National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MATERIAL TESTING LABORATORY, ORDNANCE FACTORY AMBERNATH, A UNIT OF YANTRA INDIA LIMITED, ORDNANCE FACTORY AMBERNATH, KALYAN - BADLAPUR ROAD, AMBERNATH, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 30/12/2022 to 29/12/2024 **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	ASTM E 1251
2	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E1251
3	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTEM-E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM -E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
11	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
12	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
13	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999
14	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E1999
15	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
16	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
17	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	BS EN 15079
18	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079

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19	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BSEN 15079
20	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079
21	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	BS EN 15079
22	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN 15079
23	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	ASTEM E415
24	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	ASTM E415
25	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	ASTM E415
29	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	ASTM E415
32	CHEMICAL- METALS & ALLOYS	Low alloy Steel	Vanadium	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
34	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
35	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	ASTM E1086
36	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
37	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086

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38	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
39	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
40	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
41	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Copper	IS 2599
42	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Iron	IS 2599
43	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Lead	IS 2599
44	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Tin	IS 2599
45	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast and Wrought products of Ferrous & Non- Ferrous alloys	% Elongation	IS 1608 (Part 1)
46	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast and Wrought products of Ferrous & Non- Ferrous alloys	% Elongation (Tensometer, up to 20 kN, at room temperature)	IS 1608 (Part 1)
47	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast and Wrought products of Ferrous & Non- Ferrous alloys	0.2% Proof Strength (at room temperature)	IS 1608 (Part 1)
48	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast and Wrought products of Ferrous & Non- Ferrous alloys	Bend test	IS 1599
49	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast and Wrought products of Ferrous & Non- Ferrous alloys	Bend test	IS 2768
50	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast and Wrought products of Ferrous & Non- Ferrous alloys	Reverse Bend test	IS 1403
51	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast and Wrought products of Ferrous & Non- Ferrous alloys	Tensile Strength (at room temperature)	IS 1608 (Part 1)
52	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast and Wrought products of Ferrous & Non- Ferrous alloys	Tensile Strength (Tensometer, up to 20kN, at room temperature)	IS 1608 (Part 1)

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53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Cast and Wrought products of Ferrous & Non- Ferrous alloys	Vickers Hardness test (HV10)	IS 1501 (Part 1)
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Cast and Wrought products of Ferrous & Non- Ferrous alloys	Vickers Hardness test (HV30)	IS 1501 (Part 1)
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Cast and Wrought products of Ferrous & Non- Ferrous alloys	Vickers Hardness test (HV5)	IS 1501 (Part 1)
56	MECHANICAL-METALLOGRAPHY TEST	Cast and Wrought products of Ferrous & Non- Ferrous alloys	Grain size estimation by compare method	ASTM E112
57	MECHANICAL-METALLOGRAPHY TEST	Cast and Wrought products of Ferrous & Non- Ferrous alloys	Grain size estimation by compare method	IS 4748
58	MECHANICAL-METALLOGRAPHY TEST	Cast and Wrought products of Ferrous & Non- Ferrous alloys	Macro Examination of Aluminium alloys (Up to magnification 20X)	IS 12573
59	MECHANICAL-METALLOGRAPHY TEST	Cast and Wrought products of Ferrous & Non- Ferrous alloys	Micro examination	ASM Hand book 9th edition Vol. IX 1988