National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : C. G. METAL LAB, 51, SHIVAM ESTATE, PHASE-II, GANDHINAGAR, 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	Alloy Steel	Aluminium	ASTM E 415
2	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminium	IS 8811
3	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminum	JIS G 1253
4	CHEMICAL- METALS & ALLOYS	Alloy Steel	Antimony	ASTM E 415
5	CHEMICAL- METALS & ALLOYS	Alloy Steel	Antimony	IS 8811
6	CHEMICAL- METALS & ALLOYS	Alloy Steel	Antimony	JIS G 1253
7	CHEMICAL- METALS & ALLOYS	Alloy Steel	Arsenic	ASTM E 415
8	CHEMICAL- METALS & ALLOYS	Alloy Steel	Arsenic	IS 8811
9	CHEMICAL- METALS & ALLOYS	Alloy Steel	Arsenic	JIS G 1253
10	CHEMICAL- METALS & ALLOYS	Alloy Steel	Boron	ASTM E 415
11	CHEMICAL- METALS & ALLOYS	Alloy Steel	Boron	IS 8811
12	CHEMICAL- METALS & ALLOYS	Alloy Steel	Boron	JIS G 1253
13	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	ASTM E 415
14	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	IS 8811
15	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	JIS G 1253
16	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	ASTM E 415
17	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	IS 8811
18	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	JIS G 1253

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19	CHEMICAL- METALS & ALLOYS	Alloy Steel	Cobalt	ASTM E 415
20	CHEMICAL- METALS & ALLOYS	Alloy Steel	Cobalt	IS 8811
21	CHEMICAL- METALS & ALLOYS	Alloy Steel	Cobalt	JIS G 1253
22	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	ASTM E 415
23	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	IS 8811
24	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	JIS G 1253
25	CHEMICAL- METALS & ALLOYS	Alloy Steel	Lead	ASTM E 415
26	CHEMICAL- METALS & ALLOYS	Alloy Steel	Lead	IS 8811
27	CHEMICAL- METALS & ALLOYS	Alloy Steel	Lead	JIS G 1253
28	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	ASTM E 415
29	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	IS 8811
30	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	JIS G 1253
31	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	ASTM E 415
32	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	IS 8811
33	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	JIS G 1253
34	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickle	ASTM E 415
35	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickle	IS 8811
36	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickle	JIS G 1253
37	CHEMICAL- METALS & ALLOYS	Alloy Steel	Niobium	ASTM E 415

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38	CHEMICAL- METALS & ALLOYS	Alloy Steel	Niobium	IS 8811
39	CHEMICAL- METALS & ALLOYS	Alloy Steel	Niobium	JIS G 1253
40	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorus	ASTM E 415
41	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorus	IS 8811
42	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorus	JIS G 1253
43	CHEMICAL- METALS & ALLOYS	Alloy Steel	Silicon	ASTM E 415
44	CHEMICAL- METALS & ALLOYS	Alloy Steel	Silicon	IS 8811
45	CHEMICAL- METALS & ALLOYS	Alloy Steel	Silicon	JIS G 1253
46	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulfur	ASTM E 415
47	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulfur	IS 8811
48	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulfur	JIS G 1253
49	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tin	ASTM E 415
50	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tin	IS 8811
51	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tin	JIS G 1253
52	CHEMICAL- METALS & ALLOYS	Alloy Steel	Titanium	ASTM E 415
53	CHEMICAL- METALS & ALLOYS	Alloy Steel	Titanium	IS 8811
54	CHEMICAL- METALS & ALLOYS	Alloy Steel	Titanium	JIS G 1253
55	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tungsten	ASTM E 415
56	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tungsten	IS 8811

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57	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tungsten	JIS G 1253
58	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	ASTM E 415
59	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	IS 8811
60	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	JIS G 1253
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1086
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E 1086
65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E 1086
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E 1086
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	ASTM E 1086
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	ASTM E 1086
69	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086
70	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 1086
71	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	ASTM E 1086
72	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	ASTM E 1086
73	CHEMICAL- METALS & ALLOYS	Stainless steel	Tungsten	ASTM E 1086
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals & Its alloys (Tube / Pipe)	Flattening	ASTM A/SA 370

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75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals & Its alloys (Tube / Pipe)	Flattening	ASTM A/SA 450
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals & Its alloys (Tube / Pipe)	Flattening	IS 2328
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals & Its alloys (Tube / Pipe)	Flattening	ISO 8492
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Bend Test (Mandrel: 8, 12, 16, 20, 24, 32, 40, 44, 70, 100 in mm)	API 1104
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Bend Test (Mandrel: 8, 12, 16, 20, 24, 32, 40, 44, 70, 100 in mm)	ASME SA IX
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Bend Test (Mandrel: 8, 12, 16, 20, 24, 32, 40, 44, 70, 100 in mm)	ASTM A 370
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Bend Test (Mandrel: 8, 12, 16, 20, 24, 32, 40, 44, 70, 100 in mm)	ASTM E 190
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Bend Test (Mandrel: 8, 12, 16, 20, 24, 32, 40, 44, 70, 100 in mm)	ASTM E 290
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Bend Test (Mandrel: 8, 12, 16, 20, 24, 32, 40, 44, 70, 100 in mm)	BS EN ISO 5173
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Bend Test (Mandrel: 8, 12, 16, 20, 24, 32, 40, 44, 70, 100 in mm)	BS EN ISO 7438
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Bend Test (Mandrel: 8, 12, 16, 20, 24, 32, 40, 44, 70, 100 in mm)	IS 1599
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Brinell Hardness	BS EN ISO 6506-1
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Brinell Hardness	IS 1500-1
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Elongation	ASTM E 8/8M

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89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Elongation	IS 1608-1
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Elongation	ISO 6892-1
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Flaring / Drift Expansion	ASTM A 370
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Flaring / Drift Expansion	ASTM A/SA 450
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Flaring / Drift Expansion	IS 2335
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Flaring / Drift Expansion	ISO 8493
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Hardness	ASTM A 370
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Hardness	ASTM A 370
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Hardness	ASTM E 18
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Hardness	ASTM E 18
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Hardness	BS EN ISO 6508-1
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Hardness	BS EN ISO 6508-1
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Hardness Test	IS 1586 part1
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Hardness Test	IS 1586 part1

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103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Proof Load	ASTM A/SA 370
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Reduction in Area	ASTM E 8/8M
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Reduction in Area	BS EN ISO 5173
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Reduction in Area	IS 1608-1
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Reduction in Area	ISO 6892-1
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Tensile Strength	API 1104
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Tensile Strength	ASME SA IX
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Tensile Strength	ASTM E 8/8M
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Tensile Strength	IS 1608-1
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Tensile Strength	ISO 6892-1
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Yield Strength / Proof Stress (0.1% to 1.0%)	ASTM E 8/8M
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Yield Strength / Proof Stress (0.1% to 1.0%)	IS 1608-1
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys (Tube / Pipes)	Yield Strength / Proof Stress (0.1% to 1.0%)	ISO 6892-1
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals and alloys	Brinell Hardness	BS EN 6506-1

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117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals and alloys	Vickers Hardness	IS 1501-1
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals and alloys	Vickers Hardness	ISO 6507-1
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Elongation	ASTM A370
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Flange Test	ASTM A 370
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Reduction in Area	ASTM A 370
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Tensile Strength	ASTM A370
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Yield Strength / Proof Stress (0.1% to 1.0%)	ASTM A 370
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material (CS & SS Nuts)	Proof Load	ASTM A/SA 194
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material (CS & SS Nuts)	Proof Load	IS 1367 (Part-6)
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material (CS, MS, SS.)	Impact Testing	ASTM E 23
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material (CS, MS, SS.)	Impact Testing	ISO 148-1
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material (Galvanised Wires, sheets)	Mass of Zinc Coating	IS 6745
129	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Inclusion or Second-Phase Constituent Content	ASTM E 1245
130	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Intergranular Corrosion Test : Method A	ASTM G 28

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131	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Macro Structure Examination	ASME SA IX
132	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Macro Structure Examination	ASTM E 340
133	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Macro Structure Examination	ASTM E 381
134	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Macro Structure Examination	BS EN ISO 17639
135	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Pitting and crevice Corrosion test : Method A	ASTM G 48
136	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Volume Fraction by manual point count	ASTM E 562
137	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Duplex Stainless Steel Tubes, Pipes, Bars.)	Determenation of Intermetallic phase is Duplex Stainless sterl Test Method A	ASTM A 923
138	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Duplex Stainless Steel Tubes, Pipes, Bars.)	Determination of Intermetallic phase in Duplex Stainless steel : Method C	ASTM A 923
139	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (SS, MS, CS, Tubes, Pipes, Sheets, Plates, casting test piece, Bars etc)	Grain Size Measurement	ASTM E 112
140	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (SS, MS, CS, Tubes, Pipes, Sheets, Plates, casting test piece, Bars etc)	Grain Size Measurement	IS 4748
141	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (SS, MS, CS, Tubes, Pipes, Sheets, Plates, casting test piece, Bars etc)	Micro-structure Examination	ASTM E 407
142	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (SS, MS, CS, Tubes, Pipes, Sheets, Plates, casting test piece, Bars etc)	Micro-structure Examination	EN 287-1
143	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (SS, MS, CS, Tubes, Pipes, Sheets, Plates, casting test piece, Bars.)	Micro-structure Examination	ASM Vol. 9
144	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless steel tubes, pipes, sheet, plates, casting test piece, bars.)	IGC Method A	ISO 3651-2
145	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless steel tubes, pipes, sheet, plates, casting test piece, bars.)	IGC Method B	ISO 3651-2
146	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless steel tubes, pipes, sheet, plates, casting test piece, bars.)	IGC Method C	ISO 3651-2
147	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless steel tubes, pipes, sheet, plates, casting test piece, bars.)	IGC Practice A	ASTM A 262
148	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless steel tubes, pipes, sheet, plates, casting test piece, bars.)	IGC Practice B	ASTM A 262

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149	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless steel tubes, pipes, sheet, plates, casting test piece, bars.)	IGC Practice C	ASTM A 262
150	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless steel tubes, pipes, sheet, plates, casting test piece, bars.)	IGC Practice E	ASTM A 262