National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NEPPTUNE METALLURGICAL LABORATORIES, 3, C WING, 1ST FLOOR, ASHOKA VIHAR, XLO POINT, MIDC, AMBAD, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6569 **Page No** 1 of 9

Validity 25/07/2021 to 24/07/2023 **Last Amended on** 29/11/2021

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
LOCATION 1-3, C WING, 1ST FLOOR, ASHOKA VIHAR, XLO POINT, MIDC, AMBAD, NASHIK, MAHARASHTRA, INDIA Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Al & its alloys	Chromium (Cr)	ASTM E1251-17a
2	CHEMICAL- METALS & ALLOYS	Al & its alloys	Copper (Cu)	ASTM E1251-17a
3	CHEMICAL- METALS & ALLOYS	Al & its alloys	Iron (Fe)	ASTM E1251-17a
4	CHEMICAL- METALS & ALLOYS	Al & its alloys	Lead (Pb)	ASTM E1251-17a
5	CHEMICAL- METALS & ALLOYS	Al & its alloys	Magnesium (Mg)	ASTM E1251-17a
6	CHEMICAL- METALS & ALLOYS	Al & its alloys	Manganese (Mn)	ASTM E1251-17a
7	CHEMICAL- METALS & ALLOYS	Al & its alloys	Nickel (Ni)	ASTM E1251-17a
8	CHEMICAL- METALS & ALLOYS	Al & its alloys	Silicon (Si)	ASTM E1251-17a
9	CHEMICAL- METALS & ALLOYS	Al & its alloys	Titanium (Ti)	ASTM E1251-17a
10	CHEMICAL- METALS & ALLOYS	Al & its alloys	Zinc (Zn)	ASTM E1251-17a
11	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steels	Aluminium (Al)	ASTM E415-17, IS 8811
12	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steels	Boron (B)	ASTM E415-17, IS 8811
13	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steels	Carbon (C)	ASTM E415-17, IS 8811
14	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steels	Chromium (Cr)	ASTM E415-17, IS 8811
15	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steels	Copper (Cu)	ASTM E415-17, IS 8811
16	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steels	Lead (Pb)	ASTM E415-17, IS 8811
17	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steels	Manganese (Mn)	ASTM E415-17, IS 8811
18	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steels	Molybdenum (Mo)	ASTM E415-17, IS 8811

SCOPE OF ACCREDITATION

Laboratory Name :	NEPPTUNE METALLURGICAL LABORATORIES, 3, C WING, 1ST FLOOR, ASHOKA VIHAR, XLO POINT, MIDC, AMBAD, NASHIK, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6569	**Page No**	2 of 9
Validity	25/07/2021 to 24/07/2023	**Last Amended on**	29/11/2021

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 & Low Alloy Steels	Nickel (Ni)	ASTM E415-17, IS 8811
20	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steels	Phosphorus (P)	ASTM E415-17, IS 8811
21	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steels	Silicon (Si)	ASTM E415-17, IS 8811
22	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steels	Sulphur (S)	ASTM E415-17, IS 8811
23	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steels	Vanadium (V)	ASTM E415-17, IS 8811
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon (C)	ASTM E 1999, IS 15338
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium (Cr)	ASTM E 1999, IS 15338
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper (Cu)	ASTM E 1999, IS 15338
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese (Mn)	ASTM E 1999, IS 15338
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel (Ni)	ASTM E 1999, IS 15338
29	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus (P)	ASTM E 1999, IS 15338
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon (Si)	ASTM E 1999, IS 15338
31	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur (S)	ASTM E 1999, IS 15338
32	CHEMICAL- METALS & ALLOYS	Cu & its alloys	Aluminium (Al)	BS EN 15079
33	CHEMICAL- METALS & ALLOYS	Cu & its alloys	Beryllium (Be)	BS EN 15079
34	CHEMICAL- METALS & ALLOYS	Cu & its alloys	Cobalt (Co)	BS EN 15079
35	CHEMICAL- METALS & ALLOYS	Cu & its alloys	Iron (Fe)	BS EN 15079
36	CHEMICAL- METALS & ALLOYS	Cu & its alloys	Lead (Pb)	BS EN 15079
37	CHEMICAL- METALS & ALLOYS	Cu & its alloys	Manganese (Mn)	BS EN 15079

SCOPE OF ACCREDITATION

Laboratory Name :	NEPPTUNE METALLURGICAL LABORATORIES, 3, C WING, 1ST FLOOR, ASHOKA VIHAR, XLO POINT, MIDC, AMBAD, NASHIK, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6569	**Page No**	3 of 9
Validity	25/07/2021 to 24/07/2023	**Last Amended on**	29/11/2021

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	Cu & its alloys	Nickel (Ni)	BS EN 15079
39	CHEMICAL- METALS & ALLOYS	Cu & its alloys	Phosphorus (P)	BS EN 15079
40	CHEMICAL- METALS & ALLOYS	Cu & its alloys	Silicon (Si)	BS EN 15079
41	CHEMICAL- METALS & ALLOYS	Cu & its alloys	Tin (Sn)	BS EN 15079
42	CHEMICAL- METALS & ALLOYS	Cu & its alloys	Zinc (Zn)	BS EN 15079
43	CHEMICAL- METALS & ALLOYS	SS	Carbon (C)	ASTM E1086, IS 9879
44	CHEMICAL- METALS & ALLOYS	SS	Chromium (Cr)	ASTM E1086, IS 9879
45	CHEMICAL- METALS & ALLOYS	SS	Copper (Cu)	ASTM E1086, IS 9879
46	CHEMICAL- METALS & ALLOYS	SS	Manganese (Mn)	ASTM E1086, IS 9879
47	CHEMICAL- METALS & ALLOYS	SS	Molybdenum (Mo)	ASTM E1086, IS 9879
48	CHEMICAL- METALS & ALLOYS	SS	Nickel (Ni)	ASTM E1086, IS 9879
49	CHEMICAL- METALS & ALLOYS	SS	Nitrogen (N)	ASTM E 1086, IS 9879
50	CHEMICAL- METALS & ALLOYS	SS	Phosphorus (P)	ASTM E1086, IS 9879
51	CHEMICAL- METALS & ALLOYS	SS	Silicon (Si)	ASTM E1086, IS 9879
52	CHEMICAL- METALS & ALLOYS	SS	Sulphur (S)	ASTM E1086, IS 9879
53	CHEMICAL- METALS & ALLOYS	TS	Carbon (C)	JIS G1253
54	CHEMICAL- METALS & ALLOYS	TS	Chromium (Cr)	JIS G1253
55	CHEMICAL- METALS & ALLOYS	TS	Cobalt (Co)	JIS G1253
56	CHEMICAL- METALS & ALLOYS	TS	Copper (Cu)	JIS G1253

SCOPE OF ACCREDITATION

Laboratory Name :	NEPPTUNE METALLURGICAL LABORATORIES, 3, C WING, 1ST FLOOR, ASHOKA VIHAR, XLO POINT, MIDC, AMBAD, NASHIK, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6569	**Page No**	4 of 9
Validity	25/07/2021 to 24/07/2023	**Last Amended on**	29/11/2021

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	TS	Manganese (Mn)	JIS G1253
58	CHEMICAL- METALS & ALLOYS	TS	Molybdenum (Mo)	JIS G1253
59	CHEMICAL- METALS & ALLOYS	TS	Nickel (Ni)	JIS G1253
60	CHEMICAL- METALS & ALLOYS	TS	Phosphorus (P)	JIS G1253
61	CHEMICAL- METALS & ALLOYS	TS	Silicon (Si)	JIS G1253
62	CHEMICAL- METALS & ALLOYS	TS	Sulphur (S)	JIS G1253
63	CHEMICAL- METALS & ALLOYS	TS	Tungsten (W)	JIS G1253
64	CHEMICAL- METALS & ALLOYS	TS	Vanadium (V)	JIS G1253
65	CHEMICAL- METALS & ALLOYS	Zn & its alloys	Aluminium (Al)	ISO 3851-1
66	CHEMICAL- METALS & ALLOYS	Zn & its alloys	Cadmium (Cd)	ISO 3851-1
67	CHEMICAL- METALS & ALLOYS	Zn & its alloys	Copper (Cu)	ISO 3851-1
68	CHEMICAL- METALS & ALLOYS	Zn & its alloys	Iron (Fe)	ISO 3851-1
69	CHEMICAL- METALS & ALLOYS	Zn & its alloys	Lead (Pb)	ISO 3851-1
70	CHEMICAL- METALS & ALLOYS	Zn & its alloys	Magnesium (Mg)	ISO 3851-1
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All Metallic Materials	Brinell Hardness Test	IS 1500 Pt 1
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All Metallic Materials	Rockwell Hardness Test HRA	ASTM A370
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	All Metallic Materials	Rockwell Hardness Test HRA	IS 1586 Pt 1

SCOPE OF ACCREDITATION

Laboratory Name :	NEPPTUNE METALLURGICAL LABORATORIES, 3, C WING, 1ST FLOOR, ASHOKA VIHAR, XLO POINT, MIDC, AMBAD, NASHIK, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6569	**Page No**	5 of 9
Validity	25/07/2021 to 24/07/2023	**Last Amended on**	29/11/2021

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
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All Metallic Materials	Rockwell Hardness Test HRBW	ASTM A370
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All Metallic Materials	Rockwell Hardness Test HRBW	IS 1586 Pt 1
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All Metallic Materials	Rockwell Hardness Test HRC	ASTM A370
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All Metallic Materials	Rockwell Hardness Test HRC	IS 1586 Pt 1
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non ferrous metallic material	Rockwell Hardness test HRA	IS 1586-Pt 1
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non ferrous metallic material	Rockwell Hardness Test HRBW	ASTM A370
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non ferrous metallic material	Rockwell Hardness Test HRC	ASTM A370
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous metallic material	Brinell Hardness test	IS 1500-Pt 1
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous metallic material	Rockwell Hardness HRBW	IS 1586-Pt 1
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous metallic material	Rockwell Hardness HRC	IS 1586-Pt 1
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous metallic material	Rockwell Hardness Test HRA	ASTM A370
85	MECHANICAL-METALLOGRAPHY TEST	Metallography of Cast Iron	Determination of Graphite type & size	IS 7754
86	MECHANICAL-METALLOGRAPHY TEST	Other Non-ferrous metallic material	Micro structure analysis (Phase analysis)	ASTM E1245-17a
87	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Average Grain Size by comparison method	ASTM E112
88	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Average Grain Size by comparison method	IS 4748

SCOPE OF ACCREDITATION

Laboratory Name :	NEPPTUNE METALLURGICAL LABORATORIES, 3, C WING, 1ST FLOOR, ASHOKA VIHAR, XLO POINT, MIDC, AMBAD, NASHIK, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6569	**Page No**	6 of 9
Validity	25/07/2021 to 24/07/2023	**Last Amended on**	29/11/2021

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
89	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Macro Test	IS 11371
90	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Macro Test	IS 13015
91	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Micro structure Analysis (Phase analysis)	ASTM E1245-17a
92	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Non Metallic Inclusions by Comparison Method	IS 4163 , ISO 4967
93	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Total Case Depth by microscopic method	IS 6416

SCOPE OF ACCREDITATION

Laboratory Name : NEPPTUNE METALLURGICAL LABORATORIES, 3, C WING, 1ST FLOOR, ASHOKA VIHAR, XLO POINT, MIDC, AMBAD, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6569 **Page No** 7 of 9

Validity 25/07/2021 to 24/07/2023 **Last Amended on** 29/11/2021

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
LOCATION 2 - GALA NO. W-2, GROUND FLOOR, ASHOKA VIHAR, XLO POINT, MIDC, AMBAD, NASHIK, MAHARASHTRA, INDIA Permanent Facility				
1	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All Metallic materials	Brinell Hardness test	ASTM A370
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All Metallic materials	Brinell Hardness test	IS 1500 Pt-1
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All Metallic materials - Tubes/Pipes	Flattening Test	ASTM A370, IS 2328
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous base material	Charpy V Notch Impact test at subzero temperatures (0 degree C to -45 degree C)	IS 1757 Pt.1
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metallic material	Charpy V Notch Impact test	ASTM A370, IS 1757 Pt 1
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metallic material	Drift expanding test	ASTM A370, IS 2335
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metallic material	Tensile Test - % of Elongation	ASTM A370, ASTM E8/E8M-16ae1,IS 1608 Pt 1
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metallic material	Tensile Test - % RA - %Reduction in area	ASTM A370, ASTM E8/E8M-16ae1, IS 1608 Pt. 1
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metallic material	Tensile Test - 0.2% P.S. with Extensometer	ASTM A370, ASTM E8/E8M-16ae1,IS 1608 Pt 1
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metallic material	Tensile Test - UTS	ASTM A370, ASTM E8/E8M-16ae1,IS 1608 Pt 1
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metallic material	Tensile Test - Ys	ASTM A370, ASTM E8/E8M-16ae1,IS 1608 Pt 1
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Bend Test	ASTM A370, IS 1599
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials Tubes / Pipes	Flattening Test	ASTM A370, IS 2328

SCOPE OF ACCREDITATION

Laboratory Name : NEPPTUNE METALLURGICAL LABORATORIES, 3, C WING, 1ST FLOOR, ASHOKA VIHAR, XLO POINT, MIDC, AMBAD, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6569 **Page No** 8 of 9

Validity 25/07/2021 to 24/07/2023 **Last Amended on** 29/11/2021

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
14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous Metallic Material	Bend Test	ASTM A370, IS 1599
15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous metallic material	Brinell Hardness test	ASTM A370
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous metallic material	Brinell Hardness test	IS 1500 Pt-1
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-ferrous metallic material	Charpy V Notch Impact test	ASTM A370, IS 1757 Pt 1
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other non-ferrous metallic material	Tensile test - % Elongation	ASTM A370, ASTM E8/E8M-16ae1,IS 1608 Pt 1
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other non-ferrous metallic material	Tensile test - 0.2% P.S. with Extensometer	ASTM A370, ASTM E8/E8M-16ae1,IS 1608 Pt 1
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other non-ferrous metallic material	Tensile test - Ys	ASTM A370, ASTM E8/E8M-16ae1,IS 1608 Pt 1
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other non-ferrous metallic material	Tensile test -UTS	ASTM A370, ASTM E8/E8M-16ae1,IS 1608 Pt 1
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other non-ferrous Metallic Material Tubes / Pipes	Drift Expanding Test	ASTM A370, IS 2335
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded material	Toughness test (Charpy V Notch Impact test at subzero temperatures from 0 degree C to -35 degree C)	ASME Sec IX
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded material - Butt Joint	Guided Bend test	QW 160 of ASME SEC IX
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded material - Butt Joint	Toughness test	ASTM A370, QW 170 of ASME SEC IX
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material - Fillet Joint	Fracture Test & Macro Etch test	QW 180 of ASME SEC IX

SCOPE OF ACCREDITATION

Laboratory Name :	NEPPTUNE METALLURGICAL LABORATORIES, 3, C WING, 1ST FLOOR, ASHOKA VIHAR, XLO POINT, MIDC, AMBAD, NASHIK, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6569	**Page No**	9 of 9
Validity	25/07/2021 to 24/07/2023	**Last Amended on**	29/11/2021

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
27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded material- Butt Joints	Tension test	QW 150 of ASME SEC IX