National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : AHMEDNAGAR AUTO AND ENGINEERING ASSOCIATION- METALLURGY LAB, G-47/5, MIDC, AHMEDNAGAR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 09/11/2022 to 08/11/2024 **Last Amended on** 07/03/2023

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	Alluminium & its alloys	Iron	ASTM E 1251
2	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E 1251
3	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E 1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E 1999
13	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 15338
14	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E 1999
15	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 15338
16	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
17	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338
18	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E 1999

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19	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 15338
20	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E 1999
21	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 15338
22	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 1999
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 15338
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E 1999
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 15338
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulfur	ASTM E 1999
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulfur	IS 15338
28	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Aluminium	BS EN 15079
29	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Iron	BS EN 15079
30	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Lead	BS EN 15079
31	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Nickel	Bs EN 15079
32	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Phosphorus	BS EN 15079
33	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Silicon	BS EN 15079
34	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Sulphur	BS EN 15079
35	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Tin	BS EN 15079
36	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Zinc	BS EN 15079
37	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium	ASTM E 415

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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
38	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium	IS 8811
39	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	ASTM E 415
40	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 8811
41	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 8811
43	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	ASTM E 415
44	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	IS 8811
45	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead	ASTM E 415
46	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead	IS 8811
47	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	ASTM E415
48	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 8811
49	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	ASTM E415
50	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	IS 8811
51	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	ASTM E415
52	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	IS 8811
53	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium	ASTM E415
54	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium	IS 8811
55	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	ASTM E415
56	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	IS 8811

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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
57	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E415
58	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 8811
59	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulfur	ASTM E415
60	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulfur	IS 8811
61	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	ASTM E415
62	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	IS 8811
63	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tungsten	IS 8811
64	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	ASTM E415
65	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	IS 8811
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1086
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086
69	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
70	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	IS 9879
71	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
72	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
73	CHEMICAL- METALS & ALLOYS	Stainless Steel	manganese	ASTM E 1086
74	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
75	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E 1086

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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
76	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
77	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E 1086
78	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
79	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	IS 9879
80	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	IS 9879
81	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086
82	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
83	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 1086
84	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
85	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	ASTM E 1086
86	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	IS 9879
87	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	IS 9879
88	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS 1253
89	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS 1253
90	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS 1253
91	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS 1253
92	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS 1253
93	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	JIS 1253
94	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	JIS 1253

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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
95	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulfur	JIS 1253
96	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS 1253
97	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS 1253
98	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	% Elongation	ASTM E8/E8M
99	MECHANICAL- MECHANICAL PROPERTIES OF METALS	metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	% Elongation	IS 1608 pt1
100	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	% Reduction Area	ASTM E8/E8M
101	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Proof Stress (0.2%)	ASTM E8/E8M
102	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Proof Stress (0.2%)	IS 1608 pt1
103	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Rockwell Hardness - HRBW (Ball 1.5875 mm/Load 100 Kg)	IS 1586 Part 1
104	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Rockwell Hardness -HRBW (Ball 1.5875 mm/Load100Kg)	ASTM E 18
105	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Rockwell Hardness -HRC (Diamond/150 Kg)	IS 1586 Part 1
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Rockwell Hardness -HRC (Diamond/150Kg)	ASTM E 18
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Tensile Strength	ASTM E8/E8M
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Tensile Strength	IS 1608 pt 1

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109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Yield Strength	ASTM E8/E8M
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Yield Strength	IS 1608 pt 1
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic material Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	% Reduction Area	IS 1608 pt1
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic material Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Bend Test (Mandrel Dia. 5,6,8,10,12,14,16,24,30,32,36, 40,44,50,64,75,80,100 mm)	IS 1599
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic material Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Brinell Hardness -HBW (10/3000)	ASTM E 10
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic material Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Brinell Hardness -HBW (10/3000)	IS 1500 Part 1
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel & related Alloys	% Elongation	ASTM A 370
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel & related Alloys	% Reduction Area	ASTM A 370
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel & related Alloys	Bend Test (Mandrel Dia. 5,6,8,10,12,14,16,24,30,32,36, 40,44,50,64,75,80,100 mm)	ASTM A 370
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel & related Alloys	Brinell Hardness -HBW (10/3000)	ASTM A 370
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel & related Alloys	Proof Stress (0.2%)	ASTM A 370
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel & related Alloys	Rockwell Hardness -HRBW (Ball 1.5875 mm/Load 100Kg)	ASTM A 370
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel & related Alloys	Rockwell Hardness -HRC (Diamond/150Kg)	ASTM A 370
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel & related Alloys	Tensile Strength	ASTM A 370

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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
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel & related Alloys	Yield Strength	ASTM A 370
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld & Weldments Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products	Fracture Test (Max applied load 600 kN)	ASME SECTION IX
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld & Weldments Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Bend Test (Mandrel Dia. 5,6,8,10,12,14,16,24,30,32,36, 40,44,50,64,75,80,100 mm)	ASME SECTION IX
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld & Weldments Metallic material (Ferrous materials, alloys & products Other Non-Ferrous metals, alloys & products)	Tensile Strength	ASME SECTION IX