National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKNO VALVES (LABORATORY DIVISION), NATUN RASTA, BILKANDA, KOLKATA, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 14/10/2022 to 13/10/2024 **Last Amended on** 10/11/2022

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	Aluminium alloy	Spectrometric Analysis Iron (Fe)	ASTM E1251
2	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Spectrometric Analysis Manganese (Mn)	ASTM E1251
3	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Spectrometric Analysis of Chromium (Cr)	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Spectrometric Analysis of Copper (Cu)	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Spectrometric Analysis of Magnesium (Mg)	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Spectrometric Analysis of Silicon (Si)	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium alloy	Spectrometric Analysis of Titanium (Ti)	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Brass/Bronze	Spectrometric Analysis of Aluminium (Al)	BS EN 15079
9	CHEMICAL- METALS & ALLOYS	Brass/Bronze	Spectrometric analysis of Arsenic (As)	BS EN 15079
10	CHEMICAL- METALS & ALLOYS	Brass/Bronze	Spectrometric Analysis of Iron (Fe)	BS EN 15079
11	CHEMICAL- METALS & ALLOYS	Brass/Bronze	Spectrometric Analysis of Lead (Pb)	BS EN 15079
12	CHEMICAL- METALS & ALLOYS	Brass/Bronze	Spectrometric Analysis of Manganese (Mn)	BS EN 15079
13	CHEMICAL- METALS & ALLOYS	Brass/Bronze	Spectrometric Analysis of Nickel (Ni)	BS EN 15079
14	CHEMICAL- METALS & ALLOYS	Brass/Bronze	Spectrometric analysis of Tin (Sn)	BS EN 15079
15	CHEMICAL- METALS & ALLOYS	Brass/Bronze	Spectrometric Analysis of Zinc (Zn)	BS EN 15079
16	CHEMICAL- METALS & ALLOYS	Brass/Bronze	Spectrometric Analysis Silicon (Si)	BS EN 15079
17	CHEMICAL- METALS & ALLOYS	Carbon Steel	Spectrometric analysis of Carbon (C)	IS 8811
18	CHEMICAL- METALS & ALLOYS	Carbon Steel	Spectrometric Analysis of Chromium (Cr)	IS 8811

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19	CHEMICAL- METALS & ALLOYS	Carbon Steel	Spectrometric Analysis of Copper (Cu)	IS 8811
20	CHEMICAL- METALS & ALLOYS	Carbon Steel	Spectrometric Analysis of Manganese (Mn)	IS 8811
21	CHEMICAL- METALS & ALLOYS	Carbon Steel	Spectrometric Analysis of Molybdenum (Mo)	IS 8811
22	CHEMICAL- METALS & ALLOYS	Carbon Steel	Spectrometric Analysis of Nickel (Ni)	IS 8811
23	CHEMICAL- METALS & ALLOYS	Carbon Steel	Spectrometric Analysis of Phosphorus (P)	IS 8811
24	CHEMICAL- METALS & ALLOYS	Carbon Steel	Spectrometric Analysis of Sulphur (S)	IS 8811
25	CHEMICAL- METALS & ALLOYS	Carbon Steel	Spectrometric Analysis Silicon (Si)	IS 8811
26	CHEMICAL- METALS & ALLOYS	Nickel Alloy	Spectrometric Analysis of Aluminium (Al)	ASTM E3047
27	CHEMICAL- METALS & ALLOYS	Nickel alloy	Spectrometric Analysis of Carbon (C)	ASTM E3047
28	CHEMICAL- METALS & ALLOYS	Nickel Alloy	Spectrometric Analysis of Copper (Cu)	ASTM E3047
29	CHEMICAL- METALS & ALLOYS	Nickel Alloy	Spectrometric Analysis of Iron (Fe)	ASTM E3047
30	CHEMICAL- METALS & ALLOYS	Nickel Alloy	Spectrometric Analysis of Manganese (Mn)	ASTM E3047
31	CHEMICAL- METALS & ALLOYS	Nickel Alloy	Spectrometric Analysis of Silicon (Si)	ASTM E3047
32	CHEMICAL- METALS & ALLOYS	Nickel Alloy	Spectrometric Analysis of Sulphur (S)	ASTM E3047
33	CHEMICAL- METALS & ALLOYS	Nickel Alloy	Spectrometric Analysis of Titanium (Ti)	ASTM E3047
34	CHEMICAL- METALS & ALLOYS	Stainless Steel	Spectrometric Analysis of Molybdenum (Mo)	ASTM E1086
35	CHEMICAL- METALS & ALLOYS	Stainless Steel	Spectrometric Analysis of Carbon (C)	ASTM E1086
36	CHEMICAL- METALS & ALLOYS	Stainless Steel	Spectrometric Analysis of Chromium (Cr)	ASTM E1086
37	CHEMICAL- METALS & ALLOYS	Stainless Steel	Spectrometric Analysis of Copper (Cu)	ASTM E1086

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38	CHEMICAL- METALS & ALLOYS	Stainless Steel	Spectrometric Analysis of Manganese (Mn)	ASTM E1086
39	CHEMICAL- METALS & ALLOYS	Stainless Steel	Spectrometric Analysis of Nickel (Ni)	ASTM E1086
40	CHEMICAL- METALS & ALLOYS	Stainless Steel	Spectrometric Analysis of Phosphorus (P)	ASTM E 1086
41	CHEMICAL- METALS & ALLOYS	Stainless Steel	Spectrometric Analysis of Silicon (Si)	ASTM E1086
42	CHEMICAL- METALS & ALLOYS	Stainless Steel	Spectrometric Analysis of Sulphur (S)	ASTM E1086
43	CHEMICAL- METALS & ALLOYS	Tool Steel	Spectrometric Analysis of Carbon (C)	JIS G 1253
44	CHEMICAL- METALS & ALLOYS	Tool Steel	Spectrometric Analysis of Chromium (Cr)	JIS G 1253
45	CHEMICAL- METALS & ALLOYS	Tool Steel	Spectrometric Analysis of Cobalt (Co)	JIS G 1253
46	CHEMICAL- METALS & ALLOYS	Tool Steel	Spectrometric Analysis of Manganese (Mn)	JIS G 1253
47	CHEMICAL- METALS & ALLOYS	Tool Steel	Spectrometric Analysis of Molybdenum (Mo)	JIS G 1253
48	CHEMICAL- METALS & ALLOYS	Tool Steel	Spectrometric Analysis of Nickel (Ni)	JIS G 1253
49	CHEMICAL- METALS & ALLOYS	Tool Steel	Spectrometric Analysis of Phosphorus (P)	JIS G 1253
50	CHEMICAL- METALS & ALLOYS	Tool Steel	Spectrometric Analysis of Silicon (Si)	JIS G 1253
51	CHEMICAL- METALS & ALLOYS	Tool Steel	Spectrometric Analysis of Sulphur (S)	JIS G 1253
52	CHEMICAL- METALS & ALLOYS	Tool Steel	Spectrometric Analysis of Vanadium (V)	JIS G 1253
53	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys and Nickel Alloys	% Elongation	IS 1608 Part 1
54	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys and Nickel Alloys	% Reduction in area	IS 1608 Part 1
55	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys and Nickel Alloys	Brinell Hardness (HBW)	IS 1500 (Part 1)

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56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium alloys and Nickel Alloys	Izod Impact	IS 1598
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium alloys and Nickel alloys	Rockwell Hardness (HRA)	IS 1586 (Part 1)
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium alloys and Nickel alloys	Rockwell Hardness (HRBW)	IS 1586 (Part 1)
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium alloys and Nickel alloys	Tensile Strength	IS 1608 Part 1
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium alloys and Nickel alloys	Vickers Hardness (HV10)	IS1501 (Part 1)
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium alloys and Nickel alloys	Vickers Hardness (HV5)	IS 1501 (Part 1)
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum alloys and Nickel alloys	Yield Strength	IS 1608 Part 1
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum and Nickel Alloys	Vickers Hardness (HV30)	IS1501 (Part1)
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper based alloy	% Elongation	IS 1608 (Part 1)
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper based alloy	% Reduction in Area	IS 1608 Part 1
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper based alloy	Brinell Hardness (HBW)	IS 1500 (Part 1)
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper based Alloy	Izod Impact	IS 1598
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper based alloy	Rockwell Hardness (HRA)	IS 1586 (Part 1)
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper based alloy	Rockwell Hardness (HRBW)	IS 1586 (Part 1)

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70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper based alloy	Tensile Strength	IS 1608 (Part 1)
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper based alloy	Vickers Hardness (HV10)	IS 1501 (Part 1)
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper based alloy	Vickers Hardness (HV30)	IS 1501 (Part 1)
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper based alloy	Vickers Hardness (HV5)	IS 1501 (Part 1)
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper based alloy	Yield Strength	IS 1608 (Part 1)
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Alloys	Brinell Hardness	IS 1500 (Part 1)
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous based alloy	% Elongation	IS 1608 Part 1
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous based alloy	% Reduction in area	IS 1608 Part 1
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous based alloy	Rockwell Hardness (HRC)	IS 1586 (Part 1)
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous based alloy	Tensile Strength	IS 1608 Part 1
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous based alloys	Izod Impact	IS 1598
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous based alloys	Rockwell Hardness (HRA)	IS 1586 (Part 1)
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous based Alloys	Rockwell Hardness (HRBW)	IS 1586 (Part 1)
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous based alloys	Vickers Hardness (HV10)	IS 1501 (Part 1)

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84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous based alloys	Vickers Hardness (HV30)	IS 1501 (Part 1)
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous based alloys	Vickers Hardness (HV5)	IS 1501 (Part 1)
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous based alloys	Yield Strength	IS 1608 Part 1