National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : YAMUNANAGAR ENGINEERING CLUSTER PRIVATE LIMITED (TESTING LABORATORY), VPO RATTANGARH, DELHI ROAD, YAMUNANAGAR, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11364 **Page No** 1 of 9

Validity 07/02/2023 to 06/02/2025 **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- CORROSION TESTS	Metal & Alloys	Resistance to Corrosion	ASTM B117
2	CHEMICAL- CORROSION TESTS	Metal & Alloys	Resistance to Corrosion	IS 9844
3	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
4	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	JIS G 1253
5	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
6	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	JIS G 1253
7	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
8	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	JIS G 1253
9	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
10	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	JIS G 1253
11	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
12	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	JIS G 1253
13	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999
14	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	JIS G 1253
15	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E1999
16	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	JIS G 1253
17	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
18	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	JIS G 1253

SCOPE OF ACCREDITATION

Laboratory Name : YAMUNANAGAR ENGINEERING CLUSTER PRIVATE LIMITED (TESTING LABORATORY), VPO RATTANGARH, DELHI ROAD, YAMUNANAGAR, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11364 **Page No** 2 of 9

Validity 07/02/2023 to 06/02/2025 **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
19	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
20	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	JIS G 1253
21	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E1999
22	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	JIS G 1253
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E1999
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	JIS G 1253
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E1999
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	JIS G 1253
27	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	ASTM E415
29	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 228 (Part 1)
30	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 228 (Part 6)
32	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	ASTM E415
35	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 228 (Part 2)
36	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	ASTM E415
37	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	IS 228 (Part 7)

SCOPE OF ACCREDITATION

Laboratory Name : YAMUNANAGAR ENGINEERING CLUSTER PRIVATE LIMITED (TESTING LABORATORY), VPO RATTANGARH, DELHI ROAD, YAMUNANAGAR, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11364 **Page No** 3 of 9

Validity 07/02/2023 to 06/02/2025 **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
38	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	IS 228 (Part 5)
40	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	ASTM E415
41	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	IS 228 (Part 3)
42	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E415
43	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 228 (Part 8)
44	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	ASTM E415
45	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	IS 228 (Part 9)
46	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	ASTM E415
47	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
48	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (Part 1)
49	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G 1253
50	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
51	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 228 (Part 6)
52	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G 1253
53	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
54	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G 1253
55	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
56	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 228 (Part 2)

SCOPE OF ACCREDITATION

Laboratory Name : YAMUNANAGAR ENGINEERING CLUSTER PRIVATE LIMITED (TESTING LABORATORY), VPO RATTANGARH, DELHI ROAD, YAMUNANAGAR, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11364 **Page No** 4 of 9

Validity 07/02/2023 to 06/02/2025 **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
57	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G 1253
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 228 (Part 7)
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G 1253
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 228 (Part 5)
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G 1253
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 228 (Part 3)
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	JIS G 1253
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 (Part 8)
69	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G 1253
70	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
71	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 228 (Part 9)
72	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	JIS G 1253
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & Its Alloys	% Elongation	ASTM E8/E8M
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & Its Alloys	% Elongation	IS 1608 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : YAMUNANAGAR ENGINEERING CLUSTER PRIVATE LIMITED (TESTING LABORATORY), VPO RATTANGARH, DELHI ROAD, YAMUNANAGAR, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11364 **Page No** 5 of 9

Validity 07/02/2023 to 06/02/2025 **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
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Its Alloys	Micro Vickers Hardness Test (HV1)	ASTM E384
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Its Alloys	Micro Vickers Hardness Test (HV1)	IS 1501 (Part 1)
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Its Alloys	Rockwell Hardness Test (HRBW)	IS 1586 (Part 1)
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & its Alloys	Tensile Strength	ASTM E8/E8M
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Its Alloys	Tensile Strength	IS 1608 (Part 1)
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & its Alloys	Yield Strength	ASTM E8/E8M
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Its Alloys	Yield Strength	IS 1608 (Part 1)
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Deformed Steel Bars	Mass per Meter	IS 1786
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Deformed Steel Bars	Rebend Test	IS 1786
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	% Elongation	ASTM E21
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, Alloys & Products	% Elongation	ASTM E8/E8M
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	% Elongation	BS EN ISO 6892-1
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	% Elongation	BS EN ISO 6892-2
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	% Elongation	IS 1608 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : YAMUNANAGAR ENGINEERING CLUSTER PRIVATE LIMITED (TESTING LABORATORY), VPO RATTANGARH, DELHI ROAD, YAMUNANAGAR, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11364 **Page No** 6 of 9

Validity 07/02/2023 to 06/02/2025 **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
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	% Elongation	IS 1608 (Part 2)
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Bend Test	IS 1599
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Brinell Hardness Test (10/3000)	ASTM E10
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Brinell Hardness Test (10/3000)	IS 1500 (Part 1)
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Brinell Hardness Test (5/750)	ASTM E10
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Brinell Hardness Test (5/750)	IS 1500 (Part 1)
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy Impact Test (Ambient to -60 degree Celsius)	BS EN ISO 148-1
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy Impact Test (Ambient to -60 degree Celsius)	IS 1757
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Izod Impact Test (Ambient to -60 degree Celsius)	IS 1598
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Micro Vickers Hardness Test (HV1)	ASTM E384
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Micro Vickers Hardness Test (HV1)	IS 1501 (Part 1)
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	ASTM E8/E8M
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	BS EN ISO 6892-1
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	IS 1608 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : YAMUNANAGAR ENGINEERING CLUSTER PRIVATE LIMITED (TESTING LABORATORY), VPO RATTANGARH, DELHI ROAD, YAMUNANAGAR, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11364 **Page No** 7 of 9

Validity 07/02/2023 to 06/02/2025 **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
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (Scale B)	ASTM E18
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (Scale B)	IS 1586 (Part 1)
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (Scale C)	ASTM E18
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (Scale C)	IS 1586 (Part 1)
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Tensile Strength	ASTM E21
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Tensile Strength	ASTM E8/E8M
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Tensile Strength	BS EN ISO 6892-1
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Tensile Strength	BS EN ISO 6892-2
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Tensile Strength	IS 1608 (Part 1)
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Tensile Strength	IS 1608 (Part 2)
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Vickers Hardness Test (HV10)	ASTM E92
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Vickers Hardness Test (HV10)	BS EN ISO 6507-1
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Vickers Hardness Test (HV10)	IS 1501 (Part 1)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength	ASTM E8/E8M

SCOPE OF ACCREDITATION

Laboratory Name : YAMUNANAGAR ENGINEERING CLUSTER PRIVATE LIMITED (TESTING LABORATORY), VPO RATTANGARH, DELHI ROAD, YAMUNANAGAR, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11364 **Page No** 8 of 9

Validity 07/02/2023 to 06/02/2025 **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
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength	BS EN ISO 6892-1
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength	IS 1608 (Part 1)
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Bend Test	IS 1599
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals, Alloys & Products	Rockwell Hardness Test (HRBW)	ASTM E18
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	% Elongation	ASTM A370
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Reduction Area	ASTM A370
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Strength	ASTM A370
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Yield Strength	ASTM A370
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Specimen	Face Bend / Root Bend / Side Bend Test	BS EN ISO 5173
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Specimen	Fracture Test	BS EN ISO 9017
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Fracture Test	ASME IX
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Guided Face, Root and Side Bend Test	ASME Section IX
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Macro Examination	ASME Section IX
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Tensile Strength	ASME Section IX

SCOPE OF ACCREDITATION

Laboratory Name :	YAMUNANAGAR ENGINEERING CLUSTER PRIVATE LIMITED (TESTING LABORATORY), VPO RATTANGARH, DELHI ROAD, YAMUNANAGAR, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-11364	**Page No**	9 of 9
Validity	07/02/2023 to 06/02/2025	**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
131	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Average Grain Size	ASTM E112
132	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Average Grain Size	IS 4748
133	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Macroscopic Examination	ASTM E381
134	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Microstructure Analysis	ASM Handbook Volume 9
135	MECHANICAL-METALLOGRAPHY TEST	Steel	Case Depth (by using Microscopic Test Method)	IS 6416
136	MECHANICAL-METALLOGRAPHY TEST	Weld Specimen	Macroscopic Examination	BS EN ISO 17639
137	MECHANICAL-METALLOGRAPHY TEST	Weld Specimen	Microscopic Examination	BS EN ISO 17639