National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CALCUTTA METAL TESTING LABORATORY, BALITIKURI,BRAHMIN PARA,PADMA PUKUR, HOWRAH, WEST BENGAL, 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- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Iron & Steel	Uniformity of Coating	IS 2633
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Iron And Steel	Adhesion Test (Pivoted hammer Test)	IS 2629
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Iron And Steel	Mass of Zinc	IS 6745
4	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Iron and Steel	Thickness of coating	CMTL/SOP/02/34
5	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Chromium	IS 504 (Pt-8)
6	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Chromium	IS 504(Pt-8)
7	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Copper	IS 504(Pt-3)
8	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Iron	IS 504(Pt-2)
9	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Magnesium	IS 504(Pt-6)
10	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Manganese	IS 504(Pt-5)
11	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Nickel	IS 504(Pt-7)
12	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Silicon	IS 504(Pt-1)
13	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Zinc	IS 504(Pt-4)
14	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 12308(Pt-11)
15	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 12308(Pt-8)
16	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 12308(Pt-10)
17	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 12308(Pt-7)

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18	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 12308(Pt-5)
19	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 12308(Pt-6)
20	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	IS 12308(Pt-2)
21	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Aluminium	CMTL/SOP/02
22	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Copper	IS 3187
23	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Iron	IS 3187
24	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Iron	IS 3685
25	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Iron	IS 4027(Pt-8)
26	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Lead	IS 3187
27	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Manganese	IS 3187
28	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Manganese	IS 3685
29	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Nickel	IS 3187
30	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Nickel	IS 3685
31	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Phosphorus	IS 3685
32	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Phosphorus	IS 4027(Pt-3)
33	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Silicon	IS 3685
34	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Tin	IS 3685
35	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Tin	IS 4027(Pt-5)
36	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Zinc	IS 3187

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37	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Zinc	IS 3685
38	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Zinc	IS 4027(Pt-6)
39	CHEMICAL- METALS & ALLOYS	Iron & Steel	Carbon	IS 228(Pt-1)
40	CHEMICAL- METALS & ALLOYS	Iron & Steel	Chromium	IS 228(Pt-6)
41	CHEMICAL- METALS & ALLOYS	Iron & Steel	Copper	IS 228(Pt-15)
42	CHEMICAL- METALS & ALLOYS	Iron & Steel	Manganese	IS 228(Pt-2)
43	CHEMICAL- METALS & ALLOYS	Iron & Steel	Molybdenum	IS 228(Pt-7)
44	CHEMICAL- METALS & ALLOYS	Iron & Steels	Nickel	IS 228(Pt-5)
45	CHEMICAL- METALS & ALLOYS	Iron & Steels	Phosphorus	IS 228(Pt-3)
46	CHEMICAL- METALS & ALLOYS	Iron & Steels	Silicon	IS 228(Pt-8)
47	CHEMICAL- METALS & ALLOYS	Iron & Steels	Sulphur	IS 228(Pt-9)
48	CHEMICAL- METALS & ALLOYS	Iron & Steels	Vanadium	CMTL/SOP/02
49	CHEMICAL- METALS & ALLOYS	Stainless Steel, Nickel, Chromium & Iron Alloy	Carbon	IS 228(Pt-1)
50	CHEMICAL- METALS & ALLOYS	Stainless Steel, Nickel, Chromium & Iron Alloy	Chromium	IS 228(Pt-6)
51	CHEMICAL- METALS & ALLOYS	Stainless Steel, Nickel, Chromium & Iron Alloy	Copper	IS 228(Pt-15)
52	CHEMICAL- METALS & ALLOYS	Stainless Steel, Nickel, Chromium & Iron Alloy	Manganese	IS 228(Pt-2)
53	CHEMICAL- METALS & ALLOYS	Stainless Steel, Nickel, Chromium & Iron Alloy	Molybdenum	IS 228(Pt-7)
54	CHEMICAL- METALS & ALLOYS	Stainless Steel, Nickel, Chromium & Iron Alloy	Nickel	IS 228(PT-5)
55	CHEMICAL- METALS & ALLOYS	Stainless Steel, Nickel, Chromium & Iron Alloy	Phosphorus	IS 228(Pt-3)

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56	CHEMICAL- METALS & ALLOYS	Stainless Steel, Nickel, Chromium & Iron Alloy	Silicon	IS 228(Pt-8)
57	CHEMICAL- METALS & ALLOYS	Stainless Steel, Nickel, Chromium & Iron Alloy	Sulphur	IS 228(Pt-9)
58	CHEMICAL- METALS & ALLOYS	Stainless Steel, Nickel, Chromium & Iron Alloy	Vanadium	CMTL/SOP/02
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Bolts	Braking Load	IS 1367(Pt-3)
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Bolts	Braking Load	ISO 898-1
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Bolts	Proof Load Test	IS 1367(Pt: 3)
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Bolts	Proof Load test	ISO 898(PT:1)
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Bolts	Tensile Strength	IS 1608(Pt: 1)
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Bolts	Tensile Test	ASTM F606/F606M
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Bolts	Tensile Test	IS 1367(Pt: 3)
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Bolts	Tensile Test	ISO 898-1
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Fillet Welded Pipes	Macro Examination	API 1104
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	% Elongation	ASTM A193/A 193M
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	% Elongation	ASTM A370

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70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	% Elongation	IS 1608(Pt: 1)
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	% Elongation	ISO 6892
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	% Reduction Area	ASTM A193/A193M
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	% Reduction Area	ASTM A370
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	% Reduction Area	IS 1608(Pt:1)
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	% Reduction Area	ISO 6892-1
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	0.2% Proof Stress	ASTM A193/ A 193M
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	0.2% Proof Stress	ASTM A370
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	0.2% Proof Stress	IS 1608(Pt: 1)
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	0.2% Proof Stress	ISO: 6892-1
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	0.5% Proof Stress	ASTM A193/A 193M
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	0.5% Proof Stress	ASTM A370
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	0.5% Proof Stress	IS 1608(Pt-1)
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	0.5% Proof Stress	ISO 6892-1

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84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Bend Test (Rectangular and Round)	ASTM A370
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Bend Test (Rectangular and Round)	IS 1599
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Breaking Load Test	ASTM A193/A 193M
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Breaking Load Test	ASTM A370
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Breaking Load Test	IS 1608(Pt-1)
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Breaking Load Test	ISO 6892-1
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Brinell Hardness	IS 1500(Pt-1)
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Brinell Hardness Test	ASTM A370
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Charpy Impact Test [(- 40°C) to 50°C]	ASTM A370
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Charpy Impact Test [(- 40°C) to 50°C] "U" Notch	IS 1499
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Charpy Impact Test [(- 40°C) to 50°C] "U" Notch	IS 1757 (Pt-1)
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Charpy Impact Test [(- 40°C) to 50°C] "V" Notch	IS 1757(Pt-1)
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Izod Impact Test	IS 1598
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Rockwell Hardness Test (Scale - C)	ASTM A370

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98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Rockwell Hardness Test (Scale-B)	ASTM A 370
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Rockwell Hardness Test (Scale-B)	IS 1586(Pt: 1)
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Rockwell Hardness Test (Scale-C)	IS 1586(Pt: 1)
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Tensile Strength	ASTM A 370
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Tensile Strength	ASTM A193/A 193M
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Tensile Strength	IS 1608(Pt:1)
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Tensile Strength	ISO 6892-1
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Yield Stress	ASTM A 193/A 193M
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Yield Stress	ASTM A 370
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Yield Stress	IS 1608(Pt: 1)
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Yield Stress	ISO 6892-1
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals(TUBE)	Bend Test(Strip)	IS 3601
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals(TUBE)	Flattening Test	IS 2328
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Nuts	Proof Load Test	ASTM A194/ A 194M

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112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Nuts	Proof Load Test	IS 1367(Pt:6)
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Nuts	Proof Load Test	ISO 898-2
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Pipe	Bend Test (Root/Face/Side)	API 1104
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Pipe	Nick Break	API 1104
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Pipe	Tensile Test	API 1104
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate /Pipe	Tensile Test	ASME Sec IX
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate /Pipe	Tensile Test	IS 2825
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate /Pipe	Tensile Test	IS 7307(Pt: 1)
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate /Pipe	Tensile Test	IS 7310(Pt-1)
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate /Pipe	Tensile Test	IS 7318(Pt-1)
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate /Pipe	Tensile Test	IS 7318(Pt-2)
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate/Pipes	Bend Test (Face/Root/Side)	ASME Sec IX
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate/Pipes	Bend Test (Face/Root/Side)	IS 2825
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate/Pipes	Bend Test (Face/Root/Side)	IS 7307 (Pt 1)

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126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate/Pipes	Bend Test (Face/Root/Side)	IS 7310 (Pt 1)
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate/Pipes	Fracture Test	ASME Sec IX
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate/Pipes	Fracture Test	IS 7307 (Pt 1)
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate/Pipes	Fracture Test	IS 7310 (Pt 1)
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate/Pipes	Macro Examination	ASME Sec IX
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate/Pipes	Macro Examination	IS 7307(Pt 1)
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate/Pipes	Macro Examination	IS 7310 (Pt 1)
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate/Pipes	Nick Break	ASME Sec Ix
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate/Pipes	Nick Break	IS 7307(Pt 1)
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Welded Plate/Pipes	Nick Break	IS 7310 (Pt 1)
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bar	Re-bend Test	IS 1786
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bar	Tensile Test	IS 1786
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bar	Weight per Meter	IS 1786
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Fillet Welded Pipe	Macro Examination	API 1104

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140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	%Elongation	ASTM A370
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	%Elongation	IS 1608(Pt-1)
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	%Reduction Area	ASTM A370
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	%Reduction Area	IS 1608(Pt-1)
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	%Reduction Area	ISO 6892-1
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	0.2% Proof Stress	ASTM A370
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	0.2% Proof Stress	IS 1608(Pt-1)
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	0.2% Proof Stress	ISO 6892-1
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	0.5% Proof Stress	ASTM A370
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	0.5% Proof Stress	IS 1608(Pt-1)
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	0.5% Proof Stress	ISO 6892-1
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	Bend Test (Rectangular and Round)	ASTM A370
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	Bend Test (Rectangular and Round)	IS 1599
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	Breaking Load Test	ASTM A370

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154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	Breaking Load Test	IS 1608(Pt-1)
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	Breaking Load Test	ISO 6892-1
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	Brinell Hardness Test	IS 1500(Pt-1)
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	Rockwell Hardness Test(Scale-B)	IS 1586(Pt-1)
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	Tensile Strength	ASTM A370
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	Tensile Strength	IS 1608(PT-1)
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	Tensile Strength	ISO 6892-1
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	Yield Stress	ASTM A 370
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	Yield Stress	IS 1608(Pt-1)
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals	Yield Stress	ISO 6892-1
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals (TUBE)	Flattening Test	IS 2328
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Welded Pipe	Bend Test(Root/Face/Side)	API 1104
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Welded Pipe	Nick Break	API 1104
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Welded Pipe	Tensile Test	API 1104

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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
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Welded Plate/Pipe	Tensile Test	ASME Sec IX
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Welded Plate/Pipes	Bend Test (Face/Root/Side)	ASME Sec IX
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PRODUCTS	Macro Examination	IS 13015
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought Steel Products	Macro Examination	IS 11371
172	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metal and Alloys	Determination of Non-metallic Inclusions	IS 4163
173	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metal and Alloys	Microstructure of Graphite in Iron Castings	ASTM A247
174	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metal and Alloys	Microstructure of Graphite of Cast Iron	IS 7754
175	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous and Ferrous Metals and Alloys	Macro Structural Test	IS 11371
176	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous and Ferrous Metals and Alloys	Macro Structural Test	IS 13015
177	NON-DESTRUCTIVE-METALS & ALLOYS	Casting Ferritic Steel	Ultrasonic Test	ASTM A 609/609M
178	NON-DESTRUCTIVE-METALS & ALLOYS	Casting Ferrtic Steel	Ultrasonic Test	IS 7666
179	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing for Sub- Surface Flaws	ASME Sec V, Article 7
180	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing for Sub-Surface Flaws	ASTM E709
181	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non-Ferrous Metals	Liquid Penetrant Testing	ASME Sec V, Article 6
182	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non-Ferrous Metals	Liquid Penetrant Testing	ASTM E165
183	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Non-Ferrous Metals	Liquid Penetrant Testing	IS 3685
184	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrtic Steel Forging & Rolled	Ultrasonic Test	ASTM A388/388M

SCOPE OF ACCREDITATION

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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
185	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrtic Steel Forging & Rolled	Ultrasonic Test	IS 8791
186	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrtic Steel Plates	Ultrasonic Test	ASTM A435/435M
187	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrtic Steel Plates	Ultrasonic Test	ASTM A578/578M
188	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrtic Steel Plates	Ultrasonic Test	IS 4225
189	NON-DESTRUCTIVE-METALS & ALLOYS	Plate, Pipe, Forging, Casting	Ultrasonic Thickness Measurement by pulse echo contact method	ASTM E797/SE797
190	NON-DESTRUCTIVE-METALS & ALLOYS	Structural Welding	Ultrasonic Test	AWS D1.1(Clause 6,Part F)
191	NON-DESTRUCTIVE-METALS & ALLOYS	Welding In Ferric Steel	Ultrasonic Testing	IS 4260
192	NON-DESTRUCTIVE-METALS & ALLOYS	Welding in Ferritic Steel	Ultrasonic Test	ASME Sec V, Article 4
193	NON-DESTRUCTIVE-METALS & ALLOYS	Welding in Ferritic Steel	Ultrasonic Test	ASME Sec VIII, Appendix 12, UW-53

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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
Site Facility				
1	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Iron and Steel	Thickness of coating	CMTL/SOP/02/34
2	NON-DESTRUCTIVE-METALS & ALLOYS	Casting Ferritic Steel	Ultrasonic Test	ASTM A 609/609M
3	NON-DESTRUCTIVE-METALS & ALLOYS	Casting Ferrtic Steel	Ultrasonic Test	IS 7666
4	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing for Sub- Surface Flaws	ASME Sec V, Article 7
5	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing for Sub-Surface Flaws	ASTM E709
6	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non-Ferrous Metals	Liquid Penetrant Testing	ASME Sec V, Article 6
7	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non-Ferrous Metals	Liquid Penetrant Testing	ASTM E165
8	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Non-Ferrous Metals	Liquid Penetrant Testing	IS 3685
9	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrtic Steel Forging & Rolled	Ultrasonic Test	ASTM A388/388M
10	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrtic Steel Forging & Rolled	Ultrasonic Test	IS 8791
11	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrtic Steel Plates	Ultrasonic Test	ASTM A435/435M
12	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrtic Steel Plates	Ultrasonic Test	ASTM A578/578M
13	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrtic Steel Plates	Ultrasonic Test	IS 4225
14	NON-DESTRUCTIVE-METALS & ALLOYS	Plate, Pipe, Forging, Casting	Ultrasonic Thickness Measurement by pulse echo contact method	ASTM E797/SE797
15	NON-DESTRUCTIVE-METALS & ALLOYS	Structural Welding	Ultrasonic Test	AWS D1.1(Clause 6,Part F)
16	NON-DESTRUCTIVE-METALS & ALLOYS	Welding In Ferric Steel	Ultrasonic Testing	IS 4260
17	NON-DESTRUCTIVE-METALS & ALLOYS	Welding in Ferritic Steel	Ultrasonic Test	ASME Sec V, Article 4

National Accreditation Board for Testing and Calibration Laboratories

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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
18	NON-DESTRUCTIVE-METALS & ALLOYS	Welding in Ferritic Steel	Ultrasonic Test	ASME Sec VIII, Appendix 12, UW-53