National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : INFRA SUPPORT ENGINEERING CONSULTANTS PRIVATE LIMITED, INFRA HOUSE, NO. 456/11/1, HENNUR BANDE, HENNUR BAGALUR MAIN ROAD, KALYANA NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 27/09/2021 to 26/09/2023 **Last Amended on** 18/10/2021

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
Permanent Facility				
1	CHEMICAL- WATER	Water for construction purpose	Acidity - Water Neutralization (To Neutralize 100 ml sample of water, using phenolphthalein as an indicator, using 0.02N NaOH)	IS 3025 (Part 22)
2	CHEMICAL- WATER	Water for construction purpose	Alkalinity- Water Neutralization (To Neutralize 100 ml sample of water, using phenolphthalein as an indicator, using 0.02N H2SO4)	IS 3025 (Part 23)
3	CHEMICAL- WATER	Water for construction purpose	Chloride (as Cl)	IS 3025 (Part 32)
4	CHEMICAL- WATER	Water for construction purpose	Inorganic Solids	IS 3025 (Part 18)
5	CHEMICAL- WATER	Water for construction purpose	Organic Solids	IS 3025 (Part 18)
6	CHEMICAL- WATER	Water for construction purpose	pH	IS 3025 (Part 11)
7	CHEMICAL- WATER	Water for construction purpose	Sulphates (as SO3)	IS 3025 (Part 24) (By Turbidity Method)
8	CHEMICAL- WATER	Water for construction purpose	Total Suspended Matter	IS 3025 (Part 17)
9	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Density	ASTM D2726/2726M
10	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Flow	ASTM D6927
11	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability Test	ASTM D6927
12	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 (Part 1)
13	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part 2)
14	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
15	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
16	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Flakiness Index	IS 2386 (Part 1)
17	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
18	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1)

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19	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
21	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks	Block Density	IS 2185 (Part 1)
22	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks	Compressive Strength	IS 2185 (Part 1)
23	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks	Water Absorption	IS 2185 (Part 1)
24	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516
25	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
26	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1)
27	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
28	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
29	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
30	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658
31	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Ductility	IS 1208
32	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Flash and Fire Point	IS 1209
33	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Penetration	IS 1203
34	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Softening Point	IS 1205
35	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Specific Gravity	IS 1202
36	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Stripping Value	IS 6241
37	MECHANICAL- SOIL AND ROCK	Rock	Point Load Test on Rock	IS 8764

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38	MECHANICAL- SOIL AND ROCK	Rock	Uniaxial Compressive Strength Test of Rock	IS 9143
39	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
40	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Pre-Consolidation Pressure)	IS 2720 (Part 15)
41	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Void Ratio)	IS 2720 (Part 15)
42	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Angle of Internal Friction)	IS 2720 (Part 12)
43	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion of Soil)	IS 2720 (Part 12)
44	MECHANICAL- SOIL AND ROCK	Soil	Free Swell index of Soil	IS 2720 (Part 40)
45	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis 1. Above 4.75 mm, 2. 4.75mm to 0.075 mm (Wet and Dry Analysis)	IS 2720 (Part 4)
46	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction Test - Maximum Dry Density	IS 2720 (Part 8)
47	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction Test - Optimum Moisture Content	IS 2720 (Part 8)
48	MECHANICAL- SOIL AND ROCK	Soil	Hydrometer Analysis	IS 2720 (Part 4)
49	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction Test - Maximum Dry Density	IS 2720 (Part 7)
50	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction Test - Optimum Moisture Content	IS 2720 (Part 7)
51	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
52	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content by Oven Drying Method	IS 2720 (Part 2)
53	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
54	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/Sec-1)
55	MECHANICAL- SOIL AND ROCK	Soil	Triaxial compression test (Angle of Internal Friction)	IS 2720 (Part 12)

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56	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression Test (Cohesion of Soil)	IS 2720 (Part 12)

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Site Facility				
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Ultrasonic Pulse Velocity Test	IS 516 (Part 5/Sec 1)
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete	Rebound Hammer Test	IS 13311 (Part 2)