National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUANTUM ANALYTICS, #37/143,9TH MAIN,3RD PHASE, BENGALURU, BENGALURU URBAN, KARNATAKA, 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	Coated Products / Panels / Raw Materials	Neutral Salt Spray	ASTM B117
2	CHEMICAL- CORROSION TESTS	Coated Products / Panels / Raw Materials	Neutral Salt Spray	ISO 9227
3	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Titanium	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Chromium	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Iron	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Lead	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Magnesium	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Manganese	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Nickel	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Silicon	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Tin	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Zinc	ASTM E1251
14	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Aluminium	BS 15079
15	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Antimony	BS 15079
16	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Arsenic	BS 15079
17	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Iron	BS 15079
18	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Lead	BS 15079

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19	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Manganese	BS 15079
20	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Nickel	BS 15079
21	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Phosphrous	BS 15079
22	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Tin	BS 15079
23	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Zinc	BS 15079
24	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium	ASTM E415
25	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium	IS 8811
26	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 8811
28	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	ASTM E415
29	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 8811
30	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	IS 8811
32	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	IS 8811
34	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead	ASTM E415
35	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	ASTM E415
36	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 8811
37	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	ASTM E415

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38	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	IS 8811
39	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	ASTM E415
40	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	IS 8811
41	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphrous	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphrous	IS 8811
43	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E415
44	CHEMICAL- METALS & ALLOYS	Low alloy Steel	Silicon	IS 8811
45	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	ASTM E415
46	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	IS 8811
47	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	ASTM E415
48	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	IS 8811
49	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
50	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
51	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
52	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
53	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
54	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
55	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E086
56	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879

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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	Stainless Steel	Molybdneum	ASTM E1086
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdneum	IS 9879
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
60	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 9879
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphrous	ASTM E1086
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphrous	IS 9879
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
67	CHEMICAL- METALS & ALLOYS	Tool steel	Carbon	QA/MV/CHE/002 Issue No:01,Issue Date 13.06.2016
68	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	QA/MV/CHE/002 Issue No:01,Issue Date 13.06.2016
69	CHEMICAL- METALS & ALLOYS	Tool steel	Cobalt	QA/MV/CHE/002 Issue No:01,Issue Date 13.06.2016
70	CHEMICAL- METALS & ALLOYS	Tool steel	Manganese	QA/MV/CHE/002 Issue No:01,Issue Date 13.06.2016
71	CHEMICAL- METALS & ALLOYS	Tool steel	Molybdneum	QA/MV/CHE/002 Issue No:01,Issue Date 13.06.2016
72	CHEMICAL- METALS & ALLOYS	Tool steel	Phosphrous	QA/MV/CHE/002 Issue No:01,Issue Date 13.06.2016
73	CHEMICAL- METALS & ALLOYS	Tool steel	Silicon	QA/MV/CHE/002 Issue No:01,Issue Date 13.06.2016
74	CHEMICAL- METALS & ALLOYS	Tool steel	Sulphur	QA/MV/CHE/002 Issue No:01,Issue Date 13.06.2016
75	CHEMICAL- METALS & ALLOYS	Tool steel	Tungusten	QA/MV/CHE/002 Issue No:01,Issue Date 13.06.2016

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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
76	CHEMICAL- METALS & ALLOYS	Tool steel	Vanadium	QA/MV/CHE/002 Issue No:01,Issue Date 13.06.2016
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous	Longitudinal & Transverse Root/Face/Side Bend	ASME SEC IX
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous	Tensile strength	ASME SEC IX
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	% Elogation	ASTM E8/E8M
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	% Elongation	IS 1608 (Part 1)
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	% Reduction	ASTM E8/E8M
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	% Reduction	IS 1608(Part 1)
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	0.2% Proof stress	ASTM E8/E8M
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	0.2% Proof stress	IS 1608 (Part 1)
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Bend Test	IS 1599
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Brinell Hardness (10/3000)	IS 1500 (part 1)
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Brinell Hradness (10/500)	IS 1500 (part 1)
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Charpy "V" Notch Impact Test 35 to -60 dergee centigrade	IS 1757 (Part 1)
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Izod Impact Test	IS 1598

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90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Rockwell Hardness HRA	IS 1586 (part 1)
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Rockwell hardness HRB	IS 1586 (Part 1)
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Rockwell Hardness HRC	IS 1586 (Part1)
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Tensile Strength	ASTM E8/E8M
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Tensile Strength	IS 1608 (Part 1)
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Yeild Stress	ASTM E8/EM
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Yeild Stress	IS 1608 (Part 1)
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Weld sample	Longitudinal & Transverse Face/Root/Side Bend Tensile	AWS D1.1/D1.1M
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion weld of Steel	Transverse Tensile strength Root/Face/Side Bend	IS 7307 (part 1)
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion welding of steel	Longitudinal face/root Bend	IS 3600(part 7)
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Weld	Side Bend Test	ASME SEC IX
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Butt Joint	Transverse Root/Face Bend	IS 3600 (Part 5)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	% Elongation	ASTM A370
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	% Reduction	ASTM A370

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104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	0.2% Proof stress	ASTM A370
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Bend Test	ASTM A370
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Strength	ASTM A370
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Yeild stress	ASTM A370
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld bend Test	Bend Test	ISO 5173
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in steel	Transverse Tensile strength	AWS D1.1/D1.1M
110	MECHANICAL-METALLOGRAPHY TEST	Case Hardened Steels & nitrided Steel Materials & Products	Case Depth by Microscopic MethodMagnification (7 x to 45x,50X,100X)	IS 6416
111	MECHANICAL-METALLOGRAPHY TEST	Cast Iron(Grey,SG,White,Malleable)	Micro structure(Graphite type,Size & distribution)	IS 7754
112	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous material	Grain Size(Untwined Grains):Ferritic grain size in Low carbon Steel	ASTM E 112
113	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Materials	Microstructure Analysis	ASM Metals Hand Book Volume 9
114	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Grain Size(untwined Grains):Ferritic grain size in Low carbon steel	IS 4748
115	MECHANICAL-METALLOGRAPHY TEST	Fusion welding of steel	Macro Examination	IS 7318 (part 1)
116	MECHANICAL-METALLOGRAPHY TEST	Plated/Coated parts	Coating Thickness By Microscopic Method	IS 3203
117	MECHANICAL-METALLOGRAPHY TEST	Steel Hot Roll Bar & Forgings	Macro examination with Ratings	IS 13015
118	MECHANICAL-METALLOGRAPHY TEST	Steel Material & Products	Decarburization DepthBy Microscoic method Magnification (7 x to 45x,50X,100X)	IS 6396

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119	MECHANICAL-METALLOGRAPHY TEST	Steel products	Non Metallic Inclusion Rating Magnification: 100 X	IS 4163
120	MECHANICAL-METALLOGRAPHY TEST	Tig & Mig Welding of Aluminium & Al Alloys	Macro Examination	IS 7318 (part II)
121	MECHANICAL-METALLOGRAPHY TEST	Weld in steel	Macro Examination	IS 3600 (part 9)
122	MECHANICAL-METALLOGRAPHY TEST	Wrought Aluminium and Al alloys	Macro Examination	IS 12573
123	MECHANICAL-METALLOGRAPHY TEST	Wrought Steel	Macro Examination	IS 11371