National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NARAYAN INDUSTRIES AND TECHNICAL SERVICES - TESTING LABORATORY, G-37, INDUSTRIAL AREA (TEXTILE ZONE), ROOMA, KANPUR, KANPUR NAGAR, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 12/10/2022 to 11/10/2024 **Last Amended on** 18/11/2022

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 & Aluminium Base Alloys	Chromium	ASTM E1251
2	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Chromium	IS 11035
3	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Copper	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Copper	IS 11035
5	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Iron	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Iron	IS 11035
7	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Magnesium	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Magnesium	IS 11035
9	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Manganese	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Manganese	IS 11035
11	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Silicon	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Silicon	IS 11035
13	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Titanium	ASTM E1251
14	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Titanium	IS 11035
15	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Zinc	ASTM E1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Zinc	IS 11035
17	CHEMICAL- METALS & ALLOYS	Carbon Steel	Aluminium	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Carbon Steel	Aluminium	IS 8811

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19	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon	IS 8811
21	CHEMICAL- METALS & ALLOYS	Carbon Steel	Chromium	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Carbon Steel	Chromium	IS 8811
23	CHEMICAL- METALS & ALLOYS	Carbon Steel	Copper	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Carbon Steel	Copper	IS 8811
25	CHEMICAL- METALS & ALLOYS	Carbon Steel	Manganese	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Carbon Steel	Manganese	IS 8811
27	CHEMICAL- METALS & ALLOYS	Carbon Steel	Molybdenum	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Carbon Steel	Molybdenum	IS 8811
29	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nickel	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nickel	IS 8811
31	CHEMICAL- METALS & ALLOYS	Carbon Steel	Phosphorus	ASTM E415
32	CHEMICAL- METALS & ALLOYS	Carbon Steel	Phosphorus	IS 8811
33	CHEMICAL- METALS & ALLOYS	Carbon Steel	Silicon	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Carbon Steel	Silicon	IS 8811
35	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulphur	ASTM E415
36	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulphur	IS 8811
37	CHEMICAL- METALS & ALLOYS	Carbon Steel	Titanium	ASTM E415

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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
38	CHEMICAL- METALS & ALLOYS	Carbon Steel	Titanium	IS 8811
39	CHEMICAL- METALS & ALLOYS	Carbon Steel	Vanadium	ASTM E415
40	CHEMICAL- METALS & ALLOYS	Carbon Steel	Vanadium	IS 8811
41	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
42	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
43	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
44	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
45	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	JIS G 1253
46	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
47	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
48	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
49	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
50	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
51	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
52	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
53	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
54	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	JIS G 1253
55	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
56	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879

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Last Amended on 18/11/2022

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57	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JIS G 1253
62	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Binder Content	IRC SP11 (Appendix 5C)
63	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Fire Point	IS 1448 (Part 69)
64	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1448 (Part 69)
65	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
66	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ Fly Ash Bricks	Efflorescence	IS 3495 (Part 3)
67	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ Fly Ash Bricks	Water Absorption	IS 3495 (Part 2)
68	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Consistency	IS 4031 (Part 4)
69	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Density	IS 4031 (Part 11)
70	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness (By Blaine's Air Permeability)	IS 4031 (Part 2)
71	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness (By Dry Sieving)	IS 4031 (Part 1)
72	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness (By Le-Chatelier)	IS 4031 (Part 3)
73	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Abrasion Value	IS 2386 (Part 4)
74	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Bulk Density	IS 2386 (Part 3)
75	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Crushing Value	IS 2386 (Part 4)

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76	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part 1)
77	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part 1)
78	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis (Gradation) (4.75 mm to 75 mm)	IS 2386 (Part 1)
79	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS 2386 (Part 3)
80	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 (Part 3)
81	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Bricks	Dimensions - Height	IS 1077 (Clause 6.2.1)
82	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Bricks	Dimensions - Length	IS 1077 (Clause 6.2.1)
83	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Bricks	Dimensions - Width	IS 1077 (Clause 6.2.1)
84	MECHANICAL- BUILDINGS MATERIALS	Concrete Beam	Flexural Strength	IS 516 (Part 1, Section 1)
85	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk Density	IS 2386 (Part 3)
86	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulking of Fine Aggregate	IS 2386 (Part 3)
87	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Organic Impurities	IS 2386 (Part 2)
88	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis (0.075 mm to 10 mm)	IS 2386 (Part 1)
89	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS 2386 (Part 3)
90	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 (Part 3)
91	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Cube, CC Core	Depth of Water Penetration under Water Pressure	IS 516 (Part 2, Section 1)
92	MECHANICAL- BUILDINGS MATERIALS	Precast Paving Block	Water Absorption	IS 15658
93	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	% Reduction in Area	IS 1608 (Part 1)

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94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Bend Test	IS 1599
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Face Bend of Welds	ASME Section IX
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Fracture Test on Welds	IS 3600 (Part 8)
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Longitudinal Root and Face Bend on Butt Welds	IS 3600 (Part 7)
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Percentage Elongation	ASTM E8/E8M
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Percentage Elongation	IS 1608 (Part 1)
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Percentage Reduction in Area	ASTM E8/E8M
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Proof Load Tests on Nuts and Bolts	IS 1367 (Part 6)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Proof Load Tests on Welds	ASTM A370
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Rockwell Hardness - B Scale	ASTM E18
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Rockwell Hardness - B Scale	IS 1586 (Part 1)
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Rockwell Hardness - C Scale	ASTM E18
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Rockwell Hardness - C Scale	IS 1586 (Part 1)
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Root Bend of Welds	ASME Section IX

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108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Side Bend Test on Welds	ASME Section IX
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Tensile Strength	ASTM E8/E8M
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Tensile Strength	IS 1608 (Part 1)
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Yield Strength	ASTM E8/E8M
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & its Products	Yield Strength	IS 1608 (Part 1)
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Mass per meter	IS 1786
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Re-bend Test	IS 1786
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes	Drift Expansion/ Flaring Test	ASTM A370
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes	Drift Expansion/ Flaring Test	IS 2335
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes	Flattening Test	ASTM A370
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes	Flattening Test	IS 2328
119	MECHANICAL-METALLOGRAPHY TEST	Aluminium and its Alloys	Microstructure of Metals and Alloys	ASM Handbook Volume IX
120	MECHANICAL-METALLOGRAPHY TEST	Aluminium Materials and Alloys	Metallography of Aluminum and Alloys	ASM Handbook Volume IX
121	MECHANICAL-METALLOGRAPHY TEST	Aluminium Materials, Alloys & Products	Average Grain Size	ASM Volume IX
122	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure of Graphite in Cast Iron	IS 7754

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123	MECHANICAL-METALLOGRAPHY TEST	Copper and its Alloys	Metallographic Examination of Copper & its Alloys	ASM Handbook Volume IX
124	MECHANICAL-METALLOGRAPHY TEST	Copper and its Alloys	Microstructure of Metals and Alloys	ASM Handbook Volume IX
125	MECHANICAL-METALLOGRAPHY TEST	Copper Materials, Alloys & Products	Average Grain Size	ASM Volume IX
126	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials and Alloys	Inclusion Content	ASTM E45
127	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials and Alloys	Inclusion Content	IS 4163
128	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials and Alloys	Microstructure of Metals and Alloys	ASM Handbook Volume IX
129	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & its Products	Average Grain Size	ASM Volume IX
130	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & its Products	Average Grain Size	IS 4748
131	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & its Products	Macro and Micro Examination of Welded Metal Joints	IS 3600 (Part 9)
132	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & its Products	Macro Examination Test of Welds	ASME Section IX
133	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & its Products	Macro-etch Test	IS 11371
134	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & its Products	Macro-etching of Metals and Alloys	ASTM E340
135	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & its Products	Micro-etching of Metals and Alloys	ASTM E407
136	MECHANICAL-METALLOGRAPHY TEST	Steel	Case Depth Measurement of Steel (Microscopic Method)	IS 6416
137	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburization (Microscopic Method)	ASTM E1077
138	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburization (Microscopic Method)	IS 6396
139	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
140	MECHANICAL- SOIL AND ROCK	Soil	Free Swelling Index	IS 2720 (Part 40)
141	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis - Wet (0.002 mm to 4.75 mm)	IS 2720 (Part 4)

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142	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Modified Dry Density)	IS 2720 (Part 8)
143	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Optimum Moisture Content)	IS 2720 (Part 8)
144	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
145	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
146	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3, Section 1)
147	MECHANICAL- SOIL AND ROCK	Soil	Water Content By Oven Drying Method	IS 2720 (Part 2)