National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PHYSI CHEM MATERIAL TESTING LABORATORY, PLOT NO. A-17, GALA NO. G-15, UDYOGSWAMINI PRERANA SANKUL, MIDC AMBAD, NASHIK, MAHARASHTRA, 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	Paint, Powder Coated, Plating parts, Yellow, Blue Galvanised.	Salt Spray Test	ASTM B 117
2	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E1251
3	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Carbon	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Carbon	JIS G 1253
15	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Silicon	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Aluminium	ASTM E415
17	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Niobium	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Aluminium	JIS G1253

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19	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Boron	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Chromium	JIS G 1253
21	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Chromium	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Copper	ASTM E415
23	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Lead	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Lead	JIS G 1253
25	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Molybdenum	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Nickel	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Phosphorus	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Phosphorus	JIS G 1253
29	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Silicon	JIS G 1253
30	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Titanium	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Titanium	JIS G 1253
32	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Vanadium	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Manganese	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Molybdenum	JIS G 1253
35	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Nitrogen	ASTM E415
36	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Nitrogen	JIS G 1253
37	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Vanadium	JIS G 1253

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38	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Arsenic	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Arsenic	JIS G 1253
40	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Boron	JIS G1253
41	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Calcium	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Calcium	JIS G 1253
43	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Copper	JIS G 1253
44	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Manganese	JIS G 1253
45	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Nickel	JIS G 1253
46	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Niobium	JIS G 1253
47	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Sulphur	JIS G 1253
48	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Tin	ASTM E415
49	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low alloy Steels	Tin	JIS G 1253
50	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Aluminum	BS EN 15079
51	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Arsenic	BS EN 15079
52	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Cadmium	BS EN 15079
53	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Iron	BS EN 15079
54	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Magnesium	BS EN 15079
55	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Manganese	BS EN 15079
56	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Nickel	BS EN 15079

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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	Copper & its Alloys	Phosphorous	BS EN 15079
58	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silver	BS EN 15079
59	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Bismuth	BS EN 15079
60	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Chromium	BS EN 15079
61	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	BS EN 15079
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	ASTM E1086
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	ASTM E1086
65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	ASTM E1086
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	JIS G 1253
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	JIS G 1253
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G 1253
69	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM 1086
70	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	ASTM E1086
71	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JIS G 1253
72	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	JIS G 1253
73	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
74	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G 1253
75	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086

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76	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G 1253
77	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	ASTM E1086
78	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	JIS G 1253
79	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
80	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G 1253
81	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G 1253
82	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
83	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G 1253
84	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
85	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G 1253
86	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	JIS G 1253
87	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
88	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
89	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	JIS G 1253
90	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	ASTM E1086
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JIS G 1253
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	ASTM E1086
93	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	JIS G 1253
94	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	JIS G 1253

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95	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS G 1253
96	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS G 1253
97	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS G 1253
98	CHEMICAL- METALS & ALLOYS	Tool Steel	Copper	JIS G 1253
99	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS G 1253
100	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS G 1253
101	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	JIS G 1253
102	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	JIS G 1253
103	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS G 1253
104	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS G 1253
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Tensile Test - Ultimate Tensile Test	ASTM A370
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous and Welded in metals	Bend Test	ASME SEC IX
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous and Welded in metals	Tensile Test - Ultimate Tensile Test	ASME SEC IX
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals	Tensile Test - Reduction in Area	IS 1608-PART-1
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals	Bend Test	IS 1599
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals	Tensile Test - Elongation	IS 1608-PART-1

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111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals	Tensile Test - Proof Stress	IS 1608-PART-1
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals	Tensile Test - Yield Stress	IS 1608-PART-1
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Bend Test	ASTM A370
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Tensile Test - Elongation	ASTM A 370
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Tensile Test - Proof Stress	ASTM A370
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Tensile Test - Reduction in Area	ASTM A 370
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Tensile Test - Ultimate Tensile Test	IS 1608-PART-1
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Tensile Test - Yield Stress	ASTM A370
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys Ferrous & Non Ferrous	Brinell Hardness Test	IS:1500(Part-1, 4)
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys Ferrous & Non Ferrous	Rockwell Hardness Test	IS 1586 -Part-1
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys Ferrous & Non Ferrous	Vickers Hardness Test	IS:1501 -Part-1,4
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys Ferrous & Non Ferrous	Vickers Hardness Test	IS:1501-Part-1,4
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys Ferrous & Non Ferrous	Brinell Hardness Test	IS:1500-Part-1, 4
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys Ferrous & Non Ferrous	Rockwell Hardness Test	IS 1586 -Part-1

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125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys Ferrous & Non Ferrous	Rockwell Hardness Test	IS 1586 -Part-1
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys Ferrous & Non Ferrous	Vickers Hardness Test	IS:1501-Part-1,4
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipes & Tubes	Crushing Test	ASTM A370
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipes & Tubes	Crushing Test	IS 3074
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipes & Tubes	Drift Expansion Test	ASTM A370
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipes & Tubes	Drift Expansion Test	IS 2335
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipes & Tubes	Flattening Test	ASTM A 370
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipes & Tubes	Flattening Test	IS 2328
133	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steels	Depth of Decarburized Layer	IS 6396
134	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steels	Effective Case Depth by Hardness Method	IS 6416
135	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steels	Effective Case Depth by Microscopic Method	IS 6416
136	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steels	Estimation of Grain size by comparison Method	IS 4748
137	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steels	Inclusion Rating (Method A)	IS 4163
138	MECHANICAL-METALLOGRAPHY TEST	Carbon & Alloy Steels	Microstructure Analysis	ASM Handbook (Volume-9)
139	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure Analysis	IS 7754
140	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metal, Alloys & Weld Metal	Macrostructure Analysis	ASME SEC IX

SCOPE OF ACCREDITATION

Laboratory Name :	PHYSI CHEM MATERIAL TESTING LABORATORY, PLOT NO. A-17, GALA NO. G-15, UDYOGSWAMINI PRERANA SANKUL, MIDC AMBAD, NASHIK, MAHARASHTRA, INDIA		
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141	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metal, Alloys & Weld Metal	Macrostructure Analysis	IS 11371