National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MATERIAL TESTING DEPARTMENT (MTD), MACHINE TOOL PROTOTYPE FACTORY, ORDNANCE ESTATE, AMBERNATH, THANE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8042 **Page No** 1 of 3

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- METALS & ALLOYS	Aluminium alloy	Copper	ASTM E 1251-17a
2	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Iron	ASTM E 1251-17a
3	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Lead	ASTM E 1251-17a
4	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Magnesium	ASTM E 1251-17a
5	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Manganese	ASTM E 1251-17a
6	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Silicon	ASTM E 1251-17a
7	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Tin	ASTM E 1251-17a
8	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Titanium	ASTM E 1251-17a
9	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Zinc	ASTM E 1251-17a
10	CHEMICAL- METALS & ALLOYS	Copper base alloy(Brass, Bronze)	Aluminium	BS EN 15079
11	CHEMICAL- METALS & ALLOYS	Copper base alloy(Brass, Bronze)	Iron	BS EN 15079
12	CHEMICAL- METALS & ALLOYS	Copper base alloy(Brass, Bronze)	Lead	BS EN 15079
13	CHEMICAL- METALS & ALLOYS	Copper base alloy(Brass, Bronze)	Manganese	BS EN 15079
14	CHEMICAL- METALS & ALLOYS	Copper base alloy(Brass, Bronze)	Nickel	BS EN 15079
15	CHEMICAL- METALS & ALLOYS	Copper base alloy(Brass, Bronze)	Phosphorous	BS EN 15079
16	CHEMICAL- METALS & ALLOYS	Copper base alloy(Brass, Bronze)	Silicon	BS EN 15079
17	CHEMICAL- METALS & ALLOYS	Copper base alloy(Brass, Bronze)	Tin	BS EN 15079
18	CHEMICAL- METALS & ALLOYS	Copper base alloy(Brass, Bronze)	Zinc	BS EN 15079

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19	CHEMICAL- METALS & ALLOYS	Ferrous alloy (Low alloy steel)	Aluminium	ASTM E 415
20	CHEMICAL- METALS & ALLOYS	Ferrous alloy (Low alloy steel)	Carbon	ASTM E 415
21	CHEMICAL- METALS & ALLOYS	Ferrous alloy (Low alloy steel)	Chromium	ASTM E 415
22	CHEMICAL- METALS & ALLOYS	Ferrous alloy (Low alloy steel)	Copper	ASTM E 415
23	CHEMICAL- METALS & ALLOYS	Ferrous alloy (Low alloy steel)	Manganese	ASTM E 415
24	CHEMICAL- METALS & ALLOYS	Ferrous alloy (Low alloy steel)	Molybdenum	ASTM E 415
25	CHEMICAL- METALS & ALLOYS	Ferrous alloy (Low alloy steel)	Nickel	ASTM E 415
26	CHEMICAL- METALS & ALLOYS	Ferrous alloy (Low alloy steel)	Phosphorous	ASTM E 415
27	CHEMICAL- METALS & ALLOYS	Ferrous alloy (Low alloy steel)	Silicon	ASTM E 415
28	CHEMICAL- METALS & ALLOYS	Ferrous alloy (Low alloy steel)	Sulphur	ASTM E 415
29	CHEMICAL- METALS & ALLOYS	Ferrous alloy (Low alloy steel)	Vanadium	ASTM E 415
30	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	ASTM E 1086
31	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	ASTM E 1086
32	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	ASTM E 1086
33	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	ASTM E 1086
34	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	ASTM E 1086
35	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	ASTM E 1086
36	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous	ASTM E 1086
37	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	ASTM E 1086

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38	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	ASTM E 1086
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous material	% Elongation	IS 1608 Part 1
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous material	0.2 % Proof stress	IS 1608 Part 1
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous material	Brinell Hardness Test (BHN, 10mm/3000 Kg)	IS 1500-Part 1
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous material	Reduction in Area	IS 1608 Part 1
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous material	Rockwell Hardness test (HRC/150 Kg Load)	IS 1586- Part 1
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous & non-ferrous material	Tensile Strength (Load Range: 200 KN)	IS 1608-Part 1
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous material	Yield strength (Load Range: 200 KN)	IS 1608 Part 1