National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ANALYTICAL RESEARCH & METALLURGICAL LABORATORIES PVT LTD (ARML), # A101 & A102, KSSIDC COMPLEX, BLOCK II, ELECTRONIC CITY PHASE-I, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 1 of 18

Validity 16/03/2023 to 15/03/2025 **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- CORROSION TESTS	Coated metals & Panels	Assessment of degree of blistering	ISO 4628-2 & EN 13523 -27:2017
2	CHEMICAL- CORROSION TESTS	Coated metals & Panels	Assessment of degree of rusting	ISO 4628-3 & EN 13523 -27:2017
3	CHEMICAL- CORROSION TESTS	Coated metals & Panels	Cataplasm Test (Resistance to humid poultice) : visual and cross cut adhesion	EN 13523-27
4	CHEMICAL- CORROSION TESTS	Coated metals & Panels	Cross cut test	ISO 2409
5	CHEMICAL- CORROSION TESTS	Coated metals, Panels, Metallic products and Raw Materials	Acetic acid & copper sulphate acetic acid Salts Spray Testing	ISO 9227
6	CHEMICAL- CORROSION TESTS	Metallic products and Raw Materials	Salts Spray Testing	ASTM B117
7	CHEMICAL- CORROSION TESTS	Metallic products and Raw Materials	Salts Spray Testing	ISO 9227
8	CHEMICAL- CORROSION TESTS	Metallic products and Raw Materials	Salts Spray Testing	JIS Z 2371
9	CHEMICAL- METALS & ALLOYS	Aluminum & Its Alloys	Chromium	ASTM E 1251:
10	CHEMICAL- METALS & ALLOYS	Aluminum & Its Alloys	Copper	ASTM E 1251:
11	CHEMICAL- METALS & ALLOYS	Aluminum & Its Alloys	Iron	ASTM E 1251:
12	CHEMICAL- METALS & ALLOYS	Aluminum & Its Alloys	Lead	ASTM E 1251:
13	CHEMICAL- METALS & ALLOYS	Aluminum & Its Alloys	Magnesium	ASTM E 1251:
14	CHEMICAL- METALS & ALLOYS	Aluminum & Its Alloys	Manganese	ASTM E 1251:
15	CHEMICAL- METALS & ALLOYS	Aluminum & Its Alloys	Nickel	ASTM E 1251:
16	CHEMICAL- METALS & ALLOYS	Aluminum & Its Alloys	Silicon	ASTM E 1251:
17	CHEMICAL- METALS & ALLOYS	Aluminum & Its Alloys	Tin	ASTM E 1251:
18	CHEMICAL- METALS & ALLOYS	Aluminum & Its Alloys	Titanium	ASTM E 1251:

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 2 of 18

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

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19	CHEMICAL- METALS & ALLOYS	Aluminum & Its Alloys	Zinc	ASTM E 1251:
20	CHEMICAL- METALS & ALLOYS	Aluminum & Its Alloys	Zirconium	ASTM E 1251:
21	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Carbon	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Carbon	IS 8811
23	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Carbon	JIS G 1253
24	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Chromium	ASTM E415
25	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Chromium	IS 8811
26	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Chromium	JIS G 1253
27	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Copper	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Copper	IS 8811
29	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Copper	JIS G 1253
30	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Manganese	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Manganese	IS 8811
32	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Manganese	JIS G 1253
33	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Molybdenum	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Molybdenum	IS 8811
35	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Molybdenum	JIS G 1253
36	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Nickel	ASTM E415
37	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Nickel	IS 8811

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 3 of 18

Validity 16/03/2023 to 15/03/2025 **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
38	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Nickel	JIS G 1253
39	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Phosphorous	ASTM E415
40	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Phosphorous	IS 8811
41	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Phosphorous	JIS G 1253
42	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Silicon	ASTM E415
43	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Silicon	IS 8811
44	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Silicon	JIS G 1253
45	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Sulphur	ASTM E415
46	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Sulphur	IS 8811
47	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low & Medium carbon Steel)	Sulphur	JIS G 1253
48	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BS EN 15079
49	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth	BS EN 15079
50	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS 7212
51	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079:
52	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BS EN 15079
53	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079
54	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079
55	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN 15079
56	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BS EN 15079

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 4 of 18

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

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57	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 9879
58	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 9879
59	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	IS 9879
60	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 9879
61	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 9879
62	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 9879
63	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous	IS 9879
64	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS 9879
65	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 9879
66	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Specific Gravity	ASTMD792
67	CHEMICAL- PLASTIC & RESINS	Plastics and Resins	Ash/ Filler Content	ASTM D 5630
68	CHEMICAL- PLASTIC & RESINS	Plastics and Resins	Ash/ Filler Content	ISO 3451-1
69	CHEMICAL- PLASTIC & RESINS	Plastics and Resins	Density (Relative Density)	ASTM D 792
70	CHEMICAL- PLASTIC & RESINS	Plastics and Resins	Identification test	ASTM E1252
71	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubbers and Synthetic Rubber	Ash/Filler Content	ISO 247-1
72	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Products	Identification Test	ASTM D 3677-10
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast Iron	Brinell Hardness, HBW 10/1000	IS 1500 (Part-1)
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Elongation Percent	ASTM E8/E8M

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 5 of 18

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

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75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Elongation Percent	IS 1608 (P-1)
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Elongation Percent	ISO 6892-1
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Reduction in Area	ASTM E8/E8M
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Reduction in Area	IS 1608 (P-1)
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Reduction in Area	ISO 6892-1
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Tensile Strength	ASTM E8/E8M
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Tensile Strength	IS 1608 (P-1)
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Tensile Strength	ISO 6892-1
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV0.1	ASTM E384
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV0.1	ASTM E92
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV0.1	IS 1501 (P-1)
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV0.2	ASTM E92
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV0.2	IS 1501 (P-1)
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV0.2	ASTM E384

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 6 of 18

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

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89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV0.3	ASTM E384
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV0.3	ASTM E92
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV0.3	IS 1501 (P-1)
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV0.5	ASTM E384
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV0.5	ASTM E92
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV0.5	IS 1501 (P-1)
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV1	ASTM E384
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV1	ASTM E92
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV1	IS 1501 (P-1)
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV10	ASTM E92
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV10	IS 1501 (P-1)
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV5	ASTM E92
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness, HV5	IS 1501 (P-1)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Yield strength	ASTM E8/E8M

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 7 of 18

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

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103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Yield strength	IS 1608 (P-1)
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Yield strength	ISO 6892-1
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV0.1	ASTM E384
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV0.1	ASTM E92
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV0.1	IS 1501 (P-1)
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend	IS 1599
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness, HBW 2.5/187.5	ASTM E10
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness, HBW 2.5/187.5	IS 1500 (Part-1)
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness, HBW 5/750	ASTM E10
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness, HBW 5/750	IS 1500 (Part-1)
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness, HBW10/3000	ASTM A370
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness, HBW10/3000	ASTM E10
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness, HBW10/3000	IS 1500 (Part-1)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness, HBW2.5/187.5	ASTM A370

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 8 of 18

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

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117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness, HBW5/750	ASTM A370
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elongation Percent	IS 1608(P-1)
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elongation Percent	ASTM A370
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elongation Percent	ASTM E8/E8M
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elongation Percent	ISO 6892-1
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Proof Strength (0.01 to 0.5%)	ASTM E8/E8M
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Proof Strength (0.01 to 0.5%)	IS 1608 (P-1)
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Proof strength (0.01 to 0.5%)	ISO 6892-1
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Proof Stress (0.01 to 0.5%)	ASTM A370
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reduction in Area	ASTM A370
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reduction in Area	ASTM E8/E8M
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reduction in Area	IS 1608 (P-1)
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reduction in Area	ISO6892-1
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness, HRA	IS 1586 (Part-1)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 9 of 18

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

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131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness, HRB	ASTM E18
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness, HRB	IS 1586 (Part-1)
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness, HRC	IS 1586 (Part-1)
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness, HRA	ASTM A370
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness, HRA	ASTM E18
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness, HRB	ASTM A370
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness, HRC	ASTM A370
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness, HRC	ASTM E18
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Shear	IS 5242
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Strength	ASTM A370
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Strength	ASTM E8/E8M
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Strength	IS 1608 (P-1)
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Strength	ISO 6892-1
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV0.2	ASTM E384

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 10 of 18

Validity 16/03/2023 to 15/03/2025 **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
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV0.2	ASTM E92
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV0.2	IS 1501 (Part-1)
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV0.3	ASTM E384
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV0.3	ASTM E92
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV0.3	IS 1501 (P-1)
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV0.5	ASTM E92
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV0.5	IS 1501 (P-1)
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV0.5	ASTM E384
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV1	ASTM E92
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV1	IS 1501 (P-1)
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV1	ASTM E384
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV10	ASTM E92
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV10	IS 1501 (P-1)
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV5	ASTM E92

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 11 of 18

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

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159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness, HV5	IS 1501 (P-1)
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strength	ASTM A370
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strength	ASTM E8/E8M
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strength	IS 1608 (P-1)
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strength	ISO 6892-1
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Mass per metre	IS 1786
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tubes	Drifting	IS 2335
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tubes	Flattening	IS 2328
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic wires	Reverse Bend Test	IS 1716
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Bend	IS 1599
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Brinell hardness, HBW 10/1000	ASTM E10
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Brinell Hardness, HBW 10/1000	IS 1500(Part-1)
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Brinell hardness, HBW 10/3000	ASTM E10
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Brinell Hardness, HBW10/3000	IS 1500 (Part-1)

SCOPE OF ACCREDITATION

Laboratory Name : ANALYTICAL RESEARCH & METALLURGICAL LABORATORIES PVT LTD (ARML), # A101 & A102, KSSIDC COMPLEX, BLOCK II, ELECTRONIC CITY PHASE-I, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 12 of 18

Validity 16/03/2023 to 15/03/2025 **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
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Brinell Hardness, HBW2.5/187.5	ASTM E10
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Brinell Hardness, HBW2.5/187.5	IS 1500 (Part-1)
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Brinell Hardness, HBW5/750	ASTM E10
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Brinell Hardness, HBW5/750	IS 1500 (Part-1)
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Elongation Percent	ASTM E8/E8M
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Elongation Percent	IS 1608 (P-1)
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Elongation Percent	ISO 6892-1
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Proof Strength (0.01 to 0.5%)	ASTM E8/E8M
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Proof Strength (0.01 to 0.5%)	IS 1608(P-1)
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Proof Strength (0.01 to 0.5%)	ISO 6892-1
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Reduction in Area	ASTM E8/E8M
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Reduction in Area	IS 1608 (P-1)
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Reduction in Area	ISO 6892-1
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Rockwell Hardness, HRB	ASTM E18

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 13 of 18

Validity 16/03/2023 to 15/03/2025 **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
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Rockwell Hardness, HRB	IS 1586 (P-1)
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Rockwell Hardness, HRC	ASTM E18
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Rockwell Hardness, HRC	IS 1586 (Part-1)
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Shear	IS 5242
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Tensile Strength	ASTM E8/E8M
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Tensile Strength	IS 1608 (P-1)
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Tensile Strength	ISO 6892-1
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV0.1	ASTM E384
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV0.1	ASTM E92
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV0.1	IS 1501 (P-1)
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV0.2	ASTM E384
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV0.2	ASTM E92
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV0.2	IS 1501 (P-1)
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV0.3	IS 1501 (P-1)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 14 of 18

Validity 16/03/2023 to 15/03/2025 **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
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV0.3	ASTM E384
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV0.3	ASTM E92
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV0.5	ASTM E384
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV0.5	ASTM E92
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV0.5	IS 1501 (P-1)
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV1	ASTM E384
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV1	ASTM E92
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV1	IS 1501 (P-1)
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV10	ASTM E92
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV10	IS 1501 (P-1)
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV5	ASTM E92
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Vickers Hardness, HV5	IS 1501 (P-1)
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Yield Strength	ASTM E8/E8M
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Yield Strength	IS 1608 (P-1)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 15 of 18

Validity 16/03/2023 to 15/03/2025 **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
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Yield strength	ISO 6892-1
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spot & Seam welded sheets	Chisel Test	AWS B4.0
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spot & Seam welded sheets	Chisel Test	ISO 10447
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spot & Seam welded sheets	Peel Test	ASME Sec. IX
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spot & Seam welded sheets	Peel Test	ISO 10447
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spot & Seam welded sheets	Peel Test	ISO 14270
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spot & Seam welded sheets	Peel/ Pull Test	AWS B4.0
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spot & Seam welded sheets	Tensile Shear	ASME Sec. IX
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spot & Seam welded sheets	Tensile Shear	ISO 14273
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spot & Seam welded sheets	Tension Shear	AWS B4.0
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Crushing	IS 3074
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded & brazed products	Vickers Hardness, HV1	BS EN ISO 9015-2
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded & brazed products	Vickers Hardness, HV10	BS EN ISO 9015-1
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded & brazed products	Vickers Hardness, HV5	BS EN ISO 9015-1

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 16 of 18

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

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229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Brazed Products	Tensile Test	ASME Sec. IX
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Brazed Products	Tensile Test	IS 3600 (Part-3)
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Brazed Products	Bend	ASME Sec. IX
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Brazed Products	Bend	AWS B4.0
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Brazed Products	Bend	IS 3600 (Part-5)
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Brazed Products	Bend	ISO 5173
235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Brazed Products	Fracture Test	ASME Sec. IX
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Brazed Products	Fracture Test	AWS B4.0
237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Brazed Products	Fracture Test	ISO 9017
238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Brazed Products	Tensile Test	AWS B4.0
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded and Brazed Products	Tensile Test	ISO 4136
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Steel sheet	Bend	AWS D1.3/D1.3M
241	MECHANICAL-METALLOGRAPHY TEST	Aluminum materials, alloys & products	Macrostructure	ASM Handbook Vol. 9
242	MECHANICAL-METALLOGRAPHY TEST	Aluminum materials, alloys & products	Macrostructure	ASTM E340

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 17 of 18

Validity 16/03/2023 to 15/03/2025 **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
243	MECHANICAL-METALLOGRAPHY TEST	Aluminum materials, alloys & products	Microstructure	ASM Handbook Vol. 9
244	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure	IS 7754
245	MECHANICAL-METALLOGRAPHY TEST	Copper materials, alloys & products	Macrostructure	ASM Handbook Vol. 9
246	MECHANICAL-METALLOGRAPHY TEST	Copper materials, alloys & products	Macrostructure	ASTM E340
247	MECHANICAL-METALLOGRAPHY TEST	Copper materials, alloys & products	Microstructure	ASM Handbook Vol. 9
248	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Depth of decarburized layer by Microscopic Method	IS 6396
249	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Grain size	ASTM E112
250	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & Products	Grain size	IS 4748
251	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macrostructure	ASM Handbook Vol. 9
252	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macrostructure	ASTM E340
253	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macrostructure	IS13015
254	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Microstructure	ASM Handbook Vol. 9
255	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Microstructure	IS 7739 (P-5)
256	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous metals, alloys & products	Grain size	ASTM E112
257	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous metals, alloys & products	Macrostructure	ASTM E340
258	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous metals, alloys & products	Macrostructure	ASM Handbook Vol. 9
259	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous metals, alloys & products	Microstructure	ASM Handbook Vol. 9
260	MECHANICAL-METALLOGRAPHY TEST	Plated/ coated parts	Plating/ Layer Thickness by Microscopic Method	IS 3203
261	MECHANICAL-METALLOGRAPHY TEST	Steel	Effective Case Depth by Hardness method	IS 6416

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7254 **Page No** 18 of 18

Validity 16/03/2023 to 15/03/2025 **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
262	MECHANICAL-METALLOGRAPHY TEST	Steel	Total Case Depth by macrostructure method	IS 6416
263	MECHANICAL-METALLOGRAPHY TEST	Steel	Total Case Depth by microscopic method	IS 6416
264	MECHANICAL-METALLOGRAPHY TEST	Steel products	Inclusion Rating, Method 'A'	ASTM E45
265	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Inclusion Rating, Method 'A'	IS 4163
266	MECHANICAL-METALLOGRAPHY TEST	Welded & brazed products	Macro Examination	IS 3600 (Part-9)
267	MECHANICAL-METALLOGRAPHY TEST	Welded & brazed products	Microstructure/ Micro Examination	IS 3600 (Part-9)
268	MECHANICAL-METALLOGRAPHY TEST	Welded & brazed products	Macro Examination	ASM Handbook Vol. 9
269	MECHANICAL-METALLOGRAPHY TEST	Welded & brazed products	Macro Examination	ASME Sec. IX
270	MECHANICAL-METALLOGRAPHY TEST	Welded & brazed products	Macro Examination	ASTM E340
271	MECHANICAL-METALLOGRAPHY TEST	Welded & brazed products	Macro Examination	ISO 17639
272	MECHANICAL-METALLOGRAPHY TEST	Welded & brazed products	Microstructure/ Micro Examination	ASM Handbook Vol. 9
273	MECHANICAL-METALLOGRAPHY TEST	Welded & brazed products	Microstructure/ Micro Examination	ASME Sec. IX
274	MECHANICAL-METALLOGRAPHY TEST	Welded & brazed products	Microstructure/ Micro Examination	ISO 17639