National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RAVI LABS, H.NO.5-100/2, PLOT NO.706, ROAD NO.6, BUDDANAGAR COLONY, HYDERABAD, MEDCHAL MALKAJGIRI, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 13/04/2022 to 12/04/2024 **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 & its alloys	Chromium (Cr)	ASTM E1251
2	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium (Cr)	IS 11035
3	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper (Cu)	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper (Cu)	IS 11035
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron (Fe)	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron (Fe)	IS 11035
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead (Pb)	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium (Mg)	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium (Mg)	IS 11035
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Managnese (Mn)	IS 11035
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese (Mn)	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel (Ni)	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon (Si)	ASTM E1251
14	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon (Si)	IS 11035
15	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium (Ti)	ASTM E1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium (Ti)	IS 11035
17	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc (Zn)	ASTM E1251
18	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc (Zn)	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	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Aluminium (Al)	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Aluminium (Al)	IS 8811
21	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Carbon (C)	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Carbon (C)	IS 8811
23	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Chromium (Cr)	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Chromium (Cr)	IS 8811
25	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Copper (Cu)	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Copper (Cu)	IS 8811
27	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Manganese (Mn)	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Manganese (Mn)	IS 8811
29	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Molybdenum (Mo)	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Molybdenum (Mo)	IS 8811
31	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Nickel (Ni)	ASTM E415
32	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Nickel (Ni)	IS 8811
33	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Nitrogen (N)	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Phosphorous (P)	ASTM E415
35	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Phosphorous (P)	IS 8811
36	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Silicon (Si)	ASTM E415
37	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Silicon (Si)	IS 8811

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38	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Sulphur (S)	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Sulphur (S)	IS 8811
40	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Vanadium (V)	ASTM E415
41	CHEMICAL- METALS & ALLOYS	Low alloy steel, Low carbon steel, Carbon steel, Mild steel, Spring steel, Bearing steel, Tor steel, Free cutting steel	Vanadium (V)	IS 8811
42	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Carbon (C)	ASTM E1086
43	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Carbon (C)	IS 9879
44	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Chromium (Cr)	ASTM E1086
45	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Chromium (Cr)	IS 9879
46	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Copper (Cu)	ASTM E1086
47	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Manganese (Mn)	ASTM E1086
48	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Manganese (Mn)	IS 9879
49	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Molybdenum (Mo)	ASTM E1086
50	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Molybdenum (Mo)	IS 9879
51	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Nickel (Ni)	ASTM E1086
52	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Nickel (Ni)	IS 9879
53	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Phosphorous (P)	ASTM E1086
54	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Phosphorous (P)	IS 9879
55	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Silicon (Si)	ASTM E1086
56	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Silicon (Si)	IS 9879

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57	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Sulphur (S)	ASTM E1086
58	CHEMICAL- METALS & ALLOYS	Stainless steel, Duplex steel	Sulphur (S)	IS9879
59	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Aluminium (Al)	IS 15338
60	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Carbon (C)	ASTM E1999
61	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Carbon (C)	IS 15338
62	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Chromium (Cr)	ASTM E1999
63	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Chromium (Cr)	IS 15338
64	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Copper (Cu)	ASTM E1999
65	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Copper (Cu)	IS 15338
66	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Manganese (Mn)	ASTM E1999
67	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Mangnaese (Mn)	IS 15338
68	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Molybdenum (Mo)	ASTM E1999
69	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Molybdenum (Mo)	IS 15338
70	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Nickel (Ni)	ASTM E1999
71	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Nickel (Ni)	IS 15338
72	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Phosphorous (P)	ASTM E1999
73	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Phosporous (P)	IS15338
74	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Silicon (Si)	ASTM E1999
75	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Silicon (Si)	IS 15338

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76	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Sulphur (S)	ASTM E1999
77	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Sulphur (S)	IS 15338
78	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Tin (Sn)	ASTM E1999
79	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Titanium (Ti)	ASTM E1999
80	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Vanadium (V)	ASTM E1999
81	CHEMICAL- METALS & ALLOYS	White cast Iron, Malleable cast Iron, Grey cast Iron & SG Iron	Vanadium (V)	IS 15338
82	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	% Elongation	IS 1608 Part-1
83	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	% Reduction of area	IS 1608 part1
84	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	0.2% Proof stress	IS 1608 part1
85	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	Bend test	IS 1599
86	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	Brinell Hardness Test	IS1500 Part-1
87	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	Vickers Hardness Test	IS 1501 Part-1
88	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	Rockwell Hardness Test	IS 1586 Part-1
89	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Rockwell Hardness Test	IS 1586 Part-1
90	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield stress	IS 1608 Part-1

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91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous/Non Ferrous Materials	Tensile strength	IS 1608 Part-1
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hex socket head bolt / Bolt	Ultimate Tensile Load	IS 1608 Part1
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength Deformed Steel Bars and Wires for Concrete Reinforcement (TMT Bars)	% Elongation	IS 1608 Part-1
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength Deformed Steel Bars and Wires for Concrete Reinforcement (TMT Bars)	Bend test	IS 1786
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength Deformed Steel Bars and Wires for Concrete Reinforcement (TMT Bars)	Mass per meter	IS 1786
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength Deformed Steel Bars and Wires for Concrete Reinforcement (TMT Bars)	Rebend Test	IS 1786
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength Deformed Steel Bars and Wires for Concrete Reinforcement (TMT Bars)	Tensile Strength	IS 1608 Part-1
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength Deformed Steel Bars and Wires for Concrete Reinforcement (TMT Bars)	Yield stress	IS 1608 Part-1
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength Deformed Steel Bars and Wires for Concrete Reinforcement (TMT Bars)	TS/YS Ratio	IS 1608 Part-1
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials - Sheet and Strip	Erichsen Cupping Index	IS 10175
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Couplers for Mechanical Splices of Bars in Concrete	Tensile Strength	IS 1608 Part-1
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Couplers for Mechanical Splices of Bars in Concrete	Location of failure	IS 16172
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Uncoated Stress Relieved Low Relaxation Seven-wire (Ply) Strand for Prestressed Concrete	Average diameter of surrounding wires	IS 14268
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Uncoated Stress Relieved Low Relaxation Seven-wire (Ply) Strand for Prestressed Concrete	Breaking Strength	IS 1608 part 1

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105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Uncoated Stress Relieved Low Relaxation Seven-wire (Ply) Strand for Prestressed Concrete	Centre wire diameter	IS 14268
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Uncoated Stress Relieved Low Relaxation Seven-wire (Ply) Strand for Prestressed Concrete	Elongation	IS 1608 Part1
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Uncoated Stress Relieved Low Relaxation Seven-wire (Ply) Strand for Prestressed Concrete	Length of Lay of strand	IS 14268
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Uncoated Stress Relieved Low Relaxation Seven-wire (Ply) Strand for Prestressed Concrete	Nominal area of strand	IS 14268
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Uncoated Stress Relieved Low Relaxation Seven-wire (Ply) Strand for Prestressed Concrete	Nominal diameter of strand	IS 14268
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Uncoated Stress Relieved Low Relaxation Seven-wire (Ply) Strand for Prestressed Concrete	Nominal mass	IS 14268
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wire rope	Actual Breaking Force	IS 1608 Part1