SCOPE OF ACCREDITATION

Laboratory Name : CENTRE FOR FOUNDRY EDUCATION AND RESEARCH, 130, GIDC, ODHAV, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 06/06/2022 to 05/06/2024 **Last Amended on** 04/08/2022

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 Steel	Al	ASTM E 415
2	CHEMICAL- METALS & ALLOYS	Carbon Steel	C	ASTM E 415
3	CHEMICAL- METALS & ALLOYS	Carbon Steel	Cr	ASTM E 415
4	CHEMICAL- METALS & ALLOYS	Carbon Steel	Cu	ASTM E 415
5	CHEMICAL- METALS & ALLOYS	Carbon Steel	Mn	ASTM E 415
6	CHEMICAL- METALS & ALLOYS	Carbon Steel	Mo	ASTM E 415
7	CHEMICAL- METALS & ALLOYS	Carbon Steel	Ni	ASTM E 415
8	CHEMICAL- METALS & ALLOYS	Carbon Steel	P	ASTM E 415
9	CHEMICAL- METALS & ALLOYS	Carbon Steel	S	ASTM E 415
10	CHEMICAL- METALS & ALLOYS	Carbon Steel	Si	ASTM E 415
11	CHEMICAL- METALS & ALLOYS	Carbon Steel	V	ASTM E 415
12	CHEMICAL- METALS & ALLOYS	Cast Iron	C	IS 15338
13	CHEMICAL- METALS & ALLOYS	Cast Iron	Ce	IS 15338
14	CHEMICAL- METALS & ALLOYS	Cast Iron	Cr	IS 15338
15	CHEMICAL- METALS & ALLOYS	Cast Iron	Cu	IS 15338
16	CHEMICAL- METALS & ALLOYS	Cast Iron	Mg	IS 15338
17	CHEMICAL- METALS & ALLOYS	Cast Iron	Mn	IS 15338
18	CHEMICAL- METALS & ALLOYS	Cast Iron	Mo	IS 15338

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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
19	CHEMICAL- METALS & ALLOYS	Cast Iron	Ni	IS 15338
20	CHEMICAL- METALS & ALLOYS	Cast Iron	P	IS 15338
21	CHEMICAL- METALS & ALLOYS	Cast Iron	S	IS 15338
22	CHEMICAL- METALS & ALLOYS	Cast Iron	Si	IS 15338
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Ti	IS 15338
24	CHEMICAL- METALS & ALLOYS	Cast Iron	V	IS 15338
25	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Al	ASTM E 415
26	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	C	ASTM E 415
27	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cr	ASTM E 415
28	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cu	ASTM E 415
29	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Mn	ASTM E 415
30	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Mo	ASTM E 415
31	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Ni	ASTM E 415
32	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	P	ASTM E 415
33	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	S	ASTM E 415
34	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Si	ASTM E 415
35	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	V	ASTM E 415
36	CHEMICAL- METALS & ALLOYS	SG Iron	C	IS 15338
37	CHEMICAL- METALS & ALLOYS	SG Iron	Ce	IS 15338

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Accreditation Standard ISO/IEC 17025:2017

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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
38	CHEMICAL- METALS & ALLOYS	SG Iron	Cr	IS 15338
39	CHEMICAL- METALS & ALLOYS	SG Iron	Cu	IS 15338
40	CHEMICAL- METALS & ALLOYS	SG Iron	Mg	IS 15338
41	CHEMICAL- METALS & ALLOYS	SG Iron	Mn	IS 15338
42	CHEMICAL- METALS & ALLOYS	SG Iron	Mo	IS 15338
43	CHEMICAL- METALS & ALLOYS	SG Iron	Ni	IS 15338
44	CHEMICAL- METALS & ALLOYS	SG Iron	P	IS 15338
45	CHEMICAL- METALS & ALLOYS	SG Iron	S	IS 15338
46	CHEMICAL- METALS & ALLOYS	SG Iron	Si	IS 15338
47	CHEMICAL- METALS & ALLOYS	SG Iron	Ti	IS 15338
48	CHEMICAL- METALS & ALLOYS	SG Iron	V	IS 15338
49	CHEMICAL- METALS & ALLOYS	Stainless steel	C	ASTM E 1086
50	CHEMICAL- METALS & ALLOYS	Stainless steel	Co	ASTM E 1086
51	CHEMICAL- METALS & ALLOYS	Stainless steel	Cr	ASTM E 1086
52	CHEMICAL- METALS & ALLOYS	Stainless steel	Cu	ASTM E 1086
53	CHEMICAL- METALS & ALLOYS	Stainless steel	Mn	ASTM E 1086
54	CHEMICAL- METALS & ALLOYS	Stainless steel	Mo	ASTM E 1086
55	CHEMICAL- METALS & ALLOYS	Stainless steel	Ni	ASTM E 1086
56	CHEMICAL- METALS & ALLOYS	Stainless steel	P	ASTM E 1086

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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
57	CHEMICAL- METALS & ALLOYS	Stainless steel	S	ASTM E 1086
58	CHEMICAL- METALS & ALLOYS	Stainless steel	Si	ASTM E 1086
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Cast Iron, SG Iron, Low Alloy Steel, Stainless Steel)	Brinell Hardness	IS 1500 (Part 1)
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Cast Iron, SG Iron, Low Alloy Steel, Stainless Steel)	Rockwell Hardness	IS 1586 (Part 1)
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Cast Iron, SG Iron, Low Alloy Steel, Stainless Steel)	Rockwell Hardness	IS 1586 (Part 1)
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Cast Iron, SG Iron, Low Alloy Steel, Stainless Steel)	Elongation	IS 1608 (Part 1)
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Cast Iron, SG Iron, Low Alloy Steel, Stainless Steel)	Ultimate Tensile strength	IS 1608 (Part 1)
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Cast Iron, SG Iron, Low Alloy Steel, Stainless Steel)	Yield Strength - 0.2% Proof Strength	IS 1608 (Part 1)
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Cast Iron, SG Iron, Low Alloy Steel, Stainless Steel)	% Reduction in Area	IS 1608 (Part 1)
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Cast Iron, SG Iron, Low Alloy Steel, Stainless Steel)	Bend Test	IS 1599
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Cast Iron, SG Iron, Low Alloy Steel, Stainless Steel)	Yield Strength - 0.5% Proof Strength	IS 1608 (Part 1)
68	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials (S G Iron)	Classification of Graphite Determination of Nodularity & Nodule count in Ductile Iron	ASTM A 247
69	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials (S G Iron)	Classification of Graphite Determination of Nodularity & Nodule count in Ductile Iron	ASTM E 2567:a
70	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials (S G Iron)	Classification of Graphite Determination of Nodularity & Nodule count in Ductile Iron	IS 7754

National Accreditation Board for Testing and Calibration Laboratories

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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
71	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials (S G Iron)	Microscopic Evaluation of Ferrite and Pearlite Matrix	ASM Metals Handbook Volume 9