National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VISION RESEARCH AND INNOVATION LABORATORY, #141, GANAPATHINAGARA, RAJAGOPALANAGARA MAIN ROAD, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10861 **Page No** 1 of 10

Validity 26/07/2022 to 25/07/2024 **Last Amended on** -

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 base & its alloys	Chromium	ASTM E1251
2	CHEMICAL- METALS & ALLOYS	Aluminium base & its alloys	Copper	ASTM E1251
3	CHEMICAL- METALS & ALLOYS	Aluminium base & its alloys	Iron	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium base & its alloys	Lead	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium base & its alloys	Magnesium	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium base & its alloys	Manganese	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium base & its alloys	Nickel	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium base & its alloys	Silicon	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium base & its alloys	Tin	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium base & its alloys	Titanium	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium base & its alloys	Zinc	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Copper base & its alloys	Aluminium	BS EN 15079
13	CHEMICAL- METALS & ALLOYS	Copper base & its alloys	Bismuth	BS EN 15079
14	CHEMICAL- METALS & ALLOYS	Copper base & its alloys	Iron	BS EN 15079
15	CHEMICAL- METALS & ALLOYS	Copper base & its alloys	Lead	BS EN 15079
16	CHEMICAL- METALS & ALLOYS	Copper base & its alloys	Manganese	BS EN 15079
17	CHEMICAL- METALS & ALLOYS	Copper base & its alloys	Nickel	BS EN 15079
18	CHEMICAL- METALS & ALLOYS	Copper base & its alloys	Phosphorus	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
19	CHEMICAL- METALS & ALLOYS	Copper base & its alloys	Silicon	BS EN 15079
20	CHEMICAL- METALS & ALLOYS	Copper base & its alloys	Tin	BS EN 15079
21	CHEMICAL- METALS & ALLOYS	Copper base & its alloys	Zinc	BS EN 15079
22	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Aluminium	IS 8811
23	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Aluminum	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Aluminum	JIS G 1253
25	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Arsenic	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Arsenic	JIS G 1253
27	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Carbon	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Carbon	IS 8811
29	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Carbon	JIS G 1253
30	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Chromium	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Chromium	IS 8811
32	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Chromium	JIS G 1253
33	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Cobalt	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Cobalt	IS 8811
35	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Cobalt	JIS G 1253
36	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Copper	ASTM E415
37	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Copper	IS 8811

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38	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Copper	JIS G 1253
39	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Manganese	ASTM E415
40	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Manganese	IS 8811
41	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Manganese	JIS G 1253
42	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Molybdenum	ASTM E415
43	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Molybdenum	IS 8811
44	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Molybdenum	JIS G 1253
45	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Nickel	ASTM E415
46	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Nickel	IS 8811
47	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Nickel	JIS G 1253
48	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Phosphorus	ASTM E415
49	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Phosphorus	IS 8811
50	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Phosphorus	JIS G 1253
51	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Silicon	ASTM E415
52	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Silicon	IS 8811
53	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Silicon	JIS G 1253
54	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Sulphur	ASTM E415
55	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Sulphur	IS 8811
56	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Sulphur	JIS G 1253

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57	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Vanadium	ASTM E415
58	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Vanadium	IS 8811
59	CHEMICAL- METALS & ALLOYS	Low Carbon Steel, Medium Carbon Steel, High Carbon Steel & Free Cutting Steel	Vanadium	JIS G 1253
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
69	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
70	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
71	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
72	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
73	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
74	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
75	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086

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76	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
77	CHEMICAL- METALS & ALLOYS	Tool Steel/Die Steel	Carbon	JIS G 1253
78	CHEMICAL- METALS & ALLOYS	Tool Steel/Die Steel	Chromium	JIS G 1253
79	CHEMICAL- METALS & ALLOYS	Tool Steel/Die Steel	Cobalt	JIS G 1253
80	CHEMICAL- METALS & ALLOYS	Tool Steel/Die Steel	Manganese	JIS G 1253
81	CHEMICAL- METALS & ALLOYS	Tool Steel/Die Steel	Molybdenum	JIS G 1253
82	CHEMICAL- METALS & ALLOYS	Tool Steel/Die Steel	Phosphorus	JIS G 1253
83	CHEMICAL- METALS & ALLOYS	Tool Steel/Die Steel	Silicon	JIS G 1253
84	CHEMICAL- METALS & ALLOYS	Tool Steel/Die Steel	Sulphur	JIS G 1253
85	CHEMICAL- METALS & ALLOYS	Tool Steel/Die Steel	Tungsten	JIS G 1253
86	CHEMICAL- METALS & ALLOYS	Tool Steel/Die Steel	Vanadium	JIS G 1253
87	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Rockwell Hardness Test	ASTM E18
88	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Rockwell Hardness Test	ASTM E18
89	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Rockwell Hardness Test	ASTM E18
90	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Rockwell Hardness Test	IS 1586 (Part 1)
91	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Rockwell Hardness Test	IS 1586 (Part 1)
92	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Rockwell Hardness Test	ISO 6508-1

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93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Rockwell Hardness Test	ISO 6508-1
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Rockwell Hardness Test	ISO 6508-1
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Rockwell Hardness Test	IS 1586 (Part 1)
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test – % Elongation	IS 1608 (Part 1)
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test - Yield Strength	IS 1608 (Part 1)
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test- Tensile Strength	IS 1608 (Part 1)
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Vickers Hardness Test	ASTM E92
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Vickers Hardness Test	ASTM E92
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Vickers Hardness Test	IS 1501 (Part 1)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Vickers Hardness Test	ISO 6507-1
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Vickers Hardness Test	ISO 6507-1
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Vickers Hardness Test	IS 1501 (Part 1)
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (High Strength Deformed Steel Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test – % Elongation	ISO 6892-1
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (High Strength Deformed Steel Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test – % Reduction Area	ASTM E8/E8M

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107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (High Strength Deformed Steel Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test – % Reduction Area	ISO 6892-1
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (High Strength Deformed Steel Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test - Yield Strength	ISO 6892-1
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (High Strength Deformed Steel Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test- Tensile Strength	ISO 6892-1
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test – % Elongation	ASTM E8/E8M
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test - Yield Strength	ASTM E8/E8M
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test- Tensile Strength	ASTM E8/E8M
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Sheets, Plates, Rods, Bars, Flats, Tubes & Pipes)	Brinell Hardness Test	ISO 6506-1
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Sheets, Plates, Rods, Bars, Flats, Tubes & Pipes)	Brinell Hardness Test	ASTM E10
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Sheets, Plates, Rods, Bars, Flats, Tubes & Pipes)	Brinell Hardness Test	IS 1500 (Part 1)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and its alloys (Steel Bars, Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test – % Reduction Area	IS 1608 (Part 1)
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars, Plates, Sheets	Bend Test	ISO 7438
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Re- Bend Test	IS 1786
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires (Section 4mm to 40mm)	Tensile Test - Tensile Strength	IS 1786
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires (Section 4mm to 40mm)	Tensile Test – % Elongation	IS 1786

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121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires (Section 4mm to 40mm)	Tensile Test - Yield Strength	IS 1786
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars, Plates, Sheets	Bend Test	IS 1599
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Brinell Hardness Test	ASTM E10
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Brinell Hardness Test	ISO 6506-1
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Brinell Hardness Test	IS 1500 (Part 1)
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Rockwell Hardness Test	ASTM E18
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Rockwell Hardness Test	IS 1586 (Part 1)
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Rockwell Hardness Test	ISO 6508-1
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test – % Elongation	IS 1608 (Part 1)
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test – % Elongation	ASTM E8/E8M
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test – % Elongation	ISO 6892-1
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test – % Reduction Area	ASTM E8/E8M
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test – % Reduction Area	IS 1608 (Part 1)
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test – % Reduction Area	ISO 6892-1

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135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test - Yield Strength	ASTM E8/E8M
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test - Yield Strength	IS 1608 (Part 1)
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test - Yield Strength	ISO 6892-1
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test - Tensile Strength	ASTM E8/E8M
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test - Tensile Strength	IS 1608 (Part 1)
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Tensile Test - Tensile Strength	ISO 6892-1
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Vickers Hardness Test	ASTM E92
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Vickers Hardness Test	ASTM E92
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Vickers Hardness Test	IS 1501 (Part 1)
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Vickers Hardness Test	IS 1501 (Part 1)
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Vickers Hardness Test	ISO 6507-1
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Bars, Rods, Flats, Tubes & Pipes)	Vickers Hardness Test	ISO 6507-1
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Rods, Bars, Flats, Tubes & Pipes)	Brinell Hardness Test	ASTM E10
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Rods, Bars, Flats, Tubes & Pipes)	Brinell Hardness Test	IS 1500 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : VISION RESEARCH AND INNOVATION LABORATORY, #141, GANAPATHINAGARA, RAJAGOPALANAGARA MAIN ROAD, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10861 **Page No** 10 of 10

Validity 26/07/2022 to 25/07/2024 **Last Amended on** -

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
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous material and its alloys & products (Sheets, Plates, Rods, Bars, Flats, Tubes & Pipes)	Brinell Hardness Test	ISO 6506-1
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Specimens	Tensile strength	ASME Section IX
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend test (Face, root, side)	ASME Section IX