National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : UNIVERSAL INSTRUMENTS (TESTING DIVISION), PLOT NO. G 43/1&2, G44/1&2, G-BLOCK AJANTA NAGAR, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9712 **Page No** 1 of 7

Validity 28/07/2021 to 27/07/2023 **Last Amended on** 30/03/2023

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	Metals and Alloys	Salt Spray Test	ASTM B 117
2	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Cadmium (Cd)	UITD/CHEM/SOP/19
3	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Chromium (Cr)	ASTM E 1251
4	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Copper (Cu)	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Iron (Fe)	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Lead (Pb)	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Magnesium (Mg)	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Manganese (Mn)	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Nickel (Ni)	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Silicon (Si)	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Tin (Sn)	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Titanium (Ti)	ASTM E 1251
13	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Zinc (Zn)	ASTM E 1251
14	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Aluminium (Al)	ASTM E415
15	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Aluminium (Al)	IS 8811
16	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Arsenic (As)	ASTM E 415
17	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Boron (B)	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Carbon (C)	ASTM E415

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9712 **Page No** 2 of 7

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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	Carbon Steel (low carbon, medium carbon & high carbon steel)	Carbon (C)	IS 8811
20	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Chromium (Cr)	ASTM E415
21	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Chromium (Cr)	IS 8811
22	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Cobalt (Co)	ASTM E 415
23	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Copper (Cu)	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Copper (Cu)	IS 8811
25	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Manganese (Mn)	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Manganese (Mn)	IS 8811
27	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Molybdenum (Mo)	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Molybdenum (Mo)	IS 8811
29	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nickel (Ni)	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nickel (Ni)	IS 8811
31	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Niobium (Nb)	ASTM E415:
32	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nitrogen (N)	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Phosphorous (P)	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Phosphorous (P)	IS 8811
35	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Silicon (Si)	ASTM E415
36	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Silicon (Si)	IS 8811
37	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Sulphur (S)	ASTM E415

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9712 **Page No** 3 of 7

Validity 28/07/2021 to 27/07/2023 **Last Amended on** 30/03/2023

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	Carbon Steel (low carbon, medium carbon & high carbon steel)	Sulphur (S)	IS 8811
39	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Tin (Sn)	ASTM E415
40	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Tin (Sn)	IS 8811
41	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Titanium (Ti)	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Titanium (Ti)	IS 8811
43	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Vanadium (V)	ASTM E415
44	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Vanadium (V)	IS 8811
45	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon (C)	ASTM E 1999
46	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium (Cr)	ASTM E 1999
47	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper (Cu)	ASTM E 1999
48	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese (Mn)	ASTM E 1999
49	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum (Mo)	ASTM E 1999
50	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel (Ni)	ASTM E 1999
51	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus (P)	ASTM E 1999
52	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon (Si)	ASTM E 1999
53	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur (S)	ASTM E 1999
54	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin (Sn)	ASTM E 1999
55	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium (Ti)	ASTM E 1999
56	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium (V)	ASTM E 1999

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9712 **Page No** 4 of 7

Validity 28/07/2021 to 27/07/2023 **Last Amended on** 30/03/2023

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	Alluminium (Al)	BS EN 15079
58	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony (Sb)	BS EN 15079
59	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic (As)	BS EN 15079
60	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth (Bi)	BS EN 15079
61	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cobalt (Co)	BS EN 15079
62	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron (Fe)	BS EN 15079
63	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead (Pb)	BS EN 15079
64	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese (Mn)	BS EN 15079
65	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel (Ni)	BS EN 15079
66	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus (P)	BS EN 15079
67	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon (Si)	BS EN 15079
68	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulphur (S)	BS EN 15079
69	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin (Sn)	BS EN 15079
70	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc (Zn)	BS EN 15079
71	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Alluminium (Al)	ASTM E 3047
72	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon (C)	ASTM E 3047
73	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium (Cr)	ASTM E 3047
74	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt (Co)	ASTM E 3047
75	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper (Cu)	ASTM E 3047

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9712 **Page No** 5 of 7

Validity 28/07/2021 to 27/07/2023 **Last Amended on** 30/03/2023

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
76	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron (Fe)	ASTM E 3047
77	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese (Mn)	ASTM E 3047
78	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum (Mo)	ASTM E 3047
79	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium (Nb)	ASTM E 3047
80	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorus (P)	ASTM E 3047
81	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon (Si)	ASTM E 3047
82	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulphur (S)	ASTM E 3047
83	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium (Ti)	ASTM E 3047
84	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tungsten (W)	ASTM E 3047
85	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Vanadium (V)	ASTM E 3047
86	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon (C)	ASTM E 1086
87	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon (C)	IS 9879
88	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium (Cr)	ASTM E 1086
89	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium (Cr)	IS 9879
90	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper (Cu)	ASTM E 1086
91	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper (Cu)	IS 9879
92	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese (Mn)	ASTM E 1086
93	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese (Mn)	IS 9879
94	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum (Mo)	ASTM E 1086

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9712 **Page No** 6 of 7

Validity 28/07/2021 to 27/07/2023 **Last Amended on** 30/03/2023

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
95	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum (Mo)	IS 9879
96	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel (Ni)	ASTM E 1086
97	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel (Ni)	IS 9879
98	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous (P)	ASTM E 1086
99	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous (P)	IS 9879
100	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon (Si)	ASTM E 1086
101	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon (Si)	IS 9879
102	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur (S)	ASTM E 1086
103	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur (S)	IS 9879
104	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Aluminium (Al)	ASTM E 2994
105	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Chromium (Cr)	ASTM E 2994
106	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Copper (Cu)	ASTM E 2994
107	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Iron (Fe)	ASTM E 2994
108	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Molybdenum (Mo)	ASTM E 2994
109	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Nickel (Ni)	ASTM E 2994
110	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Silicon (Si)	ASTM E 2994
111	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Tin (Sn)	ASTM E 2994
112	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Vanadium (V)	ASTM E 2994-16
113	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Zirconium (Zr)	ASTM E 2994

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9712 **Page No** 7 of 7

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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
114	CHEMICAL- METALS & ALLOYS	Tool steel	Carbon (C)	JIS G 1253
115	CHEMICAL- METALS & ALLOYS	Tool steel	Chromium (Cr)	JIS G 1253
116	CHEMICAL- METALS & ALLOYS	Tool steel	Cobalt (Co)	JIS G 1253
117	CHEMICAL- METALS & ALLOYS	Tool steel	Manganese (Mn)	JIS G 1253
118	CHEMICAL- METALS & ALLOYS	Tool steel	Molybdenum (Mo)	JIS G 1253
119	CHEMICAL- METALS & ALLOYS	Tool steel	Phosphorus (P)	JIS G 1253
120	CHEMICAL- METALS & ALLOYS	Tool steel	Silicon (Si)	JIS G 1253
121	CHEMICAL- METALS & ALLOYS	Tool steel	Sulphur (S)	JIS G 1253
122	CHEMICAL- METALS & ALLOYS	Tool steel	Tin (Sn)	JIS G 1253
123	CHEMICAL- METALS & ALLOYS	Tool steel	Tungsten (W)	JIS G 1253
124	CHEMICAL- METALS & ALLOYS	Tool steel	Vanadium (V)	JIS G 1253
125	MECHANICAL-METALLOGRAPHY TEST	CAST IRON	GRAPHITE TYPE , DISTRIBUTION , SIZE , NODULARITY & NODULE COUNT	ASTM A 247
126	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	GRAPHITE TYPE , DISTRIBUTION , SIZE , NODULARITY & NODULE COUNT	IS 7754
127	MECHANICAL-METALLOGRAPHY TEST	Ferrous material	Grain Size measurement	ASTM E 112
128	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	MICROSTRUCTURAL ANALYSIS. and PHASE IDENTIFICATION .	ASM HANDBOOK VOL.9
129	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Non-metallic Inclusion content of steel	ASTM E 45 (method A)
130	MECHANICAL-METALLOGRAPHY TEST	Steels	Grain Size Measurement	IS 4748