National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NORDEN TECHNOLOGIES, NO:2 LIC COLONY SELVAPURAM, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 25/01/2023 to 24/01/2025 **Last Amended on** 14/03/2023

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	MECHANICAL- BUILDINGS MATERIALS	Reinforcing Steel	% of Elongation	IS 1608-1
2	MECHANICAL- BUILDINGS MATERIALS	Reinforcing Steel	Tensile Strength	IS 1608-1
3	MECHANICAL- BUILDINGS MATERIALS	Reinforcing Steel	Yield Stress	IS 1608-1
4	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys	% Elongation	ASTM B 557M
5	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys	% Reduction Area	ASTM B 557M
6	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys	0.2 % & 1% Proof Stress	ASTM B 557M
7	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys	Tensile Strength	ASTM B 557M
8	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys	Yield Strength	ASTM B 557M
9	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	% Elongation	ASTM E8/E8M
10	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	% Elongation	IS 1608 (Part -1)
11	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	% Reduction Area	ASTM E8/E8M
12	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	% Reduction Area	IS 1608 (Part -1)
13	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	0.2 % & 1% Proof Stress	IS 1608 (Part - 1)
14	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	0.2% & 1% Proof Stress	ASTM E8/E8M

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15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	Brinell Hardness (HBW 10/1000)	ASTM E 10
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	Brinell Hardness (HBW 10/1000)	IS 1500 (Part -1)
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	Brinell Hardness (HBW 2.5/187.5)	ASTM E 10
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	Brinell Hardness (HBW 2.5/187.5)	IS 1500 (Part-1)
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	Brinell Hardness (HBW 5/250)	ASTM E 10
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	Brinell Hardness (HBW 5/250)	IS 1500 (Part - 1)
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	Brinell Hardness (HBW 5/750)	ASTM E 10
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	Brinell Hardness (HBW 5/750)	IS 1500 (Part -1)
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	Tensile Strength	ASTM E8/E8M
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	Tensile Strength	IS 1608 (Part - 1)
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	Yield Strength	ASTM E8/E8M
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Copper Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys, Brass Base Alloys	Yield Strength	IS 1608 (Part - 1)
27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	% Elongation	ASTM A370
28	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	% Elongation	ASTM E8/E8M

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29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	% Elongation	IS 1608-1
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	% Elongation	ISO 6892-1
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	% Reduction Area	ASTM A370
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	% Reduction Area	ASTM E8/E8M
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	% Reduction Area	IS 1608-1
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	% Reduction Area	ISO 6892-1
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	0.2% & 1 % Proof Stress	ASTM A370
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	0.2% & 1% Proof Stress	ASTM E8/E8M
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	0.2% & 1% Proof Stress	IS 1608-1
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	0.2% & 1% Proof Stress	ISO 6892 -1
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Bend	ASTM A370
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Bend	IS 1599
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Bend	ISO 7438
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Impact Test - Charpy (room temperature to (-)120 deg C & at (-)196 deg C)	ASTM E 23

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43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Impact Test - Charpy (room temperature to (-)120 deg C & at (-)196 deg C)	IS 1499
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Impact Test - Charpy (room temperature to (-)120 deg C & at (-)196 deg C)	IS 1757
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Impact Test - Charpy (room temperature to (-)120 deg C & at (-)196 deg C)	ISO 148 (Part -1)
46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Tensile Strength	ASTM A 370
47	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Tensile Strength	ASTM E8/E8M
48	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Tensile Strength	IS 1608 -1
49	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Tensile strength	ISO 6892 - 1
50	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Yield strength	ASTM A370
51	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Yield Strength	ASTM E8/E8M
52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Yield Strength	IS 1608-1
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel & mild steel	Yield Strength	ISO 6892-1
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel , mild steel & Hardness Test Block	Brinell Hardness (HBW 10/3000)	ASTM E 10
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel , mild steel & Hardness Test Block	Brinell Hardness (HBW 10/3000)	IS 1500 (Part-1)
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel , mild steel & Hardness Test Block	Brinell Hardness (HBW 2.5/187.5)	IS 1500 (Part-1)

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57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel , mild steel & Hardness Test Block	Brinell Hardness (HBW 2.5/187.5)	ASTM E10
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel , mild steel & Hardness test block	Brinell Hardness (HBW 5/250)	ASTM E10
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel , mild steel & Hardness test block	Brinell Hardness (HBW 5/250)	IS 1500 (Part-1)
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel , mild steel & Hardness test block	Brinell Hardness (HBW 5/750)	ASTM E 10
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel , mild steel & Hardness test block	Brinell Hardness (HBW 5/750)	IS 1500 (Part-1)
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel, mild steel & Hardness test block	Rockwell Hardness (HRA)	ASTM E18
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel, mild steel & Hardness test block	Rockwell Hardness (HRA)	IS 1586 (Part-1)
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel, mild steel & Hardness test block	Rockwell Hardness (HRB)	IS 1586 (Part -1)
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel, mild steel & Hardness test block	Rockwell Hardness (HRBW)	ASTM E 18
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel, mild steel & Hardness test block	Rockwell Hardness (HRC)	ASTM E18
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel, mild steel & Hardness test block	Rockwell Hardness (HRC)	IS 1586 (Part -1)
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel, mild steel & Hardness test block	Vickers Hardness (10 Kg)	IS 1501 (Part-1)
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast Iron,stainless steels, Tool Steel, mild steel & Hardness test block	Vickers Hardness (HV10)	ASTM E92
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low Alloy Steel, stainless steels, Tool Steel	Portable Hardness - 10/3000	ASTM E110

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71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low Alloy Steel, stainless steels, Tool Steel, weld metal	VICKERS HARDNESS - HV30	ASTM E92
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Low Alloy Steel, stainless steels, Tool Steel, Weld Metal	VICKERS HARDNESS - HV30	IS 1501 (Part-1)
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium Base Alloys, Nickel Base Alloys	Rockwell Hardness (HRBW)	ASTM E 18
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium Base Alloys, Nickel Base Alloys	Rockwell Hardness (HRBW)	IS 1586 (Part -1)
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium Base Alloys, Nickel Base Alloys	Rockwell Hardness (HRC)	ASTM E 18
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium Base Alloys, Nickel Base Alloys	Rockwell Hardness (HRC)	IS 1586 (Part-1)
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Bend Test (Face Bend, Root Bend, Side Bend)	ASME SecIX, CL:QW-462.3
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Bend Test (Face Bend, Root Bend, Side Bend)	AWS D1.1/D1.1M, CL.4.9.3 to 4.9.3.3
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Bend Test (Face Bend, Root Bend, Side Bend)	ISO 5173
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Impact Test - Charpy (room temperature to (-)120 deg C & at (-)196 deg C)	IS 1499
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Impact Test - Charpy (room temperature to (-)120 deg C & at (-)196 deg C)	IS 1757 (Part-1)
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Tensile Strength	AWS D1.1/D1.1M, Cl: 4.9.3.4 to 4.9.3.6
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Tensile Strength	ISO 4136
84	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Inter-granular Correction Test (IGC)	ASTM A 923 (Method C)

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85	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Inter-granular Correction Test (IGC)	ASTM A262 - Practice C
86	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Inter-granular Corrosion Test (IGC)	ASTM A262 - Practice A
87	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Inter-granular Corrosion Test (IGC)	ASTM A262 - Practice E
88	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Inter-granular Corrosion Test (IGC)	ASTM A262-Practice B
89	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite in Cast Iron (Nodular Cast Iron, Grey Cast Iron & Malleable Cast Iron)	ASTM A 247
90	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite in Cast Iron (Nodular Cast Iron, Grey Cast Iron & Malleable Cast Iron)	IS 7754
91	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/ Ferritic Stainless Steels	Microstructure	ASTM A 923 Method A
92	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/ Ferritic Stainless Steels	Microstructure	ISO 17781
93	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/ Ferritic Stainless Steels	Microstructure Systematic Manual Point Count	ASTM E 562-19e1
94	MECHANICAL-METALLOGRAPHY TEST	FERRITIC-AUSTENITIC (DUPLEX) STAINLESS STEEL	INTERGRANULAR CORROSION	ISO 3651 (Part -2) Method A
95	MECHANICAL-METALLOGRAPHY TEST	FERRITIC-AUSTENITIC (DUPLEX) STAINLESS STEEL	Pitting and Crevice Corrosion	ASTM G48-11 Method - A
96	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel, Low Alloy Steel, stainless steels, Tool Steel	Grain Size (by ASTM Chart Comparison Method)	IS 4748
97	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel, Low alloy Steel, stainless steels, Tool Steel	Grain Size (by ASTM Comparison Method)	ASTM E 112
98	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel, Low Alloy Steel, stainless steels, Tool Steel	Macrostructure / visual examination	ASTM E 381
99	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel, Low Alloy Steel, stainless steels, Tool Steel	Microstructure	ASM Hand Book Volume 9:2004
100	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel, Low Alloy Steel, stainless steels, Tool Steel, Cast Iron	Macrostructure	IS 11371
101	MECHANICAL-METALLOGRAPHY TEST	Welded Materials	Macrostructure	ISO 17639

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102	MECHANICAL-METALLOGRAPHY TEST	Welded Materials	Mactrostructure	ASME SEC IX, QW-183, QW-184, QW-470,QW-471,QW-472,QW-473,QW-462.4,QW-462.5
103	MECHANICAL-METALLOGRAPHY TEST	Welded Materials	Microstructure	ASM Hand Book Volume 9: 2004