National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : METAL ANALYSIS & SERVICES PVT. LTD., 219/233/201, BUSSA UDYOG BHAVAN, T.J ROAD, MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6680 **Page No** 1 of 14

Validity 27/12/2022 to 26/12/2024 **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- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coatings	Mass of zinc coating on zinc coated iron and steel	IS 6745
2	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminium	ASTM E415
3	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminium	IS 8811
4	CHEMICAL- METALS & ALLOYS	Alloy steel	Boron	ASTM E415
5	CHEMICAL- METALS & ALLOYS	Alloy steel	Boron	IS 8811
6	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	ASTM E415
7	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	IS 8811
8	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	ASTM E415
9	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	IS 8811
10	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	ASTM E415
11	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	IS 8811
12	CHEMICAL- METALS & ALLOYS	Alloy steel	Lead	ASTM E415
13	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	IS 8811
15	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	IS 8811
17	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickel	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickel	IS 8811

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6680 **Page No** 2 of 14

Validity 27/12/2022 to 26/12/2024 **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	Alloy steel	Niobium	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Alloy steel	Niobiuum	IS 8811
21	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorus	IS 8811
22	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphrous	ASTM E415
23	CHEMICAL- METALS & ALLOYS	Alloy steel	Silcon	IS8811
24	CHEMICAL- METALS & ALLOYS	Alloy steel	Silicon	ASTM E415
25	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulphur	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulphur	IS 8811
27	CHEMICAL- METALS & ALLOYS	Alloy steel	Titanium	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Alloy steel	Titanium	IS 8811
29	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	IS 8811
31	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	ASTM E1251
32	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E1251
33	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E1251
34	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E1251
35	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM E1251
36	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	ASTM E1251
37	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Nickel	ASTM E1251

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6680 **Page No** 3 of 14

Validity 27/12/2022 to 26/12/2024 **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	Aluminium & its Alloys	Silicon	ASTM E1251
39	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Tin	ASTM E1251
40	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	ASTM E1251
41	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	ASTM E1251
42	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc	ASTM E1251
43	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zirconium	ASTM E1251
44	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BS EN 15079
45	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	BS EN 15079
46	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	BS EN 15079
47	CHEMICAL- METALS & ALLOYS	Copper & its alloys	cobalt	BS EN 15079
48	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079
49	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BS EN 15079
50	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079
51	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079
52	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	BS EN 15079
53	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN 15079
54	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silver	BS EN 15079
55	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulphur	BS EN 15079
56	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN 15079

SCOPE OF ACCREDITATION

Laboratory Name : METAL ANALYSIS & SERVICES PVT. LTD., 219/233/201, BUSSA UDYOG BHAVAN, T.J ROAD, MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6680 **Page No** 4 of 14

Validity 27/12/2022 to 26/12/2024 **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	Copper & its alloys	Zinc	BS EN 15079
58	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Chrominum (Cr)	API 578 (PMI By XRF)
59	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Chrominum (Cr)	API Practice 578 (PMI By XRF)
60	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Cobalt (Co)	API 578 (PMI By XRF)
61	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Cobalt (Co)	API Practice 578 (PMI By XRF)
62	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Copper (Cu)	API 578 (PMI By XRF)
63	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Copper (Cu)	API Practice 578 (PMI By XRF)
64	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Iron (Fe)	API 578 (PMI By XRF)
65	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Iron (Fe)	API Practice 578 (PMI By XRF)
66	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Manganese (Mn)	API 578 (PMI By XRF)
67	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Manganese (Mn)	API Practice 578 (PMI By XRF)
68	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Molybdenum (Mo)	API 578 (PMI By XRF)
69	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Molybdenum (Mo)	API Practice 578 (PMI By XRF)
70	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Nickel (Ni)	API 578 (PMI By XRF)
71	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Nickel (Ni)	API Practice 578 (PMI By XRF)
72	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Niobium (Nb)	API 578 (PMI By XRF)
73	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Niobium (Nb)	API Practice 578 (PMI By XRF)
74	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Titanium (Ti)	API 578 (PMI By XRF)
75	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Titanium (Ti)	API Practice 578 (PMI By XRF)

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6680 **Page No** 5 of 14

Validity 27/12/2022 to 26/12/2024 **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
76	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Tungsten (W)	API Practice 578 (PMI By XRF)
77	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Vandium (V)	API 578 (PMI By XRF)
78	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Vandium (V)	API Practice 578 (PMI By XRF)
79	CHEMICAL- METALS & ALLOYS	Iron and its Alloy	Tungsten (W)	API 578 (PMI By XRF)
80	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
81	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
82	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
83	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
84	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
85	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
86	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
87	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
88	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
89	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
90	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
92	CHEMICAL- METALS & ALLOYS	stainless steel	Niobium	SOP No.MAS/QS/16 Issue No.01, 23 March
93	CHEMICAL- METALS & ALLOYS	Stainless steel	Nitrogen	SOP No.MAS/QS/16 Issue No.01, 23 March
94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6680 **Page No** 6 of 14

Validity 27/12/2022 to 26/12/2024 **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
95	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
97	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
98	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
99	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
100	CHEMICAL- METALS & ALLOYS	Stainless steel	Titanium	SOP No.MAS/QS/16 Issue No.01, 23 March
101	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	SOP No.MAS/QS/15 Issue No.01 October 15
102	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	SOP No.MAS/QS/15 Issue No.01 October 15
103	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	SOP No.MAS/QS/15 Issue No.01 October 15
104	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	SOP No.MAS/QS/15 Issue No.01 October 15
105	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	SOP No.MAS/QS/15 Issue No.01 October 15
106	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	SOP No.MAS/QS/15 Issue No.01 October 15
107	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	SOP No.MAS/QS/15 Issue No.01 October 15
108	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	SOP No.MAS/QS/15 Issue No.01 October 15
109	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	SOP No.MAS/QS/15 Issue No.01 October 15
110	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	SOP No.MAS/QS/15 Issue No.01 October 15
111	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel	Proof Load Test on Nut	IS 1367 (Part 6)
112	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Elongation	ASTM E8/E8M

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6680 **Page No** 7 of 14

Validity 27/12/2022 to 26/12/2024 **Last Amended on** -

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113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Elongation	IS 1608 (Part 1)
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Reduction	ASTM E8/E8M
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Reduction Area	IS 1608 (Part 1)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2% Proof Stress	IS 1608 (Part 1)
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	IS 1599
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Testing (HBW / Dia 10mm / Load 3000Kg)	ASTM E10
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Testing (HBW / Dia 10mm / Load 3000Kg)	IS 1500 (Part 1)
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy V notch Impact Test / (Temperature: Ambient to -100°C & -196°C)	ISO 148 (Part 1)
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Impact Test - IZOD	IS 1598 (Part 1)
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Impact Test - Charpy V Notch / (Temperature: Ambient to -100°C & -196°C)	IS 1757 (Part 1)
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Impact Test (Charpy V Notch) / (Temperature: Ambient to -100°C & -196°C)	IS 1757 (Part 1)
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Impact Test (Charpy V-Notch) / (Temperature: Ambient to -100°C & -196°C)	ISO 148 (Part 1)
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test (HRBW)	IS 1586 (Part 1)
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test(HRBW)	ASTM E18

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6680 **Page No** 8 of 14

Validity 27/12/2022 to 26/12/2024 **Last Amended on** -

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127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Testing (HRC)	IS 1586 (Part 1)
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Testing(HRC)	ASTM E18
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	ASTM E8/E8M
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	IS 1608 (Part 1)
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Testing (HV10)	ASTM E92
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Testing (HV5)	IS 1501 (Part 1)
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Testing(HV10)	IS 1501 (Part 1)
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Testing(HV5)	ASTM E92
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength	IS 1608(Part-1)
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength by load under extension (software)	ASTM E8/E8M
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress(by 0.2% off set method)	ASTM E8/E8M
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Weld & Welded test Specimen	Bend Test	AWS D1.1
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Weld & Welded test Specimen	Bend Test (Face Bend, Root Bend, Side Bend).	ASME SEC IX
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Weld & Welded test Specimen	Fracture Test	ASME SEC IX

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6680 **Page No** 9 of 14

Validity 27/12/2022 to 26/12/2024 **Last Amended on** -

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141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Weld & Welded test Specimen	Macro Etch Test	AWS D1.1
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Weld & Welded test Specimen	Macro Structural Analysis	ASME SEC IX
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Weld & Welded test Specimen	Tensile (Transverse & Longitudinal) Ultimate Tensile Strength	AWS D 1.1
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Weld & Welded test Specimen	Tensile (Transverse & Longitudinal) Ultimate Tensile Strength	ASME SEC IX
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Weld & Welded test Specimen	Transverse Tensile Strength	ASME SEC IX
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tubes	Flaring Test	IS 2335
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tubes	Flattening Test	IS 2328
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Bend Test	ASTM A370
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Flaring Test	ASTM A370
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Flattening Test	ASTM A370
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Weld & Welded test Specimen	Bend Test (Face Bend, Root Bend & Side Bend)	IACS UR W28
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Weld & Welded test Specimen	Bend Test (Face Bend, Root Bend & Side Bend)	IACS UR W32
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Weld & Welded test Specimen	Fracture Test	IACS UR W28
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Weld & Welded test Specimen	Fracture Test	IACS UR W32

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6680 **Page No** 10 of 14

Validity 27/12/2022 to 26/12/2024 **Last Amended on** -

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155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Weld & Welded test Specimen	Macro Structural Analysis	IACS UR W28
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Weld & Welded test Specimen	Macro Structural Analysis	IACS UR W32
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Weld & Welded test Specimen	Tensile (Transverse & Longitudinal) Ultimate Tensile Strength	IACS UR W28
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Weld & Welded test Specimen	Tensile (Transverse & Longitudinal) Ultimate Tensile Strength	IACS UR W32
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Weld & Welded test Specimen	Vickers Hardness Testing(HV10)	IACS UR W28
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Weld & Welded test Specimen	Vickers Hardness Testing(HV5)	IACS UR W28
161	MECHANICAL-METALLOGRAPHY TEST	Aluminum and its Alloys	Microstructure Analysis	IS 7739 (Part 3)-1975
162	MECHANICAL-METALLOGRAPHY TEST	Austenitc and Duplex Stainless Steel	Determining Volume fraction by Systematic Manual Point Count Method	ASTM E562
163	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels	ASTM A262 (Practice A)
164	MECHANICAL-METALLOGRAPHY TEST	Austenitic & Duplex Stainless Steel	Ferrite Measurement By Ferritoscope	ASTM A800 / 800M
165	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels (Practice B)	ASTM A262
166	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels (Practice C)	ASTM A262
167	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels(Practice E)	ASTM A262

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6680 **Page No** 11 of 14

Validity 27/12/2022 to 26/12/2024 **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
168	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	Determination of resistance to Intergranular Corrosion of Stainless Steels	EN ISO 3651-2 (Method A)
169	MECHANICAL-METALLOGRAPHY TEST	Cast Iron (SG & Grey Cast Iron)	Designation of the MIcrostructure of graphite (Form Distribution & Sizes) in Cast Iron By Comparison Method	IS 7754
170	MECHANICAL-METALLOGRAPHY TEST	Cast Iron (SG & Grey Cast Iron)	Designation of the Microstructure of graphite (Form, Distribution & Sizes) in Cast Iron By Comparison Method.	ASTM A247
171	MECHANICAL-METALLOGRAPHY TEST	Copper & its Alloy	Microstructure Analysis	IS 7739 (Part 4)
172	MECHANICAL-METALLOGRAPHY TEST	Copper and Copper Base Alloys	Estimation of grain size (By Comparison Method)	ASTM E112
173	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic / Ferritic Stainless Steel	Detecting Detrimental Intermetallic Phase	ASTM A923 (Method A)
174	MECHANICAL-METALLOGRAPHY TEST	Iron & Steel	Microstructure Analysis	IS 7739 (Part 5)
175	MECHANICAL-METALLOGRAPHY TEST	Iron & Steel, Copper & its Alloys, Nickel & its Alloy, Cast Iron	Microstructure Analysis	ASM Handbook Vol 9
176	MECHANICAL-METALLOGRAPHY TEST	Low Carbon Steel	Estimation of grain size (By Comparison Method)	ASTM E112
177	MECHANICAL-METALLOGRAPHY TEST	Low Carbon Steel	Estimation of grain size (By Comparison Method)	IS 4748
178	MECHANICAL-METALLOGRAPHY TEST	Metal and Oxide Coating Thickness	Metal and Oxide Coating Thickness by Microscopical Examination	ASTM B487
179	MECHANICAL-METALLOGRAPHY TEST	Nickel & its Alloy	Microstructure Analysis	IS 7739 (Part 8)
180	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Estimation of grain size (By Comparison Method)	ASTM E112
181	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Estimation of grain size (By Comparison Method)	IS 4748
182	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Pitting Corrosion Resistance of Stainless Steels and Related Alloys	ASTM G48

SCOPE OF ACCREDITATION

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Certificate Number TC-6680 **Page No** 12 of 14

Validity 27/12/2022 to 26/12/2024 **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
183	MECHANICAL-METALLOGRAPHY TEST	Steel	Determination of Case Depth By Microscopic Method	IS 6416
184	MECHANICAL-METALLOGRAPHY TEST	Steel	Determination of Depth of Decarburized Layer in Steel (By Microscopic Method)	IS 6396
185	MECHANICAL-METALLOGRAPHY TEST	Steel	Determination of Inclusion Rating in Steel (By Method A)	IS 4163
186	MECHANICAL-METALLOGRAPHY TEST	Steel	Determination of Inclusion Rating in Steel (Method A)	ASTM E45
187	MECHANICAL-METALLOGRAPHY TEST	Steel	Macro Structural Analysis	ASTM E340
188	MECHANICAL-METALLOGRAPHY TEST	Steel	Macro Structural Analysis	ASTM E381
189	MECHANICAL-METALLOGRAPHY TEST	Steel	Macro Structural Analysis	IS 7739 (Part 5)

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6680	**Page No**	13 of 14
Validity	27/12/2022 to 26/12/2024	**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
Site Facility				
1	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Chrominum (Cr)	API 578 (PMI By XRF)
2	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Chrominum (Cr)	API Practice 578 (PMI By XRF)
3	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Cobalt (Co)	API 578 (PMI By XRF)
4	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Cobalt (Co)	API Practice 578 (PMI By XRF)
5	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Copper (Cu)	API 578 (PMI By XRF)
6	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Copper (Cu)	API Practice 578 (PMI By XRF)
7	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Iron (Fe)	API 578 (PMI By XRF)
8	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Iron (Fe)	API Practice 578 (PMI By XRF)
9	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Manganese (Mn)	API 578 (PMI By XRF)
10	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Manganese (Mn)	API Practice 578 (PMI By XRF)
11	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Molybdenum (Mo)	API 578 (PMI By XRF)
12	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Molybdenum (Mo)	API Practice 578 (PMI By XRF)
13	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Nickel (Ni)	API 578 (PMI By XRF)
14	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Nickel (Ni)	API Practice 578 (PMI By XRF)
15	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Niobium (Nb)	API 578 (PMI By XRF)
16	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Niobium (Nb)	API Practice 578 (PMI By XRF)
17	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Titanium (Ti)	API 578 (PMI By XRF)
18	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Titanium (Ti)	API Practice 578 (PMI By XRF)

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Certificate Number TC-6680 **Page No** 14 of 14

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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	Iron & its Alloys	Tungsten (W)	API Practice 578 (PMI By XRF)
20	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Vandium (V)	API 578 (PMI By XRF)
21	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Vandium (V)	API Practice 578 (PMI By XRF)
22	CHEMICAL- METALS & ALLOYS	Iron and its Alloy	Tungsten (W)	API 578 (PMI By XRF)
23	MECHANICAL- METALLOGRAPHY TEST	Austenitic & Duplex Stainless Steel	Ferrite Measurement By Ferritoscope	ASTM A800 / 800M