National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VIRTUE META-SOL, SHOP NO 6&7, SMR VINAY CAPITOL,BALANAGAR, HYDERABAD, MEDCHAL MALKAJGIRI, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 12/10/2022 to 11/10/2024 **Last Amended on** 10/01/2023

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
Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium alloys	Chromium as Cr	ASTM E1251
2	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium alloys	Copper as Cu	ASTM E1251
3	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium alloys	Iron as Fe	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium alloys	Magnesium as Mg	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium alloys	Manganese as Mn	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium alloys	Nickel as Ni	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium alloys	Silicon as Si	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium alloys	Tin as Sn	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium alloys	Titanium as Ti	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium alloys	Zinc as Zn	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Aluminium as Al	ASTM E415
12	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Aluminium as Al	IS 8811
13	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Carbon as C	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Carbon as C	IS 8811
15	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Chromium as Cr	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Chromium as Cr	IS 8811
17	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Copper as Cu	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Copper as Cu	IS 8811

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19	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Manganese as Mn	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Manganese as Mn	IS 8811
21	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Molybdenum as Mo	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Molybdenum as Mo	IS 8811
23	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Nickel as Ni	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Nickel as Ni	IS 8811
25	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Phosphorus as P	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Phosphorus as P	IS 8811
27	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Silicon as Si	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Silicon as Si	IS 8811
29	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Sulphur as S	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Sulphur as S	IS 8811
31	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Vanadium as V	ASTM E415
32	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon, High Carbon)	Vanadium as V	IS 8811
33	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon as C	ASTM E1999
34	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon as C	IS 15338
35	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium as Cr	ASTM E1999
36	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium as Cr	IS 15338
37	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper as Cu	ASTM E1999

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38	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper as Cu	IS 15338
39	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese as Mn	ASTM E1999
40	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese as Mn	IS 15338
41	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum as Mo	ASTM E1999
42	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum as Mo	IS 15338
43	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel as Ni	ASTM E1999
44	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel as Ni	IS 15338
45	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus as P	ASTM E1999
46	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus as P	IS 15338
47	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon as Si	ASTM E1999
48	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon as Si	IS 15338
49	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur as S	ASTM E1999
50	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur as S	IS 15338
51	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium as V	ASTM E1999
52	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium as V	IS 15338
53	CHEMICAL- METALS & ALLOYS	Copper and Copper alloys	Iron as Fe	BS EN 15079
54	CHEMICAL- METALS & ALLOYS	Copper and Copper alloys	Manganese as Mn	BS EN 15079
55	CHEMICAL- METALS & ALLOYS	Copper and Copper alloys	Nickel as Ni	BS EN 15079
56	CHEMICAL- METALS & ALLOYS	Copper and Copper alloys	Phosphorus as P	BS EN 15079

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57	CHEMICAL- METALS & ALLOYS	Copper and Copper alloys	Silicon as Si	BS EN 15079
58	CHEMICAL- METALS & ALLOYS	Copper and Copper alloys	Tin as Sn	BS EN 15079
59	CHEMICAL- METALS & ALLOYS	Copper and Copper alloys	Zinc as Zn	BS EN 15079
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon as C	IS 9879
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium as Cr	IS 9879
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper as Cu	IS 9879
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese as Mn	IS 9879
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum as Mo	IS 9879
65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel as Ni	IS 9879
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus as P	IS 9879
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon as Si	IS 9879
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur as S	IS 9879
69	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Vicker's Hardness (Loads: 1,5,10,20,30,50 kg)	IS 1501 (Part-1)
70	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	0.2% Proof stress	ASTM A370
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	0.2% Proof stress	IS 1608 (Part-1)
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	0.2% Proof stress	ISO 6892(Part-1)
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	ASTM E290

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74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	IS 1599
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness (HBW 5/250)	ASTM E10
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness (HBW 5/250)	IS 1500(Part-1)
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elongation	ASTM A370
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elongation	IS 1608 (Part-1)
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elongation	ISO 6892(Part-1)
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Maximum Force	ASTM A370
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Maximum Force	ASTM E8/E8M
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Maximum Force in Tension mode	IS 1608 (Part-1)
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Maximum Force in Tension mode	ISO 6892 (Part-1)
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reduction of Area	ASTM A370
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reduction of Area	ASTM E8/E8M
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reduction of Area	IS 1608(Part-1)
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reduction of Area	ISO 6892(Part-1)

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88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRB)	IS 1586(Part-1)
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRC)	IS 1586(Part-1)
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Shear Load (Mandrel Size Dia 5,8,12,16,20mm)	IS 5242
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Shear Strength (Mandrel Size Dia 5,8,12,16,20mm)	IS 5242
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Strength	ASTM A370
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Strength	ASTM E8/E8M
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Strength	IS 1608 (Part-1)
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Strength	ISO 6892(Part-1)
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strengh	ASTM A370
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strength	ASTM E8/E8M
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strength	IS 1608 (Part-1)
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strength	ISO 6892 (Part-1)
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products(Metallic materials – Tubes ,Carbon and Alloy steel Pipes)	Flattening Test	ASTM A370
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products(Metallic materials – Tubes ,Carbon and Alloy steel Pipes)	Flattening Test	ASTM A530/530M

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102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products(Metallic materials – Tubes ,Carbon and Alloy steel Pipes)	Flattening Test	IS 2328
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products(Metallic materials – Tubes ,Carbon and Alloy steel Pipes)	Flattening Test	ISO 8492
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fillet Weld Specimen	Fracture Test	AWS D1.1
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fillet Weld Test Specimens	Fracture Test	ASME SEC IX
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fillet Weld Test Specimens	Fracture Test	IBR 1950
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel Bars	0.2% Proof stress	IS 1608 (Part-1)
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel Bars	Elongation	IS 1608 (Part-1)
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel Bars	Mass per Meter	IS 1786
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel Bars	Tensile Strength	IS 1608 (Part-1)
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel Bars	Yield Strength	IS 1608 (Part-1)
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HSD Bar	Rebend Test	IS 1786
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non- Ferrous materials, alloys & products	Brinell Hardness (HBW 5/250)	ASTM E10
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non- Ferrous materials, alloys & products	Brinell Hardness (HBW 5/250)	IS 1500(Part-1)
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non- Ferrous materials, alloys & products	Rockwell Hardness (HRB)	IS 1586(Part-1)

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116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non- Ferrous materials, alloys & products	Shear Load (Mandrel Size Dia 5,8,12,16,20mm)	IS 5242
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non- Ferrous materials, alloys & products	Shear Strength (Mandrel ,5,12,16,20mm)	IS 5242
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	0.2% Proof stress	ASTM E8/E8M
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	0.2% Proof stress	IS 1608(Part-1)
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	0.2% Proof stress	ISO 6892(Part-1)
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Bend Test	ASTM E290
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Bend Test	IS 1599
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Elongation	ASTM E8/E8M
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Elongation	IS 1608(Part-1)
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Elongation	ISO 6892(Part-1)
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Maximum force	ASTM E8/E8M
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Maximum Force	IS 1608(Part-1)
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Maximum Force	ISO 6892(Part-1)
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Reduction of Area	ASTM E8/E8M

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130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Reduction of Area	IS 1608(Part-1)
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Reduction of Area	ISO 6892(Part-1)
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Tensile Strength	ASTM E8/E8M
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Tensile Strength	IS 1608(Part-1)
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Tensile Strength	ISO 6892(Part-1)
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Yield Strength	ASTM E8/E8M
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Yield Strength	IS 1608(Part-1)
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous materials, alloys & products	Yield Strength	ISO 6892(Part-1)
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	0.2% Proof Stress	ASME SEC-II (Part-C)
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test, Face Bend Test, Root Bend Test, Side bend Test	ASME SEC-II (Part-C)
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test, Face Bend Test, Root Bend Test, Side bend Test	ASME SEC-IX
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test, Face Bend Test, Root Bend Test, Side bend Test	AWS D1.1
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test, Face Bend Test, Root Bend Test, Side bend Test	IBR 1950
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test, Face Bend Test, Root Bend Test, Side bend Test	INDIAN BOILER REGULATIONS 1950

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144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test, Face Bend Test, Root Bend Test, Side bend Test	IS 814
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test specimens	Bend Test, Transverse Root Bend, Transvese Face Bend, Transverse Side Bend Test	ASTM E190
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test-Face Bend Test, Root Bend Test	IS 3589
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Elongation	ASME SEC-II (Part-C)
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Elongation	IS 814
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Tensile Strength	ASME SEC IX
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Tensile Strength	ASME SEC-II (Part-C)
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Tensile Strength	AWS D1.1
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Tensile Strength	IBR 1950
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Tensile Strength	IS 814
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Yield Strength	ASME SEC-II (Part-C)
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Yield Strength	IS 814
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	0.2% Proof stress	ASTM B557
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	Elongation	ASTM B557

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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
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	Maximum force	ASTM B557
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	Tensile Strength	ASTM B557
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	Yield Strength	ASTM B557
161	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-Ferrous metals, alloys & products	Macro Structure	ASME Sec IX
162	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Depth of Decarburization measurement by microscopic method	ASTM E1077
163	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Depth of Decarburization measurement by microscopic method	IS 6396
164	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Designation ,classification of Grey Cast Iron (Size,Type and Distribution)	IS 7754
165	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determining the Inclusion Content of Steel by method A	ASTM E45
166	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determining the Inclusion Content of Steel by method A	IS 4163
167	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimation of Apparant Grain Size	ASTM E112
168	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimation of Apparent Grain Size	IS 4748
169	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Structure	ASTM E381
170	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Metal and Oxide Coating Thickness by Microscopic Examination	ASTM B487
171	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Metallography and Microstructures	ASM Vol 9
172	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Microstructure of Graphite in Iron Castings	ASTM A247
173	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Plating Thickness by Microscopic Method	IS 3203

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-9051	**Page No**	12 of 12
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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
174	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Total Case Depth measurement by Microscopic method	IS 6416
175	MECHANICAL-METALLOGRAPHY TEST	Other Non- Ferrous materials, alloys & products	Plating Thickness by Microscopic Method	IS 3203
176	MECHANICAL-METALLOGRAPHY TEST	Other Non-Ferrous metals, alloys & products	Microstructure	ASM Vol-9
177	MECHANICAL-METALLOGRAPHY TEST	Threaded Steel Fasteners	Breaking Load	IS 1367 (part-3)
178	MECHANICAL-METALLOGRAPHY TEST	Threaded Steel Fasteners	Proof Load	IS 1367 (Part-3)
179	MECHANICAL-METALLOGRAPHY TEST	Threaded Steel Fasteners (Nuts)	Proof Load	IS 1367 (Part-6)