National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : METALLURGY LAB, SANSERA ENGINEERING LIMITED, NO:261/C, PLANT 2, BOMMASANDRA INDL. AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6289 **Page No** 1 of 4

Validity 19/01/2023 to 18/01/2025 **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	Carbon & Low Alloy Steel	Aluminum	ASTM E415
2	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Aluminum	IS 8811
3	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Carbon	ASTM E415
4	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Carbon	IS 8811
5	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Chromium	ASTM E415
6	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Chromium	IS 8811
7	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Copper	ASTM E415
8	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Copper	IS 8811
9	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Manganese	ASTM E415
10	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Manganese	IS 8811
11	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Molybdenum	ASTM E415
12	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Molybdenum	IS 8811
13	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Nickel	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Nickel	IS 8811
15	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Phosphorus	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Phosphorus	IS 8811
17	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Silicon	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Silicon	IS 8811

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19	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Sulphur	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Sulphur	IS 8811
21	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Vanadium	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Vanadium	IS 8811
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case hardened and Induction hardened Steels	Estimation of Effective Case Depth (ECD)	IS 6416
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case hardened and Induction hardened Steels/ Quenched & Tempered	Macro Vickers hardness test	IS 1501 (PART 1)
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Products	Brinell Hardness test (HBW/(5mm/750Kgf))	IS 1500 (PART 1)
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Products (Dia 5 to 10mm)	0.2% Proof stress	IS 1608 Part 1
27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products	% Elongation	IS 1608 : PART 1
28	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products	% Elongation	IS 1608 : PART 1
29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products	% Reduction in Area	IS 1608 : PART 1
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products	% Reduction in Area	IS 1608 : PART 1
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products	Brinell Hardness Test (HBW/(10mm/3000Kgf))	IS 1500 (PART 1)
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products	Elongation	IS 1608 Part 1
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products	Macro Vickers Hardness Test (HV10)	IS 1501

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34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products	Reduction in area	IS 1608 Part 1
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products	Rockwell Hardness Test (HRA)	IS 1586 (PART 1)
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products	Rockwell Hardness Test (HRC)	IS 1586 (PART1)
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products (Dia 5 to 10mm)	0.2% Proof stress	IS 1608 Part -1
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products (Dia 5 to 10mm)	Tensile Strength	IS 1608 : PART 1
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products (Dia 5 to 10mm)	Tensile Strength	IS 1608 : PART 1
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products (Dia 5 to 10mm)	Yield Strength	IS 1608 : PART 1
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products (Dia 5 to 10mm)	Yield Strength	IS 1608 : PART 1
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products (Flat sample Width : 12.5 to 20mm)	%0.2 Proof stress	IS 1608 Part 1
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products (Flat sample Width : 12.5 to 20mm)	Tensile strength	IS1608 Part 1
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Products (Flat sample Width : 12.5 to 20mm)	Yield strength	IS 1608 Part1
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels & Prosucts	Rockwell hardness Test (HRC)	IS 1586 (PART 1)
46	MECHANICAL-METALLOGRAPHY TEST	Steels	Inclusion Content	ASTM E45-18a
47	MECHANICAL-METALLOGRAPHY TEST	Steels	Inclusion Content	IS:4163

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48	MECHANICAL-METALLOGRAPHY TEST	Steels & Products	Depth of Decarburization	IS 6396
49	MECHANICAL-METALLOGRAPHY TEST	Steels & Products	Depth of Decarburization	IS 6396
50	MECHANICAL-METALLOGRAPHY TEST	Steels & Products	Grain Size / Austenitic Grain Size (Un-twinned Grain)	IS: 4748