 (Part 1)
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & products	Vickers Hardness Test	ISO 6507 (Part 1)
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test	ISO 6507 (Part 1)
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & products	Vickers Hardness Test	ISO 6507 (Part 1)
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Drift-expanding test	ISO 8493

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156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Flattening test	ISO 8492
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Micro Hardness Vickers	IS 1501 (Part 1)
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Micro Hardness Vickers	ISO 6507 (Part 1)
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Tensile Test - Reduction in Area	ASTM E8/E8M
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Tensile Test - %Elongation	IS 1608 (part 1)
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Bend Test	ASTM E290
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Bend Test	IS 1599 :2012
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Elevated Temperature (upto 900 °C) Tensile Test - %Elongation	ASTM E21
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Elevated Temperature (upto 900 °C) Tensile Test - %Elongation	ISO 6892 (Part 2)
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Elevated Temperature (upto 900 °C) Tensile Test - %Reduction in Area	ASTM E21
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Elevated Temperature (upto 900 °C) Tensile Test - %Reduction in Area	ISO 6892 (Part 2)
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Elevated Temperature (upto 900 °C) Tensile Test - 0.2% Proof Strength	ASTM E21
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Elevated Temperature (upto 900 °C) Tensile Test - 0.2% Proof Strength	ISO 6892 (Part 2)
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Elevated Temperature (upto 900 °C) Tensile Test - 1% Proof Strength	ASTM E21

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170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Elevated Temperature (upto 900 °C) Tensile Test - 1% Proof Strength	ISO 6892 (Part 2)
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Elevated Temperature (upto 900 °C) Tensile Test - Ultimate Tensile Strength	ASTM E21
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Elevated Temperature (upto 900 °C) Tensile Test - Ultimate Tensile Strength	ISO 6892 (Part 2)
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Elevated Temperature (upto 900 °C) Tensile Test - Yield Strength	ASTM E21
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Elevated Temperature (upto 900 °C) Tensile Test - Yield Strength	ISO 6892 (Part 2)
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Tensile Test - Reduction in Area	IBR 1950
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Tensile Test - Reduction in Area	IS 1608 (part 1)
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Tensile Test - Reduction in Area	ISO 6892 (Part 1)
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Tensile Test - Yield Strength	IS 1608 (part 1)
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Tensile Test - Yield Strength	ASTM E8/E8M
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Tensile Test - Yield Strength	IBR 1950
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Tensile Test - Yield Strength	ISO 6892 (Part 1)
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Tensile Test - %Elongation	ASTM E8/E8M
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Tensile Test - %Elongation	ISO 6892 (Part 1)

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184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous materials, Alloys and product	Tensile Test- % Elongation	IBR 1950
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Micro Hardness Vickers	ASTM E384
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Micro Hardness Vickers	ASTM E384
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Micro Hardness Vickers	IS 1501 (Part 1)
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Micro Hardness Vickers	ISO 6507 (Part 1)
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Tensile Test - 0.2% Proof Strength	IBR 1950
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Tensile Test - 0.2% Proof Strength	IS 1608 (part 1)
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Tensile Test - 0.2% Proof Strength	ISO 6892 (Part 1)
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Tensile Test - Ultimate Tensile Strength	ASTM E8/E8M
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Tensile Test - Ultimate Tensile Strength	IS 1608 (part 1)
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Tensile Test - Ultimate Tensile Strength	ISO 6892 (Part 1)
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test	IS 1501 (Part 1)
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test	ASTM E92
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test	ASTM E92

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198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test	ASTM E92
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test	IS 1501 (Part 1)
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test	IS 1501 (Part 1)
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test	ISO 6507 (Part 1)
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test	ISO 6507 (Part 1)
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test	ISO 6507 (Part 1)
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless steel	Intergranular corrosion	ASTM A262(Practice E)
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Micro Hardness Vickers	ASTM E384
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Micro Hardness Vickers	ASTM E384
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Micro Hardness Vickers	ISO 6507 (Part 1)
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Micro Hardness Vickers	ISO 6507 (Part 1)
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Tensile Test - Ultimate Tensile Strength	ASME (SECTION IX)
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Tensile Test - Ultimate Tensile Strength	IBR
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Tensile Test - Ultimate Tensile Strength	ISO 6892 (Part 1)

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212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Vickers Hardness Test	ASTM E92
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Vickers Hardness Test	IS 1501 (Part 1)
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test Specimens	Bend Test - Face, Side and Root bends	ASME (Section IX)
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test Specimens	Bend Test - Face, Side and Root bends	ASTM E190
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Bend Test - Face, Side and Root bends	AWS D1.1
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test Specimens	Bend Test - Face, Side and Root bends	BS EN ISO 5173
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Bend Test - Face, Side and Root bends	IBR 1950
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Micro Hardness Vickers	IS 1501 (Part 1)
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Micro Hardness Vickers	IS 1501 (Part 1)
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Micro Hardness Vickers	ISO 6507 (Part 1)
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Micro Hardness Vickers	ISO 6507 (Part 1)
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Tensile Test - Ultimate Tensile Strength	ASME (SECTION IX)
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test specimens	Tensile Test - Ultimate Tensile Strength	ASTM E8/E8M
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Vickers Hardness Test	ASTM E92

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226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Vickers Hardness Test	ASTM E92
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Vickers Hardness Test	ASTM E92
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Vickers Hardness Test	IS 1501 (Part 1)
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Vickers Hardness Test	IS 1501 (Part 1)
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Vickers Hardness Test	IS 1501 (Part 1)
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Vickers Hardness Test	ISO 6507 (Part 1)
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Vickers Hardness Test	ISO 6507 (Part 1)
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Vickers Hardness Test	ISO 6507 (Part 1)
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds& Welded test specimens	Tensile Test - Ultimate Tensile Strength	IS 1608 (part 1)
235	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, alloys & products	Average Grain Size No.	IS 4748 RA 2017
236	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys and products	Average Grain Size No.	ASTM E112
237	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys and products	Microstructural Examination	ASME Volume 9 hand book
238	MECHANICAL-METALLOGRAPHY TEST	Non-ferrous materials, Alloys and Products	Average Grain Size No.	ASTM E112
239	MECHANICAL-METALLOGRAPHY TEST	Non-ferrous materials, Alloys and Products	Average Grain Size No.	IS 4748
240	MECHANICAL-METALLOGRAPHY TEST	Non-ferrous materials, Alloys and Products	Microstructural Examination	ASME volume 9 handbook

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241	MECHANICAL-METALLOGRAPHY TEST	weld and welded test specimens	Macro etch test	ASME Sec IX
242	MECHANICAL-METALLOGRAPHY TEST	Weld and Welded Test Specimens	Macro Examination	ASTM E340
243	MECHANICAL-METALLOGRAPHY TEST	Weld and Welded Test Specimens	Microstructural Examination	ASME Volume 9 handbook