National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL LABORATORY, SANMAR MATRIX METALS LIMITED., 87/1, VADUGAPATTI VILLAGE, PUDUKOTTAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 28/06/2021 to 27/06/2023 **Last Amended on** 14/07/2021

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 and Low Alloy Steel	Aluminium	ASTM E415
2	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Aluminium	IS8811
3	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Carbon	ASTM E415
4	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Carbon	IS8811
5	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Chromium	ASTM E415
6	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Chromium	IS8811
7	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Copper	ASTM E415
8	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Copper	IS8811
9	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Manganese	ASTM E415
10	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Manganese	IS8811
11	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Molybdenum	ASTM E415
12	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Molybdenum	IS8811
13	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Nickel	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Nickel	IS8811
15	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Phosphorous	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Phosphorus	IS8811
17	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Silicon	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Silicon	IS8811

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19	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Sulphur	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Sulphur	IS8811
21	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Vanadium	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Vanadium	IS8811
23	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Carbon	ASTM E3047
24	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Chromium	ASTM E3047
25	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Copper	ASTM E3047
26	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Iron	ASTM E3047
27	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Manganese	ASTM E3047
28	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Molybdenum	ASTM E3047
29	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Niobium	ASTM E3047
30	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Phosphorus	ASTM E3047
31	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Silicon	ASTM E3047
32	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Sulphur	ASTM E3047
33	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Tungsten	ASTM E3047
34	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Vanadium	ASTM E3047
35	CHEMICAL- METALS & ALLOYS	Plain Carbon, Low Alloy and Stainless Steel	Nitrogen	ASTM E1019
36	CHEMICAL- METALS & ALLOYS	PMI Analysis(For castings of Low alloy steel, Mild steel, Stainless steel, Duplex Stainless steel & Nickel base alloy steel	Chromium	ASTM E1476

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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
37	CHEMICAL- METALS & ALLOYS	PMI Analysis(For castings of Low alloy steel, Mild steel, Stainless steel, Duplex Stainless steel & Nickel base alloy steel	Copper	ASTM E1476
38	CHEMICAL- METALS & ALLOYS	PMI Analysis(For castings of Low alloy steel, Mild steel, Stainless steel, Duplex Stainless steel & Nickel base alloy steel	Manganese	ASTM E1476
39	CHEMICAL- METALS & ALLOYS	PMI Analysis(For castings of Low alloy steel, Mild steel, Stainless steel, Duplex Stainless steel & Nickel base alloy steel	Molybdenum	ASTM E1476
40	CHEMICAL- METALS & ALLOYS	PMI Analysis(For castings of Low alloy steel, Mild steel, Stainless steel, Duplex Stainless steel & Nickel base alloy steel	Nickel	ASTM E1476
41	CHEMICAL- METALS & ALLOYS	PMI Analysis(For castings of Low alloy steel, Mild steel, Stainless steel, Duplex Stainless steel & Nickel base alloy steel	Niobium	ASTM E1476
42	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
43	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS9879
44	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
45	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS9879
46	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
47	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS9879
48	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
49	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS9879
50	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
51	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS9879
52	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
53	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS9879

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54	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
55	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS9879
56	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
57	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS9879
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS9879
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	IS9879
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	% Elongation	BS EN ISO:6892-1
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	Yield Strength 0.2% Proof stress	BS EN ISO :6892-1
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	Bend Test	ASTM E290
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	Tensile Test- % Elongation	ASTM A370
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	Tensile Test- % Elongation	ASTM E8/E8M
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	Tensile Test- Reduction Area	ASTM A370
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	Tensile Test- Reduction Area	ASTM E8/E8M
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	Tensile Test- Reduction Area	BS EN ISO:6892-1

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69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	Tensile Test- UTS	ASTM A370
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	Tensile Test- UTS	ASTM E8/E8M
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	Tensile Test- UTS	BS EN ISO:6895-1
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	Tensile Test- Yield Strength 0.2% Proof stress	ASTM E8/E8M
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	Yield Strength 0.2% Proof Stress	ASTM A370
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys(Casting)	Brinell Hardness Test	ASTM A370
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys(Casting)	Brinell Hardness Test	ASTM E10
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys(Casting)	Brinell Hardness Test	ASTM E110
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys(Casting)	Brinell Hardness Test	ISO6501-1
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel and Duplex Stainless Steel	Detection of inter metallic Phases	ASTM A923(Method A)
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel and Duplex Stainless Steel	IGC Practice- A	ASTM A262
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel and Duplex Stainless Steel	IGC Practice- B	ASTM A262
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel and Duplex Stainless Steel	IGC Practice- C	ASTM A262
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel and Duplex Stainless Steel	IGC Practice- E	ASTM A262

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83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Charpy "V"Notch Impact Test	ASTM A370
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Charpy "V"Notch Impact Test	ASTM E23
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Steel Products	Bend Test	ASME Section IX
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Steel Products	Bend Test	ASTM E190
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Steel Products	Bend Test	IBR
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Steel Products	Charpy "V"Notch Impact Test	ASME Section IX
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Steel Products	Tensile Test- UTS	ASME Section IX
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Steel Products	Tensile Test- UTS	IBR
91	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Average Grain Size	ASTM E112
92	MECHANICAL-METALLOGRAPHY TEST	METALS AND ALLOYS	Average Grain size(Microscopic comparison method)	ASTM E1382
93	MECHANICAL-METALLOGRAPHY TEST	METALS AND ALLOYS	Average Grain size(Microscopic comparison method)	IS 4748
94	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Ferrite Percentage	ASTM A800
95	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Ferrite Percentage	ASTM E1245
96	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Inclusion rating in steel	ASTM E45
97	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Macro Etch Test	ASTM E340
98	MECHANICAL-METALLOGRAPHY TEST	STEEL	Ferrite Content	ASTM A800

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99	MECHANICAL-METALLOGRAPHY TEST	STEEL	Ferrite Content	ASTM E562
100	MECHANICAL-METALLOGRAPHY TEST	STEEL	Inclusion Rating in Steel	ASTM E45
101	MECHANICAL-METALLOGRAPHY TEST	STEEL	Micro structure Examination	ASM Handbook Vol 09
102	MECHANICAL-METALLOGRAPHY TEST	Welded Steel Products	Macro etch test	ASTM E340