National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : THERMAX LIMITED, MATERIAL TESTING LABORATORY, THERMAX CHOWK, D-13, MIDC, INDUSTRIAL AREA, R.D.AGA ROAD, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 25/04/2023 to 24/04/2025 **Last Amended on** 02/05/2023

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	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	0.2 % Proof Stress	ASME SA 370
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	0.2 % Proof Stress	ASTM A 370
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	0.2 % Proof Stress	IS 1608 (Part 1)
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Charpy Impact test (-80 deg. C to 37 deg. C) (V-Notch)	IS 1757 (Part 1)
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material	Charpy Impact test (-80 deg. C to 37 deg. C) (V-Notch)	ISO 148-1
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Tensile Strength , Load (10kN to 1000kN)	ISO 6892 (Part 1)
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Tensile Strength, Load (10kN to 1000kN)	IS 1608 (Part 1)
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Elongation	ASME SA 370
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Elongation	ASTM A 370
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Elongation	ASTM E8M
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Elongation	IS 1608 (Part 1)
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Elongation	ISO 6892 (Part 1)
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Reduction in Area	ASME SA 370

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14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Reduction in Area	ASTM A 370
15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Reduction in Area	ASTM E8M
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Reduction in Area	IS 1608 (Part 1)
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	% Reduction in Area	ISO 6892 (Part 1)
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	0.2 % Proof Stress	ASTM E8M
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	0.2 % Proof Stress	ISO 6892 (Part 1)
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test	ASME SA 370
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test	ASTM A 370
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test	ASTM E290
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test	IS 1599
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Brinell Hardness	ASME SA 370
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Brinell Hardness	ASTM A 370
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Brinell Hardness	ASTM E10
27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Brinell Hardness	IS 1500 (Part 1)

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28	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Brinell Hardness	ISO 6506 (Part 1)
29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Flaring Test / Drift Expansion	ASME SA 370
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Flaring Test / Drift Expansion	ASTM A370
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Flaring Test / Drift Expansion	IS 2335
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Rockwell Hardness	IS 1586 (Part 1)
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Rockwell Hardness	IS 1586 (Part 1)
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Rockwell Hardness	ISO 6508 (Part 1)
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Rockwell Hardness	ISO 6508 (Part 1)
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength, Load (10kN to 1000kN)	ASME SA 370
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength, Load (10kN to 1000kN)	ASTM A370
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength,Load (10kN to 1000kN)	ASTM E8M
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Vickers Hardness	IS 1501 (Part 1)
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield Strength, Load (10kN to 1000kN)	ASME SA 370
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield Strength, Load (10kN to 1000kN)	ASTM A 370

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42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield Strength, Load (10kN to 1000kN)	ASTM E8M
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield Strength, Load (10kN to 1000kN)	IS 1608 (Part 1)
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Yield Strength, Load (10kN to 1000kN)	ISO 6892 (Part 1)
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials(pipes & Tubes)	Flattening Test	ASME SA 370
46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials(pipes & Tubes)	Flattening Test	ASTM A 370
47	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials(pipes & Tubes)	Flattening Test	IS 2328
48	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded plate	Charpy Impact test (-80 deg. C to 37 deg. C) (V-Notch)	IS 3600 (Part 2)
49	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates	% Elongation	IS 3600 (Part 4)
50	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates	% Reduction in Area	IS 3600 (Part 4)
51	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates	Bend Test	ASTM E190
52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates	Bend Test	IS 3600 (Part 5)
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates	Bend Test	ISO 5173
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates	Tensile Strength, Load (10kN to 1000kN)	ASME Sec IX
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates	Tensile Strength, Load (10kN to 1000kN)	IS 3600 (Part 3)

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56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates	Tensile Strength, Load (10kN to 1000kN)	IS 3600 (Part 4)
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates	Yield Strength, Load (10kN to 1000kN)	IS 3600 (Part 4)
58	MECHANICAL-METALLOGRAPHY TEST	Fusion welded joints	Macro examination for type and location of weld flaw	IS 3600 (Part 9)
59	MECHANICAL-METALLOGRAPHY TEST	Fusion welded joints in steel	Macro examination	IS 7310 (Part 1)
60	MECHANICAL-METALLOGRAPHY TEST	Fusion welded joints in steel	Macro examination (Penetration and freedom from defects)	IS 7318 (Part 1): Appendix A
61	MECHANICAL-METALLOGRAPHY TEST	Steel and welding in steel	Micro Structure Analysis	ASM Handbook Vol.9
62	MECHANICAL-METALLOGRAPHY TEST	Steel sheet, plate and Weldment	Macro Examination	ASTM E340
63	MECHANICAL-METALLOGRAPHY TEST	Weld in metals	Completeness of Fusion, Difference in leg lengths, Concavity, Convexity.	ASME Sec IX QW 183 and 184
64	MECHANICAL-METALLOGRAPHY TEST	Wrought Carbon and Alloy Steel products	Macro Examination	IS 11371