National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : JSW STEEL LIMITED, SALEM WORKS, POTTANERI, MECHERI, SALEM, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 23/08/2022 to 22/08/2024 **Last Amended on** 15/09/2022

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 steel	Hydrogen (H)	IS 228(Part 22)
2	CHEMICAL- METALS & ALLOYS	Carbon steel	Nitrogen (N)	ASTM E1019
3	CHEMICAL- METALS & ALLOYS	Carbon steel	Oxygen (O)	ASTM E1019
4	CHEMICAL- METALS & ALLOYS	Carbon Steel	Aluminium (Al)	ASTM E415
5	CHEMICAL- METALS & ALLOYS	Carbon Steel	Aluminium (Al)	IS 8811
6	CHEMICAL- METALS & ALLOYS	Carbon Steel	Antimony (Sb)	ASTM E415
7	CHEMICAL- METALS & ALLOYS	Carbon Steel	Boron (B)	ASTM E415
8	CHEMICAL- METALS & ALLOYS	Carbon Steel	Boron (B)	IS 8811
9	CHEMICAL- METALS & ALLOYS	Carbon Steel	Calcium (Ca)	ASTM E415
10	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon (C)	ASTM E1019
11	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon (C)	ASTM E415
12	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon (C)	IS 228 (Part 20)
13	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon (C)	IS 8811
14	CHEMICAL- METALS & ALLOYS	Carbon Steel	Chromium (Cr)	ASTM E415
15	CHEMICAL- METALS & ALLOYS	Carbon Steel	Chromium (Cr)	IS 8811
16	CHEMICAL- METALS & ALLOYS	Carbon Steel	Cobalt (Co)	ASTM E415
17	CHEMICAL- METALS & ALLOYS	Carbon Steel	Cobalt (Co)	IS 8811
18	CHEMICAL- METALS & ALLOYS	Carbon Steel	Copper (Cu)	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
19	CHEMICAL- METALS & ALLOYS	Carbon Steel	Copper (Cu)	IS 8811
20	CHEMICAL- METALS & ALLOYS	Carbon Steel	Lead (Pb)	ASTM E415
21	CHEMICAL- METALS & ALLOYS	Carbon Steel	Manganese (Mn)	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Carbon Steel	Manganese (Mn)	IS 8811
23	CHEMICAL- METALS & ALLOYS	Carbon Steel	Molybdenum (Mo)	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Carbon Steel	Molybdenum (Mo)	IS 8811
25	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nickel (Ni)	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nickel (Ni)	IS 8811
27	CHEMICAL- METALS & ALLOYS	Carbon Steel	Niobium (Nb)	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Carbon Steel	Niobium (Nb)	IS 8811
29	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nitrogen (N)	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nitrogen (N)	IS 228 (Part 17)
31	CHEMICAL- METALS & ALLOYS	Carbon Steel	Oxygen (O)	IS 228 (Part 18)
32	CHEMICAL- METALS & ALLOYS	Carbon Steel	Oxygen (O)	ISO 17053
33	CHEMICAL- METALS & ALLOYS	Carbon Steel	Phosphorus (P)	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Carbon Steel	Phosphorus (P)	IS 8811
35	CHEMICAL- METALS & ALLOYS	Carbon Steel	Silicon (Si)	ASTM E415
36	CHEMICAL- METALS & ALLOYS	Carbon Steel	Silicon(Si)	IS 8811
37	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulfur (S)	ASTM E1019

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38	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulfur (S)	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulfur (S)	IS 228 (Part 20)
40	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulfur (S)	IS 8811
41	CHEMICAL- METALS & ALLOYS	Carbon Steel	Tin (Sn)	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Carbon Steel	Tin (Sn)	IS 8811
43	CHEMICAL- METALS & ALLOYS	Carbon Steel	Titanium (Ti)	ASTM E415
44	CHEMICAL- METALS & ALLOYS	Carbon Steel	Titanium (Ti)	IS 8811
45	CHEMICAL- METALS & ALLOYS	Carbon Steel	Tungsten (W)	ASTM E415
46	CHEMICAL- METALS & ALLOYS	Carbon Steel	Vanadium (V)	ASTM E415
47	CHEMICAL- METALS & ALLOYS	Carbon Steel	Vanadium (V)	IS 8811
48	CHEMICAL- METALS & ALLOYS	Carbon Steel	Zirconium (Zr)	ASTM E415
49	CHEMICAL- METALS & ALLOYS	Carbon Steel	Zirconium (Zr)	IS 8811
50	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon (C)	ASTM E1019
51	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulfur (S)	ASTM E1019
52	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulfur (S)	IS 228 (Part 20)
53	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Aluminium (Al)	ASTM E415
54	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Aluminium (Al)	IS 8811
55	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Carbon (C)	ASTM E1019
56	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Carbon (C)	ASTM E415

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57	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Carbon (C)	IS 228 (Part 20)
58	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Carbon (C)	IS 8811
59	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Chromium (Cr)	ASTM E415
60	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Chromium (Cr)	IS 8811
61	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Cobalt (Co)	ASTM E415
62	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Cobalt (Co)	IS 8811
63	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Copper (Cu)	ASTM E415
64	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Copper (Cu)	IS 8811
65	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Hydrogen (H)	IS 228(Part 22)
66	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Lead (Pb)	ASTM E415
67	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Manganese (Mn)	ASTM E415
68	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Manganese (Mn)	IS 8811
69	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Molybdenum (Mo)	ASTM E415
70	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Molybdenum (Mo)	IS 8811
71	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Nickel (Ni)	ASTM E415
72	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Nickel (Ni)	IS 8811
73	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Nitrogen (N)	ASTM E1019
74	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Nitrogen (N)	IS 228 (Part 17)
75	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Oxygen (O)	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
76	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Oxygen (O)	IS 228 (Part 18)
77	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Oxygen (O)	ISO 17053
78	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Phosphorus (P)	ASTM E415
79	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Phosphorus (P)	IS 8811
80	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Silicon (Si)	ASTM E415
81	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Silicon (Si)	IS 8811
82	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Sulfur (S)	ASTM E1019
83	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Sulfur (S)	ASTM E415
84	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Sulfur (S)	IS 228 (Part 20)
85	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Sulfur (S)	IS 8811
86	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Tin (Sn)	ASTM E415
87	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Tin (Sn)	IS 8811
88	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Titanium (Ti)	ASTM E415
89	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Titanium (Ti)	IS 8811
90	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Tungsten (W)	ASTM E415
91	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Vanadium (V)	ASTM E415
92	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Vanadium (V)	IS 8811
93	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Zirconium (Zr)	ASTM E415
94	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Zirconium (Zr)	IS 8811

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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
95	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium (Al)	ASTM E415
96	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium (Al)	IS 8811
97	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Antimony (Sb)	ASTM E415
98	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron (B)	ASTM E415
99	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron (B)	IS 8811
100	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Calcium (Ca)	ASTM E415
101	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon (C)	ASTM E1019
102	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon (C)	ASTM E415
103	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon (C)	IS 228 (Part 20)
104	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon (C)	IS 8811
105	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon (C)	IS 8811
106	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium (Cr)	ASTM E415
107	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium (Cr)	IS 8811
108	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt (Co)	ASTM E415
109	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt (Co)	IS 8811
110	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper (Cu)	ASTM E415
111	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper (Cu)	IS 8811
112	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Hydrogen (H)	IS 228 (Part 22)
113	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead (Pb)	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
114	CHEMICAL- METALS & ALLOYS	Low alloy steel	Manganese (Mn)	ASTM E415
115	CHEMICAL- METALS & ALLOYS	Low alloy steel	Manganese (Mn)	IS 8811
116	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum (Mo)	ASTM E415
117	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum (Mo)	IS 8811
118	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel (Ni)	ASTM E415
119	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel (Ni)	IS 8811
120	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium (Nb)	ASTM E415
121	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium (Nb)	IS 8811
122	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nitrogen (N)	ASTM E1019
123	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nitrogen (N)	ASTM E415
124	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nitrogen (N)	IS 228 (Part 17)
125	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Oxygen (O)	ASTM E1019
126	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Oxygen (O)	IS 228 (Part 18)
127	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Oxygen (O)	ISO 17053
128	CHEMICAL- METALS & ALLOYS	Low alloy steel	Phosphorus (P)	ASTM E415
129	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus (P)	IS 8811
130	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Silicon (Si)	ASTM E415
131	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Silicon (Si)	IS 8811
132	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulfur (S)	ASTM E1019

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133	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulfur (S)	ASTM E415
134	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulfur (S)	IS 228 (Part 20)
135	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulfur (S)	IS 8811
136	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tin (Sn)	ASTM E415
137	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tin (Sn)	IS 8811
138	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium (Ti)	ASTM E415
139	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium (Ti)	IS 8811
140	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tungsten (W)	ASTM E415
141	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium (V)	ASTM E415
142	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium (V)	IS 8811
143	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Zirconium (Zr)	ASTM E415
144	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Zirconium (Zr)	IS 8811
145	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Bend Test	ISO 7438
146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Brinell Hardness Test 10mm / 3000 Kgf	IS 1500-1
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Brinell Hardness Test: 10mm / 3000Kgf	ISO 6506-1
148	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Brinell Hardness Test: 10mm / 3000Kgf	ASTM E10
149	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Impact Test: Charpy "V" notch (2 mm), "U" notch (2,3,5 mm) Temp (-80 °C to ambient)	ISO 148 (Part 1)

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150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Rockwell Hardness Test: Rockwell B	ASTM E18
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Rockwell Hardness Test: Rockwell B	IS 1586 (Part 1)
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Rockwell Hardness Test: Rockwell B	ISO 6508 (Part 1)
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Rockwell Hardness Test: Rockwell B	SAE J417
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Rockwell Hardness Test: Rockwell C	ASTM E 18
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Rockwell Hardness Test: Rockwell C	IS 1586 (Part 1)
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Rockwell Hardness Test: Rockwell C	ISO 6508 (Part 1)
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Rockwell Hardness Test: Rockwell C	SAE J417
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile test : Yield strength	ASTM A370
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Test: %Reduction Area	ISO 6892 (Part 1)
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile test: Tensile Strength	ASTM A370
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Test: Tensile Strength	ISO 6892 (Part 1)
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile test: %Elongation	ASTM A370
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Test: %Elongation	ASTM E8

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164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Test: %Elongation	ISO 6892 (Part 1)
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile test: %Reduction Area	ASTM A370
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Test: %Reduction Area	ASTM E8
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile test: 0.2% Proof stress	ASTM A370
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Test: 0.2%Proof Stress	ASTM E8
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Test: 0.2%Proof Stress	ISO 6892 (Part 1)
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Test: Yield strength	ASTM E8
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Test: Yield strength	ISO 6892 (Part 1)
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Test:Tensile Strength	ASTM E8
173	MECHANICAL-METALLOGRAPHY TEST	Steel	Banding	ASTM E1268
174	MECHANICAL-METALLOGRAPHY TEST	Steel	Banding: Comparison method	SEP 1520
175	MECHANICAL-METALLOGRAPHY TEST	Steel	Blue Fracture	IS 10138
176	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburization By Micrographic method	ISO 3887
177	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburization By Micrographic method	JIS G0558
178	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth Of Decarburization By Microscopic Method	IS 6396

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179	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth Of Decarburization By Microscopic Method	SAE J419
180	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth Of Decarburization By Microscopic Method: 100 X	ASTM E1077
181	MECHANICAL-METALLOGRAPHY TEST	Steel	Grain Size: 1 to 10 (Comparison Method)	ASTM E112
182	MECHANICAL-METALLOGRAPHY TEST	Steel	Grain Size: 1 to 10 (Comparison Method)	IS 4748
183	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating: (By Comparison Chart)	ASTM E45
184	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating: (By Comparison Chart)	IS 4163
185	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating: (By Comparison Chart)	ISO 4967
186	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating: (By Comparison Chart)	JIS G0555
187	MECHANICAL-METALLOGRAPHY TEST	Steel	Jominy End Quench: (Hardenability from end quench distance 1mm to 50 mm & 1/16 inch to 32/16 inch)	ASTM A255
188	MECHANICAL-METALLOGRAPHY TEST	Steel	Jominy End Quench: (Hardenability from end quench distance 1mm to 50 mm & 1/16 inch to 32/16 inch)	IS 3848
189	MECHANICAL-METALLOGRAPHY TEST	Steel	Jominy End Quench: (Hardenability from end quench distance 1mm to 50 mm & 1/16 inch to 32/16 inch)	ISO 642
190	MECHANICAL-METALLOGRAPHY TEST	Steel	Jominy End Quench: (Hardenability from end quench distance 1mm to 50 mm & 1/16 inch to 32/16 inch)	SAE J406
191	MECHANICAL-METALLOGRAPHY TEST	Steel	Macrostructural Examination (Plate I, Plate II, Plate III Comparison)	ASTM E381
192	MECHANICAL-METALLOGRAPHY TEST	Steel	Microstructural Examination	ASM Hand book volume 9-2004, ASTM E407