National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MEASURE INDIA CORPORATION PVT LTD (MIC LABS), MIC HOUSE, NO:12-2-41/4, PLOT NO: 41, SRI NAGAR, RAMPALLY, KEESARA (M), HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8945 **Page No** 1 of 5

Validity 03/08/2022 to 02/08/2024 **Last Amended on** 09/05/2023

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 and Non Ferrous Materials, Alloys and Product	Axial High Cycle Fatigue Test temperatures from -150°c to 1000°c (Load upto 100kN)	ASTM E466
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Axial Low Cycle Fatigue Test upto 5Hz (Load 1kN to 90kN) at Room Temperature to 1000°c	ASTM E606/606M
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Bend Test at Room Temperature (Load upto 100kN) (Mandrel Dia: 3, 4, 5, 6, 8, 10, 12, 16, 20, 30, 40 & 60)	ASTM E290
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Bend Test at Room Temperature (Load upto 100kN) (Mandrel Dia: 3, 4, 5, 6, 8, 10, 12, 16, 20, 30, 40 & 60)	IS 1599
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Brinell Hardness(HBW 5/250)	ASTM E10
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Compression Test at Elevated Temperature upto 1000°c (Load upto 100kN)	ASTM E 209
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Compression Test at Room Temperature (Load upto 100kN)	ASTM E9
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Creep, Creep-Rupture and Stress-Rupture Tests of Metallic Materials from Room Temperature to 1000°c (Load upto 100kN)	ASTM E139
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Fatigue Crack growth test from -70°c to 1000°c (Load upto 100kN)	ASTM E647
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Fracture Toughness test (K1c) temperatures from -70°c to 1000°c (Load upto 100kN)	ASTM E399
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Fracture Toughness using K,J and CTOP parameters. temperatures from -70°c to 1000°c (Load upto 100kN)	ASTM E1820
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Impact Test by Charpy Method (Room Temperature - upto (-70°c))	IS 1499

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13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Impact Test by Izod Method (Room Temperature - upto (-70°c))	IS 1598
14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Rockwell Hardness(HRB)	IS 1586 (Part 1)
15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Rockwell Hardness(HRC)	IS 1586 (Part 1)
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (%EL) at Elevated Temperature upto 1000°c (Load upto 100kN)	ASTM E 21
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (%EL) at Low temperature upto -150°c (Load upto 100kN)	IS 1608 Part 03
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (%EL) at Room Temperature (Load upto 100kN)	IS 1608 Part 01
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (%EL) at Room Temperature (Load upto 100kN)	ASTM A 370
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (%EL) at Room Temperature (Load upto 100kN)	ASTM E8/E8M
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (%RA) at Elevated Temperature upto 1000°c (Load upto 100kN)	ASTM E 21
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (%RA) at Low temperature upto -150°c (Load upto 100kN)	IS 1608 Part 03
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (%RA) at Room Temperature (Load upto 100kN)	IS 1608 Part 01
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (%RA) at Room Temperature (Load upto 100kN)	ASTM A 370
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (%RA) at Room Temperature (Load upto 100kN)	ASTM E8/E8M
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (0.2% YS) at Elevated Temperature upto 1000°c (Load upto 100kN)	ASTM E 21

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27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (0.2% YS) at Low temperature upto -150°c (Load upto 100kN)	IS 1608 Part 03
28	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (0.2% YS) at Room Temperature (Load upto 100kN)	IS 1608 Part 01
29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (0.2% YS) at Room Temperature (Load upto 100kN)	ASTM A 370
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (0.2% YS) at Room Temperature (Load upto 100kN)	ASTM E8/E8M
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (UTS) at Elevated Temperature upto 1000°c (Load upto 100kN)	ASTM E 21
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (UTS) at Low temperature upto -150°c (Load upto 100kN)	IS 1608 Part 03
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (UTS) at Room Temperature (Load upto 100kN)	IS 1608 Part 01
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (UTS) at Room Temperature (Load upto 100kN)	ASTM A 370
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (UTS) at Room Temperature (Load upto 100kN)	ASTM E8/E8M
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (Young's Modulus) at Elevated Temperature upto 1000°c (Load upto 100kN)	ASTM E 21
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (Young's Modulus) at Room Temperature (Load upto 100kN)	ASTM E8/E8M
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (YS) at Elevated Temperature upto 1000°c (Load upto 100kN)	ASTM E 21
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (YS) at Low temperature upto -150°c (Load upto 100kN)	IS 1608 Part 03
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (YS) at Room Temperature (Load upto 100kN)	IS 1608 Part 01

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41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (YS) at Room Temperature (Load upto 100kN)	ASTM A 370
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Materials, Alloys and Product	Tensile Test (YS) at Room Temperature (Load upto 100kN)	ASTM E8/E8M
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Product	Brinell Hardness(HBW 5/250)	IS 1500(Part-1)
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Magnesium & Aluminium Alloys	Tensile Test (Young's Modulus) (Load upto 100kN)	ASTM B557
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Magnesium Alloys & Alluminium Alloys	Tensile Test (UTS) at Room Temperature (Load upto 100kN)	ASTM B557
46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Magnesium Alloys & Aluminium Alloys	Tensile Test (%EL) at Room Temperature (Load upto 100kN)	ASTM B557
47	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Magnesium Alloys & Aluminium Alloys	Tensile Test (%RA) at Room Temperature (Load upto 100kN)	ASTM B557
48	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Magnesium Alloys & Aluminium Alloys	Tensile Test (0.2% YS) at Room Temperature (Load upto 100kN)	ASTM B557
49	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Magnesium Alloys & Aluminum Alloys	Tensile Test (YS) at Room Temperature (Load upto 100kN)	ASTM B557
50	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials, Alloys and Product	Brinell Hardness (HBW 5/250)	IS 1500 (Part-1)
51	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Materials, Alloys and Product	Brinell Hardness(HBW 5/250)	ASTM E10
52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Materials, Alloys and Product	Brinell Hardness(HBW 5/250)	IS 1500(Part-1)
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Materials, Alloys and Product	Rockwell Hardness(HRB)	IS 1586 (Part 1)
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Couplers for Mechanical Splices of Bars in Concrete	Static Tensile Test(%EL) (Load upto 1000kN)	IS 1608 Part 01

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55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Couplers for Mechanical Splices of Bars in Concrete	Static Tensile Test(UTS) (Load upto 1000kN)	IS 1608 Part 01
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Couplers for Mechanical Splices of Bars in Concrete	Static Tensile Test(YS) (Load upto 1000kN)	IS 1608 Part 01
57	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Materials, Alloys and Product	Vickers Hardness (HV)	ASTM E92-17
58	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Materials, Alloys and Product	Vickers Hardness (HV)	IS 1501
59	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys and Product	Estimation of Apparent Grain Size	ASTM E112-13
60	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys and Product	Estimation of Apparent Grain Size	IS 4748
61	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys and Product	Metallography and Microstructures	ASM Vol 9
62	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys and Product	Microstructure	ASTM E407-07
63	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys and Product	Microstructure of Graphite in Iron Castings	ASTM A247/A247M-10