National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SHIVAM TEST HOUSE, PLOT NO. 58 & 59, FIRST FLOOR, BALAJI COMPLEX, SANJAY COLONY, SECTOR 23, SOHNA MODE, BALLABGARH, FARIDABAD, HARYANA, INDIA

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
Permanent Facility				
1	CHEMICAL- CORROSION TESTS	Metal	Salt Spray Test	ASTM B 117
2	CHEMICAL- CORROSION TESTS	Metal	Salt Spray Test	IS 9844
3	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Cobalt(Co)	ASTM E 1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper(Cu)	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron(Fe)	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead(Pb)	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium(Mg)	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese(Mn)	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon(Si)	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium(Ti)	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Vanadium(V)	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc(Zn)	ASTM E 1251
13	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Chromium(Cr)	ASTM E 1251
14	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon(C)	ASTM E 1999
15	CHEMICAL- METALS & ALLOYS	Cast iron	Chromium(Cr)	ASTM E 1999
16	CHEMICAL- METALS & ALLOYS	Cast iron	Copper(Cu)	ASTM E 1999
17	CHEMICAL- METALS & ALLOYS	Cast iron	Manganese(Mn)	ASTM E 1999
18	CHEMICAL- METALS & ALLOYS	Cast iron	Nickel(Ni)	ASTM E 1999

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19	CHEMICAL- METALS & ALLOYS	Cast iron	Phosphorous(p)	ASTM E 1999
20	CHEMICAL- METALS & ALLOYS	Cast iron	Silicon(Si)	ASTM E 1999
21	CHEMICAL- METALS & ALLOYS	Cast iron	Sulphur(S)	ASTM E 1999
22	CHEMICAL- METALS & ALLOYS	Cast iron	Vanadium(V)	ASTM E 1999
23	CHEMICAL- METALS & ALLOYS	Iron & Steel	Aluminium	JIS G 1253
24	CHEMICAL- METALS & ALLOYS	Iron & Steel	Boron	JIS G 1253
25	CHEMICAL- METALS & ALLOYS	Iron & Steel	Carbon	JIS G 1253
26	CHEMICAL- METALS & ALLOYS	Iron & Steel	Chromium	JIS G 1253
27	CHEMICAL- METALS & ALLOYS	Iron & Steel	Cobalt	JIS G 1253
28	CHEMICAL- METALS & ALLOYS	Iron & Steel	Copper	JIS G 1253
29	CHEMICAL- METALS & ALLOYS	Iron & Steel	Magnesium	JIS G 1253
30	CHEMICAL- METALS & ALLOYS	Iron & Steel	Manganese	JIS G 1253
31	CHEMICAL- METALS & ALLOYS	Iron & Steel	Molybdenum	JIS G 1253
32	CHEMICAL- METALS & ALLOYS	Iron & Steel	Nickel	JIS G 1253
33	CHEMICAL- METALS & ALLOYS	Iron & Steel	Niobium	JIS G 1253
34	CHEMICAL- METALS & ALLOYS	Iron & Steel	Phosphorus	JIS G 1253
35	CHEMICAL- METALS & ALLOYS	Iron & Steel	Silicon	JIS G 1253
36	CHEMICAL- METALS & ALLOYS	Iron & Steel	Sulfur	JIS G 1253
37	CHEMICAL- METALS & ALLOYS	Iron & Steel	Tin	JIS G 1253

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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	Iron & Steel	Titanium	JIS G 1253
39	CHEMICAL- METALS & ALLOYS	Iron & Steel	Tungsten	JIS G 1253
40	CHEMICAL- METALS & ALLOYS	Iron & Steel	Vanadium	JIS G 1253
41	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Aluminium (Al)	ASTM E 415
42	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	ASTM E 415
43	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium (Cr)	ASTM E 415
44	CHEMICAL- METALS & ALLOYS	Low alloy Steel	Cobalt (Co)	ASTM E 415
45	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	ASTM E 415
46	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybedinium (Mo)	ASTM E 415
47	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel (Ni)	ASTM E 415
48	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Phosporous %	ASTM E 415
49	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon%	ASTM E 415
50	CHEMICAL- METALS & ALLOYS	Low alloy steel	Sulphur(S)	ASTM E 415
51	CHEMICAL- METALS & ALLOYS	Low alloy steels	Boron(B)	ASTM E 415
52	CHEMICAL- METALS & ALLOYS	Low alloy steels	Copper (Cu)	ASTM E 415
53	CHEMICAL- METALS & ALLOYS	Low alloy steels	Niobium(Nb)	ASTM E 415
54	CHEMICAL- METALS & ALLOYS	Low alloy steels	Tin(Sn)	ASTM E 415
55	CHEMICAL- METALS & ALLOYS	Low alloy steels	Titanium(Ti)	ASTM E 415
56	CHEMICAL- METALS & ALLOYS	Low alloy steels	Vanadium(V)	ASTM E 415

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57	CHEMICAL- METALS & ALLOYS	Low alloy steels	Zirconium(Zr)	ASTM E 415
58	CHEMICAL- METALS & ALLOYS	stainless steel	Carbon(C)	ASTM E 1086
59	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium(Cr)	ASTM E 1086
60	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper(Cu)	ASTM E 1086
61	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese(Mn)	ASTM E 1086
62	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum(Mo)	ASTM E 1086
63	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel(Ni)	ASTM E 1086
64	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous(P)	ASTM E 1086
65	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon(Si)	ASTM E 1086
66	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur(S)	ASTM E 1086
67	CHEMICAL- METALS & ALLOYS	Steel Product	S	ASTM A 751
68	CHEMICAL- METALS & ALLOYS	Steel Products	Al	ASTM A 751
69	CHEMICAL- METALS & ALLOYS	Steel Products	B	ASTM A 751
70	CHEMICAL- METALS & ALLOYS	Steel Products	C	ASTM A 751
71	CHEMICAL- METALS & ALLOYS	Steel Products	Co	ASTM A 751
72	CHEMICAL- METALS & ALLOYS	Steel Products	Cr	ASTM A 751
73	CHEMICAL- METALS & ALLOYS	Steel Products	Cu	ASTM A 751
74	CHEMICAL- METALS & ALLOYS	Steel Products	Mg	ASTM A 751
75	CHEMICAL- METALS & ALLOYS	Steel Products	Mn	ASTM A 751

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76	CHEMICAL- METALS & ALLOYS	Steel Products	Mo	ASTM A 751
77	CHEMICAL- METALS & ALLOYS	Steel Products	Ni	ASTM A 751
78	CHEMICAL- METALS & ALLOYS	Steel Products	P	ASTM A 751
79	CHEMICAL- METALS & ALLOYS	Steel Products	Si	ASTM A 751
80	CHEMICAL- METALS & ALLOYS	Steel Products	Sn	ASTM A 751
81	CHEMICAL- METALS & ALLOYS	Steel Products	Ti	ASTM A 751
82	CHEMICAL- METALS & ALLOYS	Steel Products	V	ASTM A 751
83	CHEMICAL- METALS & ALLOYS	Steel Products	W	ASTM A 751
84	CHEMICAL- WATER	Construction Water	Acidity(ml of 0.02N NaOH sol used to neutralize 100 ml of water Sample using Phenolphthalein indicator)	IS 3025(Part-22)
85	CHEMICAL- WATER	Construction Water	Alkalinity(ml of 0.02 N H2SO4 sol. used to neutralize 100 ml of water sample using mix indicator)	IS 3025(Part-23)
86	CHEMICAL- WATER	Construction Water	Chlorides	IS 3025(Part-32)
87	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (Part-18)
88	CHEMICAL- WATER	Construction Water	Organic Solids	IS 3025 (Part-18)
89	CHEMICAL- WATER	Construction Water	pH value	IS 3025(Part-11)
90	CHEMICAL- WATER	Construction Water	Sulphates	IS 3025 (Part-24) Sec-1
91	CHEMICAL- WATER	Construction Water	Suspended matter	IS 3025 (Part-17)
92	CHEMICAL- WATER	Drinking Water	Chlorides	IS 3025 (Part-32)
93	CHEMICAL- WATER	Drinking Water	pH value	IS 3025 (Part-11)
94	CHEMICAL- WATER	Drinking Water	Sulphates	IS 3025 (Part-24) Sec-1
95	CHEMICAL- WATER	Drinking Water	Total Dissolved solid	IS 3025 (Part-16)
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend test	ISO 7438

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97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact test U Notch (RT to -196 degree)	ISO 148-1
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact test V Notch (RT to -196 degree)	ISO 148-1
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material Ferrous and Non Ferrous	Charpy Impact test V Notch (RT to -196 degree)	IS 1757(Part 1)
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	% Elongation	ASTM E8/8M
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2% Proof Stress	IS 6892-1
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elongation	ASTM A 370
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elongation	ISO 6892-1
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell (HBW 10/3000)	ISO 6506-1
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Rockwell C Scale	ISO 6508-1
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Rockwell, B Scale	ISO 6508-1
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Reduction Area	ASTM A 370
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Reduction Area	ISO 6892-1
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile strength	ASTM A 370
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Strength	ASTM E8/8M

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111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Strength	ISO 6892-1
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength	ASTM A 370
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength	ASTM E8/8M
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress	ISO 6892-1
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Ferrous & Non Ferrous	0.2 % Proof Stress	IS 1608 (Part-1)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Ferrous & Non Ferrous	Bend Test	IS 1599
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Ferrous & Non Ferrous	Charpy Impact "U" Notch (RT to -196 degree)	IS 1757 Part 1
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Ferrous & Non Ferrous	Elongation%	IS 1608 (Part-1)
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Ferrous & Non Ferrous	Hardness by Brinell (HBW 10/3000)	IS 1500 (Part-1)
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Ferrous & Non Ferrous	Hardness by Rockwell B	IS 1586 (Part-1)
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Ferrous & Non Ferrous	Hardness by Rockwell C	IS 1586 (Part-1)
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Ferrous & Non Ferrous	Izod Impact "V" Notch @ RT	IS 1598
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Ferrous & Non Ferrous	Rebend Test	IS 1786
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Ferrous & Non Ferrous	Reduction Area%	IS 1608 (Part-1)

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125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Ferrous & Non Ferrous	Tensile Strength	IS 1608 (Part-1)
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Ferrous & Non Ferrous	Yield Stress	IS 1608 (Part-1)
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Weight/meter	IS 1786
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Face Bend Test	ASME Section-IX
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Face Bend test	AWS D1.1/D1.1M
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Root Bend Test	ASME Section-IX
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Root Bend Test	AWSD1.1/D1.1M
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Side Bend test	ASME Sec IX
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Side Bend test	AWSD1.1/D1.1M
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Tensile Strength	ASME Section-IX
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Tensile Strength	AWS D1.1/D1.1M
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Weld Penetration test	AWS D8.8M Clause 5
137	MECHANICAL-METALLOGRAPHY TEST	Ferrous material	Determination of case depth by microscopic method	IS 6416
138	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Inter Granular Corrosion Test as per Practice E	ASTM A-262

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139	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, alloys & Product	Inclusion rating	ASTM E 45
140	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Determination of depth of decarb by microscopic method	IS 6396
141	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Determination of Inclusion Rating	IS 4163
142	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Estimation of Grain Size by Microscopic Method	IS 4748
143	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Microstructure Analysis	ASM VOL.9
144	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, alloys & Product	Macro Analysis	IS 11371
145	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & Products	Macro Analysis	IS 13015
146	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & Products	Macro etching testing	ASTM E 381
147	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials. alloys & Product	Grain Size	ASTM E112