National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : V-CHEM METAL TESTING LABORATORY, PLOT NO. 16, FLAT NO 1 TO 5, NEELAM APARTMENT, AMBAD-DGP NAGAR ROAD, MATERIAL GATE, AMBAD, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- CORROSION TESTS	Salt spray Test	Copper Accelerated Acetic Acid Salt spray (CASS) Test	IS 5528
2	CHEMICAL- CORROSION TESTS	Salt Spray Test	Neutral Salt Spray Test	ASTM B 117
3	CHEMICAL- METALS & ALLOYS	Alloy steel	Molybdenum	ASTM E1916
4	CHEMICAL- METALS & ALLOYS	Alloy steel	Manganese	ASTM E1916
5	CHEMICAL- METALS & ALLOYS	Alloy steel	Chromium	ASTM E 1916
6	CHEMICAL- METALS & ALLOYS	Alloy steel	Nickel	ASTM E1916
7	CHEMICAL- METALS & ALLOYS	Alloy steel	Cobalt	ASTM E1916
8	CHEMICAL- METALS & ALLOYS	Alloy steel	Copper	ASTM E1916
9	CHEMICAL- METALS & ALLOYS	Alloy steel	Titanium	ASTM E1916
10	CHEMICAL- METALS & ALLOYS	Alloy steel	Tungsten	ASTM E1916
11	CHEMICAL- METALS & ALLOYS	Alloy steel	Vanadium	ASTM E1916
12	CHEMICAL- METALS & ALLOYS	Aluminium base alloy	Tin	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium base alloy	Tin	IS11035
14	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Chromium	ASTM E 1251
15	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Chromium	IS 11035
16	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Copper	IS 11035
17	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Iron	ASTM E 1251
18	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Iron	IS 11035

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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	Aluminium Base Alloys	Lead	ASTME1251
20	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Magnesium	ASTM E 1251
21	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Magnesium	IS 11035
22	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Manganese	ASTM E 1251
23	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Manganese	IS 11035
24	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Nickel	ASTM E 1251
25	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Silicon	ASTM E 1251
26	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Silicon	IS 11035
27	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Strontium	ASTM E 1251
28	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Titanium	ASTM E 1251
29	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Titanium	IS 11035
30	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Vanadium	ASTM E 1251
31	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Vanadium	IS 11035
32	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Zinc	ASTM E 1251
33	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloys	Zinc	IS 11035
34	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	JIS G 1253
35	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	JIS G 1253
36	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	JIS G 1253
37	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	JIS G 1253

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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	Cast Iron	Molybdenum	JIS G 1253
39	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	JIS G 1253
40	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	JIS g 1253
41	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	JIS G 1253
42	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	JIS G 1253
43	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Aluminium	BS EN 15079
44	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Antimony	BS EN 15079
45	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Arsenic	BS EN 15079
46	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Bismuth	BS EN 15079
47	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Cadmium	BS EN 15079
48	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Chromium	BS EN 15079
49	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Cobalt	BS EN 15079
50	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Iron	BS EN 15079
51	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Lead	BS EN 15079
52	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Magnesium	BS EN 15079
53	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Manganese	BS EN 15079
54	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Nickel	BS EN 15079
55	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Phosphorus	BS EN 15079
56	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Silicon	BS EN 15079

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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
57	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Sulphur	BS EN 15079
58	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Tellurium	BS EN 15079
59	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Tin	BS EN 15079
60	CHEMICAL- METALS & ALLOYS	Copper Base Alloys	Zinc	BS EN 15079
61	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Aluminium	IS 9879
62	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Aluminium	JIS G 1253
63	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Boron	JIS G 1253
64	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Carbon	ASTM E 1086
65	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Carbon	IS 9879
66	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Carbon	JIS G 1253
67	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Chromium	ASTM E 1086
68	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Chromium	JIS G 1253
69	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Cobalt	JIS G 1253
70	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Copper	ASTM E 1086
71	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Copper	IS 9879
72	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Copper	JIS G 1253
73	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Manganese	ASTM E 1086
74	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Manganese	IS 9879
75	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Manganese	JIS G 1253

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76	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Molybdenium	IS 9879
77	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Molybdenum	ASTM E 1086
78	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Molybdenum	JIS G 1253
79	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Nickel	ASTM E 1086
80	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Nickel	IS 9879
81	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Nickel	JIS G 1253
82	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Niobium	JIS G 1253
83	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Nitrogen	JIS G 1253
84	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Phosphorus	ASTM E 1086
85	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Phosphorus	IS 9879
86	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Phosphorus	JIS G 1253
87	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Silicon	ASTM E 1086
88	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Silicon	IS 9879
89	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Silicon	JIS G 1253
90	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Sulphur	ASTM E 1086
91	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Sulphur	IS 9879
92	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Sulphur	JIS G 1253
93	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Titanium	JIS G 1253
94	CHEMICAL- METALS & ALLOYS	Cr - Ni Steel	Vanadium	JIS G 1253

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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	High Speed Tool Steel	Carbon	JIS G 1253
96	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Chromium	JIS G 1253
97	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Cobalt	JIS G 1253
98	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Copper	JIS G 1253
99	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Manganese	JIS G 1253
100	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Molybdenum	JIS G 1253
101	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Phosphorus	JIS G 1253
102	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Silicon	JIS G 1253
103	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Sulphur	JIS G 1253
104	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Tungston	JIS G 1253
105	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Vanadium	JIS G 1253
106	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium	ASTM E 415
107	CHEMICAL- METALS & ALLOYS	Low alloy Steel	Aluminium	IS 8811
108	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium	JIS G 1253
109	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Arsenic	ASTM E 415
110	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Arsenic	IS 8811
111	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Arsenic	JIS G 1253
112	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron	ASTM E 415
113	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron	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
114	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron	JIS G 1253
115	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Calcium	JIS G 1253
116	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	ASTM E 415
117	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 8811
118	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	JIS G 1253
119	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	ASTM E 415
120	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 8811
121	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	JIS G 1253
122	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	ASTM E 415
123	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	IS 8811
124	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	JIS G 1253
125	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead	ASTM E 415
126	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead	IS 8811
127	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead	JIS G 1253
128	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	ASTM E 415
129	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 8811
130	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	JIS G 1253
131	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	ASTM E 415
132	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	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
133	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	JIS G 1253
134	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	ASTM E 415
135	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	IS 8811
136	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	JIS G 1253
137	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium	ASTM E 415
138	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium	IS 8811
139	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium	JIS G 1253
140	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nitrogen	ASTM E415
141	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nitrogen	JIS G1253
142	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	ASTM E 415
143	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	IS 8811
144	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	JIS G 1253
145	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E 415
146	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 8811
147	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	JIS G 1253
148	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	ASTM E 415
149	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	IS 8811
150	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	JIS G 1253
151	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tin	ASTM E 415

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152	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tin	IS 8811
153	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tin	JIS G 1253
154	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	ASTM E 415
155	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	IS 8811
156	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	JIS G 1253
157	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tungston	JIS G 1253
158	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	ASTM E 415
159	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	IS 8811
160	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	JIS G 1253
161	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Zirconium	ASTM E 415
162	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Zirconium	JIS G 1253
163	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous material, alloy & products	Tensile Strength(Upto 5 kN)	IS 1608(Part 1)
164	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Bend Test	IS 1599 ;RA2019
165	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Brinell Hardness test with HBW 2.5 / 187.5 Kg	IS 1500 Part 1
166	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Crushing test	IS 3074
167	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Flattening Test	IS 2328
168	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Micro Vickers Hardness Test at Load 0.1 Kg	IS 1501 Part 1

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169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Proof Load Test on Bolts, Screws, Studs with up to 600 kN Load Least Count 0.06 KN	IS 1367 Part 3
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Proof Load Test on Nuts with up to 600 kN Load Least Count 0.06 KN	IS 1367 Part 6
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Proof Load Test on Nuts with upto 600 kN Least Count 0.06 KN	IS 1367 Part 3
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Rockwell Hardness Test - Type A - HRA	IS 1586 Part 1
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Rockwell Hardness Test - Type B - HRBW	IS 1586 Part 1
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Rockwell Hardness Test - Type C - HRC	IS 1586 Part 1
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Ultimate Tensile Strength up to 200 kN Load LC 0.01 kN	IS 1608 Pt.1
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Ultimate Tensile Strength up to 600 kN Load LC 0.06 kN	IS 1608 Pt.1
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Vickers Hardness Test at Load 5.00 Kg	IS 1501 Part 1
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys & prodcts	Micro Vickers Hardness Test at Load 1.00 Kg	IS:1501 Pt.1
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys & products	% Elongation	IS:1608 Pt.1
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys & products	% Elongation	IS;1608 Pt.1
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys & products	% Reduction in Area	IS:1608 Pt.1
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous materials , alloys & products	% Reduction in Area	IS:1608 Pt.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
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys & products	0.2% Proof stress up to 200 kN Load LC 0.01 kN	IS:1608 Pt.1
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous materials , alloys & products	0.2% Proof stress up to 600 kN Load LC 0.06 kN	IS:1608 Pt.1
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys & products	Brinell Hardness test with HBW 5 / 250	IS:1500 Pt.1
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys & products	Micro Vickers Hardness Test at Load 0.2 Kg	IS:1501 Pt.1
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys & products	Micro Vickers Hardness Test at Load 0.3 Kg	IS:1501 Pt.1
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous materials , alloys & products	Micro Vickers Hardness Test at Load 0.5 Kg	IS:1501 Pt.1
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys & products	Vickers Hardness Test at Load 10.00 Kg	IS:1501 Pt.1
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys & products	Vickers Hardness Test at Load 30.00 Kg	IS:1501 Pt.1
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys & products	Yield Strength up to 200 kN Load LC 0.01 kN	IS:1608 Pt.1
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys & products	Yield Strength up to 600 kN Load LC 0.06 kN	IS:1608 Pt.1
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic coatings	Determination of Mass of Zinc Coating on parts / articles.	IS 6745
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals,alloys & products	Rockwell Hardness Test - Type C - HRC	IS 1586 Part 1
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals,alloys & products	Bend Test up to Load 600 kN	IS 1599
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals,alloys & products	Rockwell Hardness Test - Type A - HRA	IS 1586 Part 1

SCOPE OF ACCREDITATION

Laboratory Name : V-CHEM METAL TESTING LABORATORY, PLOT NO. 16, FLAT NO 1 TO 5, NEELAM APARTMENT, AMBAD-DGP NAGAR ROAD, MATERIAL GATE, AMBAD, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6288 **Page No** 12 of 12

Validity 08/10/2022 to 07/10/2024 **Last Amended on** 30/05/2023

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
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals,alloys & products	Rockwell Hardness Test - Type B - HRBW	IS 1586 Part 1
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld & Welded test specimens	Bend Test for Root bend , Face bend , Side bend with 90 & 180 degrees up to 600 kN load LC 0.06 kN	ASME SEC IX
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld & Welded test specimens	Ultimate Tensile Strength, up to 600 kN with LC 0.06 KN.	ASME SEC IX
200	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials & its alloys	Micro structure Analysis	ASM Handbook Vol. 9
201	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Average Grain Size Measurement by comparison	IS 4748
202	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Average Grain size measurement by comparison method	ASTM E 112
203	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Case Depth measurement by Microscopic and Hardness method	IS 6416
204	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Decarburisation Depth in Steel by microscopic method	IS 6396
205	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Grain Flow Measurement of Forgings	IS 11371
206	MECHANICAL-METALLOGRAPHY TEST	Weld & Welded test specimens	Macro Etch test of wrought steel Products and Weld	ASME SEC IX
207	MECHANICAL-METALLOGRAPHY TEST	Weld & Welded test specimens	Weld Penetration measurement of Throat, Leg Length, Porosity, Weld fusion, Weld Gap, Weld Crack, Concavity, Convexity & Macro test	IS 3600 Part 9