National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SUNFLAG LABORATORY (PART OF SUNFLAG IRON & STEEL CO. LTD.), SUNFLAG IRON AND STEEL CO. LTD., BHANDARA ROAD, BHANDARA, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 14/03/2023 to 13/03/2025 **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	Carbon & Low Alloy Steel	Aluminium	ASTM E415
2	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Aluminium	IS 8811
3	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Boron	ASTM E415
4	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Boron	IS 8811
5	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Calcium	ASTM E415
6	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Carbon	ASTM E415
7	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Carbon	IS 8811
8	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Chromium	ASTM E415
9	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Chromium	IS 8811
10	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Copper	ASTM E415
11	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Copper	IS 8811
12	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Lead	IS 8811
13	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Manganese	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Manganese	IS 8811
15	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Molybdenium	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Molybdenum	IS 8811
17	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Nickel	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Nickel	IS 8811

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19	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Phosphorous	IS 8811
20	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Phosphorus	ASTM E415
21	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Silicon	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Silicon	IS 8811
23	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Sulphur	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Sulphur	IS 8811
25	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Titanium	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Titanium	IS 8811
27	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Vanadium	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Vanadium	IS 8811
29	CHEMICAL- METALS & ALLOYS	Carbon & Sulphur (Combustion Infra Red Absorption Method)	Carbon	ASTM E1019
30	CHEMICAL- METALS & ALLOYS	Carbon & Sulphur (Combustion Infra Red Absorption Method)	Sulphur	ASTM E1019
31	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
32	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
33	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
34	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
35	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
36	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
37	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086

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38	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
39	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenium	IS 9879
40	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
41	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
42	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
43	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
44	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
45	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
46	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
47	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
48	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
49	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	%Elongation	ASTM E8/E8M
50	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	%Reduction Area	ASTM E8/E8M
51	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	0.2 % Proof Stress	ASTM E8/E8M
52	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	0.2 Proof Stress	IS 1608
53	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Bend Test	IS 1599
54	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Brinell Hardness Test	ASTM E10

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55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Brinell Hardness Test (HBW/10mm/3000 Kgf)	IS 1500 Part 1
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Elongation	IS 1608
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Impact Test Charpy V-Notch (-80DegC to 35DegC)	IS 1757
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Impact Test Izod	IS 1598
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Reduction in Area	IS 1608
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Rockwell Hardness Test (HRBW)	ASTM E 18
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Rockwell Hardness Test (HRC)	ASTM E 18
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Rockwell Hardness Test (HRC)	IS 1586 Part 1
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Rockwell Hardness Test (HRC)	IS 1586 Part 1
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Tensile Strength	ASTM E8/E8M
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Ultimate Tensile Strength	IS 1608
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Yield Strength	IS 1608
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon & Alloy Steel	Yield Strength	ASTM E8/E8M
68	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steel	Decarb Depth (Microscopic Method)	IS 6396

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69	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steel	Determination of Inclusion Rating	ASTM E 45
70	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steel	Determination of Inclusion Rating (Method A)	IS 4163
71	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steel	End quench test for Hardenability of steel	ASTM A 255 -10
72	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steel	End quench test for Hardenability of Steel	IS 3848
73	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steel	Estimation of Grain Size by Microscopic Examination	ASTM E 112
74	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steel	Estimation of Grain Size by Microscopic Examination (Camparison Method)	IS 4748
75	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steel	Macro Structural Analysis	ASTM E 340
76	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steel	Macro Structural Analysis	ASTM E 381
77	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steel	Micro Structural Analysis	ASM Handbook Volume 9
78	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steel	Micro Structural Analysis	SEP 1520