National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NATIONAL SOIL TESTING AND RESEARCH LABORATORIES, PLOT NO.- 384, PHASE-II, INDUSTRIAL AREA, PANCHKULA, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6080 **Page No** 1 of 6

Validity 03/10/2022 to 02/10/2024 **Last Amended on** 28/01/2023

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	CHEMICAL- BUILDING MATERIAL	Cement	Alumina	IS- 4032
2	CHEMICAL- BUILDING MATERIAL	Cement	Calcium Oxide	IS- 4032
3	CHEMICAL- BUILDING MATERIAL	Cement	Combined Ferric Oxide and Alumina	IS - 4032
4	CHEMICAL- BUILDING MATERIAL	Cement	Ferric Oxide	IS- 4032
5	CHEMICAL- BUILDING MATERIAL	Cement	Insoluble Residue	IS- 4032
6	CHEMICAL- BUILDING MATERIAL	Cement	Loss on Ignition	IS- 4032
7	CHEMICAL- BUILDING MATERIAL	Cement	Magnesia	IS- 4032
8	CHEMICAL- BUILDING MATERIAL	Cement	Potassium Oxide	IS- 4032
9	CHEMICAL- BUILDING MATERIAL	Cement	Silica	IS- 4032
10	CHEMICAL- BUILDING MATERIAL	Cement	Sodium Oxide	IS- 4032
11	CHEMICAL- BUILDING MATERIAL	Cement	Sulphuric Anhydride	IS- 4032
12	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS-9879
13	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS-9879
14	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS-9879
15	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS-9879
16	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS-9879
17	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS-9879
18	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS-9879

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19	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS-9879
20	CHEMICAL- METALS & ALLOYS	TMT Steel Bars	Carbon	IS- 8811
21	CHEMICAL- METALS & ALLOYS	TMT Steel Bars	Manganese	IS- 8811
22	CHEMICAL- METALS & ALLOYS	TMT Steel Bars	Phosphorus	IS- 8811
23	CHEMICAL- METALS & ALLOYS	TMT Steel Bars	Silicon	IS- 8811
24	CHEMICAL- METALS & ALLOYS	TMT Steel Bars	Sulphur	IS- 8811
25	CHEMICAL- WATER	Drinking Water	Iron	IS- 3025 (P-53)
26	CHEMICAL- WATER	Drinking Water	Total Hardness (CaCO3)	IS-3025 (P-21)
27	CHEMICAL- WATER	Water	Alkalinity(CaCo3)	IS 3025 (P-23)
28	CHEMICAL- WATER	Water	Calcium(Ca)	IS 3025 (P-40)
29	CHEMICAL- WATER	Water	Chloride	IS- 3025 (P- 32)
30	CHEMICAL- WATER	Water	Chloride(Cl)	IS 3025 (P-32)
31	CHEMICAL- WATER	Water	Dissolved Solids	IS 3025 (P-16)
32	CHEMICAL- WATER	Water	Inorganic Matter	IS- 3025 (P-18)
33	CHEMICAL- WATER	Water	Iron as Fe	IS 3025 (P-53)
34	CHEMICAL- WATER	Water	Magnesium(Mg)	IS 3025 (P-46)
35	CHEMICAL- WATER	Water	Organic Matter	IS- 3025 (P- 18)
36	CHEMICAL- WATER	Water	pH	IS 3025 (P-11)
37	CHEMICAL- WATER	Water	pH Value	IS- 3025 (P-11)
38	CHEMICAL- WATER	Water	Pottasium	IS 3025 (P-45)
39	CHEMICAL- WATER	Water	Sodium	IS 3025 (P-45)
40	CHEMICAL- WATER	Water	Specific Conductance	IS 3025 (P-14)
41	CHEMICAL- WATER	Water	Sulphate as SO3	IS- 3025 (P- 24)-Sec-1
42	CHEMICAL- WATER	Water	Sulphate(So4)	IS- 3025 (P- 24)-Sec-1
43	CHEMICAL- WATER	Water	Suspended matter	IS- 3025 (P- 17)
44	CHEMICAL- WATER	Water	Suspended Solids	IS 3025 (P-17)
45	CHEMICAL- WATER	Water	Temperature	IS- 3025 (P- 9)

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46	CHEMICAL- WATER	Water	Total Hardness (CaCo3)	IS- 3025 (P- 21)
47	CHEMICAL- WATER	Water	Volume of 0.02N H2SO4 required to neutralize 100 ml sample of water using mixed indicator	IS- 3025 (P-23)
48	CHEMICAL- WATER	Water	Volume of 0.02N NaOH required to neutralize 100ml sample of water using phenolphthale in indicator	IS- 3025 (P-22)
49	CHEMICAL- WATER	Water Drinking	Alkalinity	IS- 3025 (P- 23)
50	CHEMICAL- WATER	Water Drinking	Calcium	IS- 3025 (P- 40)
51	CHEMICAL- WATER	Water Drinking	Chloride	IS- 3025 (P-32)
52	CHEMICAL- WATER	Water Drinking	Dissolved Solids	IS- 3025 (P- 16)
53	CHEMICAL- WATER	Water Drinking	Magnesium	IS- 3025 (P-46)
54	CHEMICAL- WATER	Water Drinking	pH Value	IS- 3025 (P-11)
55	CHEMICAL- WATER	Water Drinking	Residual Free Chlorine	IS- 3025 (P- 26)
56	CHEMICAL- WATER	Water Drinking	Sulphate	IS- 3025 (P-24) Sec-1
57	MECHANICAL- BUILDINGS MATERIALS	Auto Clave Cellular Aerated Concrete Blocks	Block Density	6441(P-1)
58	MECHANICAL- BUILDINGS MATERIALS	Auto Clave Cellular Aerated Concrete Blocks	Compressive Strength	6441(P-5)
59	MECHANICAL- BUILDINGS MATERIALS	Auto Clave Cellular Aerated Concrete Blocks	Dry Shrinkage	6441 (P-2)
60	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS- 1203
61	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS- 1205
62	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Bitumen Content	ASTM D- 2172
63	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension Height	IS- 1077
64	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension Width	IS-1077
65	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimensions Length	IS-1077
66	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS- 3495 (P-1)

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67	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS-3495 (P-2)
68	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS- 4031 (P-6)
69	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS- 4031 (P-4)
70	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS- 4031 (P-11)
71	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness By Blaine Air	IS- 4031 (P-2)
72	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by dry sieving	IS- 4031 (P-1)
73	MECHANICAL- BUILDINGS MATERIALS	Cement	Setting Time (Final)	IS- 4031 (P-5)
74	MECHANICAL- BUILDINGS MATERIALS	Cement	Setting Time (Initial)	IS- 4031 (P-5)
75	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness Le- Chatelier	IS- 4031 (P-3)
76	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Cubes	Compressive Strength	IS- 516 (P-1) Sec-1
77	MECHANICAL- BUILDINGS MATERIALS	Ceramic Glazed Tiles	Breaking Load	IS-13630 (P-6)
78	MECHANICAL- BUILDINGS MATERIALS	Ceramic Glazed Tiles	Modulus of Rupture	IS-13630 (P-6)
79	MECHANICAL- BUILDINGS MATERIALS	Ceramic Glazed Tiles	Scratch Hardness of Surface According to Mohs' Scale	IS-13630 (P-13)
80	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tile	Dimension (Height)	IS- 13630 (P-1)
81	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tile	Dimension (Length)	IS- 13630 (P-1)
82	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tile	Dimension (Width)	IS- 13630 (P-1)
83	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tile	Water Absorption	IS- 13630 (P-2)
84	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS- 2386 (P-3)
85	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS- 2386 (P-4)

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86	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS- 2386 (P-1)
87	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS- 2386 (P-1)
88	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS- 2386 (P-4)
89	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS- 2386 (P-4)
90	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Particle Size	IS- 2386 (P-1)
91	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS- 2386 (P-3)
92	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Blocks	Compressive Strength	IS- 15658
93	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Blocks	Water Absorption	IS- 15658
94	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material finer than 75 micron	IS- 2386 (P-1)
95	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Particle Size	IS- 2386 (P-1)
96	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS- 2386 (P-3)
97	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS- 2386 (P-3)
98	MECHANICAL- BUILDINGS MATERIALS	Particle Board	Density	IS- 2380 (P-3)
99	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Abrasion Resistance	15658
100	MECHANICAL- BUILDINGS MATERIALS	TMT Steel Bars	% Elongation	IS- 1786
101	MECHANICAL- BUILDINGS MATERIALS	TMT Steel Bars	Mass (Weight)	IS- 1786
102	MECHANICAL- BUILDINGS MATERIALS	TMT Steel Bars	Ultimate Tensile Strength	IS- 1608 (P-1)
103	MECHANICAL- BUILDINGS MATERIALS	TMT Steel Bars	Yield Strength	IS- 1608 (P-1)
104	MECHANICAL- BUILDINGS MATERIALS	Wood	Moisture Content	IS-1708 (P-1)

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105	MECHANICAL- BUILDINGS MATERIALS	Wood	Specific Gravity	IS-1708 (P-2)
106	MECHANICAL- SOIL AND ROCK	Soil	CBR (California Bearing Ratio)	IS- 2720 (P-16)
107	MECHANICAL- SOIL AND ROCK	Soil	Grain Size	IS- 2720 (P-4)
108	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS- 2720 (P-5)
109	MECHANICAL- SOIL AND ROCK	Soil	MDD (Heavy Compaction)	IS- 2720 (P-8)
110	MECHANICAL- SOIL AND ROCK	Soil	MDD (Light Compaction)	IS- 2720 (P-7)
111	MECHANICAL- SOIL AND ROCK	Soil	OMC (Heavy Compaction)	IS- 2720 (P-8)
112	MECHANICAL- SOIL AND ROCK	Soil	OMC (Light Compaction)	IS- 2720 (P-7)
113	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS- 2720 (P-5)