National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VISION ENGINEERING & CONSULTANCY SERVICES, R S NO 289, SANDESAR PATI, PATAN HARIJ LINK ROAD, PATAN, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 28/07/2021 to 27/07/2023 **Last Amended on** 16/05/2023

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- WATER	Water for construction purpose	Chlorides	IS 3025 (Part 32)
2	CHEMICAL- WATER	Water for construction purpose	Inorganic Solid	IS 3025 (Part 18)
3	CHEMICAL- WATER	Water for construction purpose	Organic Solid	IS 3025 (Part 18)
4	CHEMICAL- WATER	Water for construction purpose	pH	IS 3025 (Part 11)
5	CHEMICAL- WATER	Water for construction purpose	Sulphates	IS 3025 (Part 24)
6	CHEMICAL- WATER	Water for construction purpose	Total dissolved solids	IS 3025 (Part 16)
7	CHEMICAL- WATER	Water for construction purpose	Total Hardness	IS 3025 (Part 21)
8	CHEMICAL- WATER	Water for construction purpose	Total Suspended Solids Matter	IS 3025 (Part 17)
9	MECHANICAL- BUILDINGS MATERIALS	A.A.C Block	Compressive Strength	IS:6441 Part 5
10	MECHANICAL- BUILDINGS MATERIALS	A.A.C Block	Water absorption	IS:6441 Part 1
11	MECHANICAL- BUILDINGS MATERIALS	A.A.C Block	Block Density Test	IS:6441 Part 1
12	MECHANICAL- BUILDINGS MATERIALS	A.A.C Block	Dimension - Length	IS:2185 (Part 3)
13	MECHANICAL- BUILDINGS MATERIALS	A.A.C Block	Dimension - Width	IS:2185 (Part 3)
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on Heating	IS 1202
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific gravity	IS 1202
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity at 60°C	IS 1206: (Part 2)
17	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
18	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity at 135 °C	IS 1206 (Part 3)
19	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
20	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening point	IS 1205
21	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix / Core	Marshal Flow	ASTM D 6927

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22	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/ Core	Bitumen Content (Centrifuge)	ASTM (D 2172)
23	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/ Core	Marshall Stability	ASTM D 6927
24	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/ Core	Theoretical Maximum Specific Gravity	ASTM (D 2041)
25	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/ Core	Density	ASTM (D 2726)
26	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension - Height	IS 1077
27	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part 3)
28	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part 2)
29	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 (Part 1)
30	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension - Length	IS 1077
31	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension - Width	IS 1077
32	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Consistency	IS 4031 (Part 4)
33	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Density	IS 4031 (Part 11)
34	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Final Setting Time	IS 4031 (Part 5)
35	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	FIneness by Dry Sieving	IS 4031 (Part 1)
36	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Initial Setting Time	IS 4031 (Part 5)
37	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive Strength	IS 4031 (Part 6)
38	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness by Blaine Air Permeability	IS 4031 (Part 2)
39	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Le-Chatelier Method	IS 4031 (Part 3)
40	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	10% Fines Value	IS 2386 (Part 4)

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41	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Bulk Density (Loose and Compacted)	IS 2386 (Part 3)
42	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Crushing Value	IS 2386 (Part 4)
43	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Elongation Index	IS 2386 (Part 1)
44	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Flakiness Index	IS 2386 (Part 1)
45	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Impact Value	IS 2386 (Part 4)
46	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Soundness by Na2SO4 and Mgso4	IS 2386 (Part 5)
47	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Specific Gravity	IS 2386 (Part 3)
48	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Water Absorption	IS 2386 (Part 3)
49	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Abrasion Value (Loss Angeles)	IS 2386 (Part 4)
50	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Sieve Analysis	IS 2386 (Part 1)
51	MECHANICAL- BUILDINGS MATERIALS	Concrete	Weight Per Cubic Meter	IS 1199
52	MECHANICAL- BUILDINGS MATERIALS	Concrete (beam)	Flexural Strength	IS 516
53	MECHANICAL- BUILDINGS MATERIALS	Concrete (Cube, core, cylinder)	Compressive Strength	IS 516
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Loose and Compacted)	IS 2386 (Part 3)
55	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75µ	IS 2386 (Part 2)
56	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1)
57	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
58	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
59	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates (Sand)	Silt Content	IS 2386 (Part 1)

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60	MECHANICAL- BUILDINGS MATERIALS	Fresh concrete	Slump Test	IS 1199
61	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Comp. Strength by Accelerated Cured Concrete sample	IS 9013
62	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Block Density	IS 2185 (Part 1)
63	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Dimension (Length)	IS 2185 (Part 1)
64	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Water Absorption	S 2185 (Part 1)
65	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Dimension (Height)	IS 2185 (Part 1)
66	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive strength	IS 15658
67	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
68	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Tesile Strength	IS 1608 (Part 1)
69	MECHANICAL- BUILDINGS MATERIALS	Reinforcement steel	% Elongation	IS 1608 (Part 1)
70	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Mass Per Meter	IS 1786
71	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Yield Stress / 0.2 % Proof stress	IS 1608 (Part 1)
72	MECHANICAL- SOIL AND ROCK	Clay & Soils	Standard Penetration	IS 2131
73	MECHANICAL- SOIL AND ROCK	Natural building stone	Apparent specific gravity	IS 1124
74	MECHANICAL- SOIL AND ROCK	Natural building stone	True specific gravity	IS 1122
75	MECHANICAL- SOIL AND ROCK	Natural building stone	Water absorption	IS 1124
76	MECHANICAL- SOIL AND ROCK	Pavement	Benkelman Beam Deflection Speed rejection	IRC 81
77	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
78	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear test (Angle)	IS 2720 (Part 13)

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79	MECHANICAL- SOIL AND ROCK	Soil	Grain size Analysis(Dry& Wet)	IS 2720 (Part 4)
80	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction MDD	IS 2720 (Part 8)
81	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction OMC	IS 2720 (Part 8)
82	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction MDD	IS 2720 (Part 7)
83	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction OMC	IS 2720 (Part 7)
84	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS:2720 (Part 10)
85	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (av)	IS 2720:(Part 15)
86	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Cv)	IS 2720 (PART 15)
87	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - Cohesion	IS 2720 (Part 13)
88	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
89	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit (Penetrometer)	IS 2720 (Part 5)
90	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
91	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
92	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/Sec-1)
93	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part 41)
94	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS:2720 (Part 10)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Clay & Soils	Dry Density- (Core Cutting Method)	IS 2720 (Part 29)
2	MECHANICAL- SOIL AND ROCK	Clay & Soils	Dry Density- (Sand Replacement Method)	IS 2720 (Part 28)
3	MECHANICAL- SOIL AND ROCK	Soil	Field Moisture Content	IS 2720 (Part 2)