SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, UNIT 1, VINIR ENGINEERING PRIVATE LIMITED, NO. 102-104, BOMMASANDRA INDUSTRIAL AREA, BENGALURU, 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- METALS & ALLOYS	Nickel-base Alloys	Aluminium	ASTM E3047
2	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Boron	ASTM E3047
3	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Carbon	ASTM E3047
4	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Chromium	ASTM E3047
5	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Cobolt	ASTM E3047
6	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Copper	ASTM E3047
7	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Iron	ASTM E3047
8	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Manganese	ASTM E3047
9	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Molybdenum	ATTM E3047
10	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Niobium	ASTM E3047
11	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Nitrogen	ASTM E3047
12	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Phosphorus	ASTM E3047
13	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Silicon	ASTM E3047
14	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Sulphur	ASTM E3047
15	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Titanium	ASTM E3047
16	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Tungsten	ASTM E3047
17	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Vanadium	ASTM E3047
18	CHEMICAL- METALS & ALLOYS	Nickel-base Alloys	Zirconium	ASTM E3047

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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	Plain Carbon and Low Alloy Steels	Aluminium	IS 8811
20	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Boron	IS 8811
21	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Carbon	IS 8811
22	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Chromium	IS 8811
23	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Cobalt	IS 8811
24	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Copper	IS 8811
25	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Manganese	IS 8811
26	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Molybdenum	IS 8811
27	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Nickel	IS 8811
28	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Niobium	IS 8811
29	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Nitrogen	IS 8811
30	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Phosphorus	IS 8811
31	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Silicon	IS 8811
32	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Sulphur	IS 8811
33	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Tin	IS 8811
34	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Titanium	IS 8811
35	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Tungsten	IS 8811
36	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Vanadium	IS 8811
37	CHEMICAL- METALS & ALLOYS	Stainless Steels	Aluminium	IS 9879

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38	CHEMICAL- METALS & ALLOYS	Stainless Steels	Boron	IS 9879
39	CHEMICAL- METALS & ALLOYS	Stainless Steels	Carbon	IS 9879
40	CHEMICAL- METALS & ALLOYS	Stainless Steels	Chromium	IS 9879
41	CHEMICAL- METALS & ALLOYS	Stainless Steels	Cobalt	IS 9879
42	CHEMICAL- METALS & ALLOYS	Stainless Steels	Copper	IS 9879
43	CHEMICAL- METALS & ALLOYS	Stainless Steels	Manganese	IS 9879
44	CHEMICAL- METALS & ALLOYS	Stainless Steels	Molybdenum	IS 9879
45	CHEMICAL- METALS & ALLOYS	Stainless Steels	Nickel	IS 9879
46	CHEMICAL- METALS & ALLOYS	Stainless Steels	Niobium	IS 9879
47	CHEMICAL- METALS & ALLOYS	Stainless Steels	Nitrogen	IS 9879
48	CHEMICAL- METALS & ALLOYS	Stainless Steels	Phosphorus	IS 9879
49	CHEMICAL- METALS & ALLOYS	Stainless Steels	Silicon	IS 9879
50	CHEMICAL- METALS & ALLOYS	Stainless Steels	Sulphur	IS 9879
51	CHEMICAL- METALS & ALLOYS	Stainless Steels	Tantalum	IS 9879
52	CHEMICAL- METALS & ALLOYS	Stainless Steels	Tin	IS 9879
53	CHEMICAL- METALS & ALLOYS	Stainless Steels	Titanium	IS 9879
54	CHEMICAL- METALS & ALLOYS	Stainless Steels	Tungsten	IS 9879
55	CHEMICAL- METALS & ALLOYS	Stainless Steels	Vanadium	IS 9879

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56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & priducts	Tensile Test at ambient temperature (Reduction in Area)	ISO (EN ISO) 6892-1
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & priducts	Tensile Test at Ambient Temperature (Yield Strength)	IS 1608-Part 1
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness (10/3000)	ISO (EN ISO) 6506-1
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness HBW 10/3000	IS1500 (Part 1)
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact - 2 mm V Notch at ambient and temperature upto minus 65 Deg. Centigrade (Absorbed Energy)	ASTM E23
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test - 2 mm U Notch at Ambient Temperature (Absorbed Energy)	IS 1499
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test - 2 mm V-Notch)) at Ambient Temperature and Temperatures up-to minus 65 Deg. Centigrade (Absorbed Energy)	ISO (EN ISO) 148-1
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (2 mm V-Notch) at ambient temperature and temperatures up to minus 65 Deg. Centigrade (Lateral Expansion)	ISO (EN ISO) 148-1
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (2 mm V-Notch) Proportion of Shear Fracture Surface using Method A 4.1.2 (Comparison with Standard Chart)	ASTM E23
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Chary Impact Test - 2 mm V-Notch at Ambient and Temperatures up-to minus 65 Deg. Centigrade (Lateral Expansion)	ASTM E23
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Izod Impact Test Ambient Temperature (Absorbed Energy)	IS 1598

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67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test at ambient temperature (Elongation)	ASTM A370
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test at ambient temperature (Elongation)	IS 1608-Part 1
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test at ambient temperature (Elongation)	ISO (EN ISO) 6892-1
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test at ambient temperature (Proof Strength)	ASTM A370
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test at ambient temperature (Proof Strength)	IS 1608-Part 1
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test at ambient temperature (Proof Strength)	ISO (EN ISO) 6892-1
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test at ambient temperature (Reduction in Area)	IS 1608-Part 1
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test at ambient temperature (Reduction of Area)	ASTM A370
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test at Ambient Temperature (Tensile Strength)	ASTM A370
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test at ambient temperature (Tensile Strength)	IS 1608-Part 1
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test at Ambient Temperature (Tensile Strength)	ISO (EN ISO) 6892-1
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test at Ambient Temperature (Yield Strength)	ASTM A370
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test at Ambient Temperature (Yield Strength)	ISO (EN ISO) 6892-1

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80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & proudcts	Charpy Impact - 2 mm V Notch at ambient and temperature upto minus 65 Deg. Centigrade (Absorbed Energy)	IS 1757 (Part 1)