National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING AND CALIBRATION LABORATORY RICO AUTO INDUSTRIES LIMITED, 38TH MILE STONE DELHI JAIPUR HIGHWAY, GURGAON, GURUGRAM, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11177 **Page No** 1 of 7

Validity 19/11/2022 to 18/11/2024 **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 Alloy	Iron (Fe)	ASTM E 1251
2	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Titanium (Ti)	ASTM E 1251
3	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Chromium (Cr)	ASTM E 1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper (Cu)	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Lead (Pb)	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Magnesium (Mg)	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Manganese (Mn)	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Nickel (Ni)	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Silicon (Si)	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Tin (Sn)	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Vanadium (V)	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Zinc (Zn)	ASTM E 1251
13	CHEMICAL- METALS & ALLOYS	Brass	Aluminium (Al)	BS EN 15079
14	CHEMICAL- METALS & ALLOYS	Brass	Arsenic (As)	BS EN 15079
15	CHEMICAL- METALS & ALLOYS	Brass	Iron (Fe)	BS EN 15079
16	CHEMICAL- METALS & ALLOYS	Brass	Lead (Pb)	BS EN 15079
17	CHEMICAL- METALS & ALLOYS	Brass	Manganese (Mn)	BS EN 15079
18	CHEMICAL- METALS & ALLOYS	Brass	Nickel (Ni)	BS EN 15079

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19	CHEMICAL- METALS & ALLOYS	Brass	Phosphorus (P)	BS EN 15079
20	CHEMICAL- METALS & ALLOYS	Brass	Silicon (Si)	BS EN 15079
21	CHEMICAL- METALS & ALLOYS	Brass	Tin (Sn)	BS EN 15079
22	CHEMICAL- METALS & ALLOYS	Brass	Zinc (Zn)	BS EN 15079
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon (C)	ASTM E 1999
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium (Cr)	ASTM E 1999
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper (Cu)	ASTM E 1999
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese (Mn)	ASTM E 1999:
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum (Mo)	ASTM E 1999
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel (Ni)	ASTM E 1999
29	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus (P)	ASTM E 1999:
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon (Si)	ASTM E 1999
31	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur (S)	ASTM E 1999
32	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin (Sn)	ASTM E 1999:
33	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Aluminium (Al)	BS EN 15079
34	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Antimony (Sb)	BS EN 15079
35	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Beryllium (Be)	BS EN 15079
36	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Cadmium (Cd)	BS EN 15079
37	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Chromium (Cr)	BS EN 15079

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38	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Cobalt (Co)	BS EN 15079
39	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Iron (Fe)	BS EN 15079
40	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Lead (Pb)	BS EN 15079
41	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Manganese (Mn)	BS EN 15079
42	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Nickel (Ni)	BS EN 15079
43	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Phosphorus (P)	BS EN 15079
44	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Silicon (Si)	BS EN 15079
45	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Tin (Sn)	BS En 15079
46	CHEMICAL- METALS & ALLOYS	Copper & Its Alloy	Zinc (Zn)	BS EN 15079
47	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Aluminum (Al)	ASTM E 2209
48	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Carbon	ASTM E 2209
49	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Chromium (Cr)	ASTM E 2209
50	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Manganese (Mn)	ASTM E 2209
51	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Molybdenum (Mo)	ASTM E 2209
52	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Nickel (Ni)	ASTM E 2209
53	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Phosphorus (P)	ASTM E 2209
54	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Silicon (Si)	ASTM E 2209
55	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminum (Al)	ASTM E 415
56	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon (C)	ASTM E 415

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57	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium (Cr)	ASTM E 415
58	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt (Co)	ASTM E 415
59	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper (Cu)	ASTM E 415
60	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese (Mn)	ASTM E 415
61	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum (Mo)	ASTM E 415
62	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel (Ni)	ASTM E 415
63	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium (Nb)	ASTM E 415
64	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus (P)	ASTM E 415
65	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon (Si)	ASTM E 415
66	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur (S)	ASTM E 415
67	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium (V)	ASTM E 415
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon (C)	IS 9879
69	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium (Cr)	IS 9879:
70	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper (Cu)	IS 9879
71	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese (Mn)	IS 9879
72	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum (Mo)	IS 9879
73	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel (Ni)	IS 9879
74	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus (P)	IS 9879
75	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon (Si)	IS 9879

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76	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur (S)	IS 9879
77	CHEMICAL- METALS & ALLOYS	Stainless Steel (Austenitic)	Carbon (C)	ASTM E 1086
78	CHEMICAL- METALS & ALLOYS	Stainless Steel (Austenitic)	Copper (Cu)	ASTM E 1086
79	CHEMICAL- METALS & ALLOYS	Stainless Steel (Austenitic)	Manganese (Mn)	ASTM E 1086
80	CHEMICAL- METALS & ALLOYS	Stainless Steel (Austenitic)	Molybdenum (Mo)	ASTM E 1086
81	CHEMICAL- METALS & ALLOYS	Stainless Steel (Austenitic)	Nickel (Ni)	ASTM E 1086
82	CHEMICAL- METALS & ALLOYS	Stainless Steel (Austenitic)	Phosphorus (P)	ASTM E 1086
83	CHEMICAL- METALS & ALLOYS	Stainless Steel (Austenitic)	Silicon (Si)	ASTM E 1086
84	CHEMICAL- METALS & ALLOYS	Stainless Steel (Austenitic)	Sulphur (S)	ASTM E 1086
85	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Aluminium (Al)	ISO 3815-1
86	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Cadmium (Cd)	ISO 3815-1
87	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Copper (Cu)	ISO 3815-1
88	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Iron (Fe)	ISO3815-1
89	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Lead (Pb)	ISO 3815-1
90	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Magnesium (Mg)	ISO 3815-1
91	CHEMICAL- METALS & ALLOYS	Zinc & its Alloy	Tin (Sn)	ISO 3815-1
92	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloy	% Elongation	ASTM B557M:
93	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloy	Tensile Strength	ASTM B557M

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94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	% Elongation	ASTM E8/E8M
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	% Elongation	IS 1608
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Brinell Hardness Test	ASTM E10
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Brinell Hardness Test	ASTM E10
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Brinell Hardness Test	ASTM E10
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Brinell Hardness Test	ASTM E10
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Brinell Hardness Test	ASTM E10
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Proof Stress	ASTM B557M
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Proof Stress	ASTM E8/E8M
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Proof Stress	IS 1608
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Rockwell Hardness Test (HRA)	ASTM E18
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Rockwell Hardness Test (HRC)	ASTM E18
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Tensile Strength	IS 1608
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Vickers Hardness Test	ASTM E92

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108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Vickers Hardness Test	ASTM E92
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Cast Iron and Aluminum Alloy	Vickers Hardness Test	ASTM E92
110	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure Characterization of graphite in iron casting	ASTM A247