National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY ASSURANCE LAB OF JSW STEEL LIMITED, GEETAPURAM, DOLVI, TALUKA: PEN, RAIGAD, PEN, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 20/03/2026 to 19/03/2030 **Last Amended on** 05/05/2026

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 Testing				
1	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Aluminium	JIS G1253
2	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Boron	JIS G1253
3	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Carbon	ASTM E1019
4	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Carbon	JIS G1253
5	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Chromium	JIS G1253
6	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Copper	JIS G1253
7	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Manganese	ASTM E415
8	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Manganese	IS 8811
9	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Manganese	JIS G1253
10	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Molybdenum	ASTM E415
11	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Molybdenum	IS 8811
12	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Molybdenum	JIS G1253
13	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Nickel	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Nickel	IS 8811
15	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Nickel	JIS G1253
16	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Niobium	ASTM E415
17	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Niobium	IS 8811
18	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Niobium	JIS G1253
19	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Nitrogen	ASTM E1019

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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
20	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Nitrogen	ASTM E415
21	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Nitrogen	IS 228 (Part 23)
22	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Nitrogen	JIS G1253
23	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Phosphorus	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Phosphorus	IS 8811
25	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Phosphorus	JIS G1253
26	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Silicon	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Silicon	IS 8811
28	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Silicon	JIS G1253
29	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Sulphur	ASTM E1019
30	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Sulphur	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Sulphur	IS 8811
32	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Sulphur	JIS G1253
33	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Titanium	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Titanium	IS 8811
35	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Titanium	JIS G1253
36	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Vanadium	ASTM E415
37	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Vanadium	IS 8811
38	CHEMICAL- METALS & ALLOYS	Ferrous alloys- Plain Carbon and Low Alloy Steels	Vanadium	JIS G1253
39	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Aluminium	ASTM E415

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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
40	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Aluminium	IS 8811
41	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Boron	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Boron	IS 8811
43	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Calcium	ASTM E415
44	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Calcium	JIS G1253
45	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Carbon	ASTM E415
46	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Carbon	IS 8811
47	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Chromium	ASTM E415
48	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Chromium	IS 8811
49	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Copper	ASTM E415
50	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Copper	IS 8811
51	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Oxygen	ASTM E1019
52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Proof Stress (UTM 250KN HSM2)	ASTM A370
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Stress (UTM 250KN HSM2)	ASTM A370
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (BRM LAB-UTM 1000KN)	ASTM A370
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (BRM LAB-UTM 1000KN)	IS 1608 (Part 1)
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (BRM LAB-UTM 1000KN)	ISO 6892 (Part 1)
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (BRM LAB-UTM 1200KN)	ASTM A370

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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
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (BRM LAB-UTM 1200KN)	IS 1608 (Part 1)
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (BRM LAB-UTM 1200KN)	ISO 6892 (Part 1)
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (BRM LAB-UTM 1500KN)	ASTM A370
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (BRM LAB-UTM 1500KN)	IS 1608 (Part 1)
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (BRM LAB-UTM 1500KN)	ISO 6892 (Part 1)
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (BRM LAB-UTM 600KN)	ASTM A370
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (BRM LAB-UTM 600KN)	IS 1608 (Part 1)
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (BRM LAB-UTM 600KN)	ISO 6892 (Part 1)
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 250KN HSM2)	ASTM A370
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 250KN HSM2)	IS 1608 (Part 1)
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 250KN HSM2)	ISO 6892 (Part 1)
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 1500KN HSM2)	ASTM A370
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 1500KN HSM2)	IS 1608 (Part 1)
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 1500KN HSM2)	ISO 6892 (Part 1)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 600KN HSM2)	ASTM A370
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 600KN HSM2)	IS 1608 (Part 1)
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 600KN HSM2)	ISO 6892 (Part 1)
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTNES 60 T FIE)	ASTM A370
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTNES 60 T FIE)	IS 1608 (Part 1)
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTNES 60 T FIE)	ISO 6892 (Part 1)
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 60 T FSA)	ASTM A370
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 60 T FSA)	IS 1608 (Part 1)
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 60 T FSA)	ISO 6892 (Part 1)
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 60T-SHIMADZU)	ASTM A370
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 60T-SHIMADZU)	IS 1608 (Part 1)
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	%Elongation (UTM 60T-SHIMADZU)	ISO 6892 (Part 1)
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Bend test	ASTM A370
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Bend test	IS 1599

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86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Brinell Hardness test, 10mm/3000kg load	ASTM E10
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Brinell Hardness test, 10mm/3000kg load	ISO 6506 (Part 1)
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Brinell Hardness test, 10mm/3000kg load	IS 1500 (Part 1)
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Charpy Impact test FIT 300J at -20°C	IS 1757 (Part 1)
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Charpy Impact test FIT 300J at -20°C	ISO 148 (Part 1)
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Charpy Impact test FIT 300J at -40 deg C	ASTM E23
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Erichsen Cupping Test, 2 to 3.5mm thickness	IS 6240
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (BRM LAB-UTM 1000KN)	ASTM A370
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (BRM LAB-UTM 1000KN)	IS 1608 (Part 1)
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (BRM LAB-UTM 1000KN)	ISO 6892 (Part 1)
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (BRM LAB-UTM 1200KN)	ASTM A370
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (BRM LAB-UTM 1200KN)	IS 1608 (Part 1)
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (BRM LAB-UTM 1200KN)	ISO 6892 (Part 1)
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (BRM LAB-UTM 1500KN)	ASTM A370

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100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (BRM LAB-UTM 1500KN)	IS 1608 (Part 1)
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (BRM LAB-UTM 1500KN)	ISO 6892 (Part 1)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (BRM LAB-UTM 600KN)	ASTM A370
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (BRM LAB-UTM 600KN)	IS 1608 (Part 1)
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (BRM LAB-UTM 600KN)	ISO 6892 (Part 1)
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 1500KN HSM2)	ASTM A370
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 1500KN HSM2)	IS 1608 (Part 1)
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 1500KN HSM2)	ISO 6892 (Part 1)
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 250KN HSM2)	IS 1608 (Part 1)
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 250KN HSM2)	ISO 6892 (Part 1)
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 60 T FSA)	ASTM A370
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 60 T FSA)	IS 1608 (Part 1)
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 60 T FSA)	ISO 6892 (Part 1)
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 600KN HSM2)	ASTM A370

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114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 600KN HSM2)	IS 1608 (Part 1)
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 600KN HSM2)	ISO 6892 (Part 1)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 60T-SHIMADZU)	ASTM A370
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 60T-SHIMADZU)	IS 1608 (Part 1)
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTM 60T-SHIMADZU)	ISO 6892 (Part 1)
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTNES 60 T FIE)	ASTM A370
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTNES 60 T FIE)	IS 1608 (Part 1)
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Proof Stress (UTNES 60 T FIE)	ISO 6892 (Part 1)
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness RASNE-02/98-107 HRBW	ASTM E18
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness RASNE-02/98-107 HRBW	IS1586
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness RASNE-02/98-107 HRBW	ISO 6508 (Part 1)
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness RASNE-02/98-107 HRC	ASTM E18
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness RASNE-02/98-107 HRC	IS 1586 (Part 1)
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness RASNE-02/98-107 HRC	ISO 6508 (Part 1)

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128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness RASNET-1 HRBW	ASTM E18
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness RASNET-1 HRC	ASTM E18
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness RASNET-1 HRC	IS 1586 (Part 1)
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness RASNET-1 HRC	ISO 6508 (Part 1)
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTNES 60 T FIE)	ASTM A370
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTNES 60 T FIE)	IS 1608 (Part 1)
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTNES 60 T FIE)	ISO 6892 (Part 1)
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (BRM LAB-UTM 1000KN)	ASTM A370
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (BRM LAB-UTM 1000KN)	IS 1608 (Part 1)
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (BRM LAB-UTM 1000KN)	ISO 6892 (Part 1)
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (BRM LAB-UTM 1200KN)	ASTM A370
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (BRM LAB-UTM 1200KN)	IS 1608 (Part 1)
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (BRM LAB-UTM 1200KN)	ISO 6892 (Part 1)
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (BRM LAB-UTM 1500KN)	ASTM A370

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142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (BRM LAB-UTM 1500KN)	IS 1608 (Part 1)
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (BRM LAB-UTM 1500KN)	ISO 6892 (Part 1)
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (BRM LAB-UTM 600KN)	ASTM A370
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (BRM LAB-UTM 600KN)	IS 1608 (Part 1)
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (BRM LAB-UTM 600KN)	ISO 6892 (Part 1)
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 1500KN HSM2)	ASTM A370
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 1500KN HSM2)	IS 1608 (Part 1)
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 1500KN HSM2))	ISO 6892 (Part 1)
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 250KN HSM2)	ASTM A370
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 250KN HSM2)	IS 1608 (Part 1)
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 250KN HSM2)	ISO 6892 (Part 1)
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 60 T FSA)	ASTM A370
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 60 T FSA)	IS 1608 (Part 1)
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 60 T FSA)	ISO 6892 (Part 1)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 600KN HSM2)	ASTM A370
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 600KN HSM2)	IS 1608 (Part 1)
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 600KN HSM2)	ISO 6892 (Part 1)
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 60T-SHIMADZU)	ASTM A370
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 60T-SHIMADZU)	IS 1608 (Part 1)
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Ultimate Tensile Strength (UTM 60T-SHIMADZU)	ISO 6892 (Part 1)
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Vickers Hardness (QNESS-HSM2) HV5	ASTM E384
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Vickers Hardness (QNESS-HSM2) HV5	IS 1501 (Part 1)
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Vickers Hardness(QNESS-HSM2) HV5	ISO 6507 (Part 1)
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Vickers Hardness(Qness-HSM2) HV10	ASTM E384
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Vickers Hardness(Qness-HSM2) HV10	IS 1501 (Part 1)
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Vickers Hardness(Qness-HSM2) HV10	ISO 6507 (Part 1)
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Vickers Hardness(VM 50) HV5	ASTM E384
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Vickers Hardness(VM 50)HV5	IS 1501 (Part 1)

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170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Vickers Hardness(VM 50)HV5	ISO 6507 (Part 1)
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Vickers Hardness(VM50)HV10	ASTM E384
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Vickers Hardness(VM50)HV10	IS 1501 (Part 1)
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Vickers Hardness(VM50)HV10	ISO 6507 (Part 1)
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (BRM LAB-UTM 1000KN)	ASTM A370
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (BRM LAB-UTM 1000KN)	IS 1608 (Part 1)
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (BRM LAB-UTM 1000KN)	ISO 6892 (Part 1)
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (BRM LAB-UTM 1200KN)	ASTM A370
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (BRM LAB-UTM 1200KN)	IS 1608 (Part 1)
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (BRM LAB-UTM 1200KN)	ISO 6892 (Part 1)
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (BRM LAB-UTM 1500KN)	ASTM A370
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (BRM LAB-UTM 1500KN)	IS 1608 (Part 1)
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (BRM LAB-UTM 1500KN)	ISO 6892 (Part 1)
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (BRM LAB-UTM 600KN)	ASTM A370

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184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (BRM LAB-UTM 600KN)	IS 1608 (Part 1)
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (BRM LAB-UTM 600KN)	ISO 6892 (Part 1)
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 1500KN HSM2)	ASTM A370
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 1500KN HSM2)	IS 1608 (Part 1)
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 1500KN HSM2)	ISO 6892 (Part 1)
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 250KN HSM2)	IS 1608 (Part 1)
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 250KN HSM2)	ISO 6892 (Part 1)
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 60 T FSA)	ASTM A370
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 60 T FSA)	IS 1608 (Part 1)
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 60 T FSA)	ISO 6892 (Part 1)
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 600KN HSM2)	ASTM A370
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 600KN HSM2)	IS 1608 (Part 1)
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 600KN HSM2)	ISO 6892 (Part 1)
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 60T-SHIMADZU)	ASTM A370

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198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 60T-SHIMADZU)	IS 1608 (Part 1)
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTM 60T-SHIMADZU)	ISO 6892 (Part 1)
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTNES 60 T FIE)	ASTM A370
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTNES 60 T FIE)	IS 1608 (Part 1)
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Yield Stress (UTNES 60 T FIE)	ISO 6892 (Part 1)
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Charpy impact test MTS 450J at -20°C	IS1757(Part-1)
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Charpy impact test MTS 450J at -20°C	ISO 148-1
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Charpy impact test MTS 450J at -40 deg C	ASTM E23
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Charpy Impact test MTS 750J at -20°C	IS1757 (Part-1)
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Charpy Impact test MTS 750J at -20°C	ISO 148-1
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Charpy Impact test MTS 750J at -40 deg C	ASTM E23
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness Qness-HSM2HRC	ASTM E18
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness Qness-HSM2HRC	IS 1586 (Part-1)
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness Qness-HSM2HRC	ISO 6508-1

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212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness Qness-HSM2 HRBW	ASTM E18
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness Qness-HSM2 HRBW	ISO 6508-1
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness Qness-HSM2 HRBW	IS 1586 (Part-1)
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness RASNET-1 HRBW	IS 1586 (Part-1)
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness RASNET-1 HRBW	ISO 6508-1
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness ZwickRoel-HSM2 HRBW	ASTM E18
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness ZwickRoel-HSM2 HRBW	ISO 6508-1
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness ZwickRoel-HSM2 HRBW	IS 1586 (Part-1)
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness ZwickRoel-HSM2 HRC	ASTM E18
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness ZwickRoel-HSM2 HRC	IS 1586 (Part-1)
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Rockwell Hardness ZwickRoel-HSM2 HRC	ISO 6508-1
223	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals and Alloys	Grain Size by Microscopic Method	IS 4748
224	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals and Alloys	Determination of Inclusion Rating	ASTM E45
225	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals and Alloys	Determination of Inclusion Rating	IS 4163
226	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals and Alloys	Estimation of Grain Size by Microscopic Method	ISO 643
227	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals and Alloys	Grain Size by Microscopic Method	ASTM E112

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228	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals and Alloys	Microstructure Analysis	ASM Metal Handbook Vol 9