National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : FORENSICS APPLICATION FOR CIVIL CONSULTANCY AND TESTING LAB, GF 2, AAI SHREE KHODIYAR KRUPA, HARIVILLA CHAR RASTA, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 21/12/2021 to 20/12/2023 **Last Amended on** -

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	Autoclaved Aerated Concrete	Bulk Density	IS 6441 (Part 1, Clause 4.1)
2	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Aerated Concrete	Compressive Strength	IS 6441 (Part 5, Clause 4.2)
3	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Aerated Concrete	Moisture Content	IS 6441 (Part 1, Clause 4.2)
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208 (Clause 4)
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203 (Clause 4)
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205 (Clause 4)
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202 (Clause 3)
8	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Compressive Strength	IS 3495 (Part 1, Clause 4.1, 4.2)
9	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimensions: Height	IS 1077 (Clause 6.2.1)
10	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimensions: Length	IS 1077 (Clause 6.2.1)
11	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimensions: Width	IS 1077 (Clause 6.2.1)
12	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Efflorescence	IS 3495 (Part 3, Clause 4.2)
13	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Water Absorption	IS 3495 (Part No. 2, Clause No. 4.1, 4.2)
14	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6, Clause 6)
15	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4, Clause 5)
16	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5, Clause 5)
17	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Blaine Air Permeability Method	IS 4031 (Part 2, Clause 5)
18	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Dry Sieving	IS 4031 (Part 1, Clause 4.4)

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19	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5, Clause 5)
20	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le-Chatelier	IS 4031 (Part 3, Clause 5.2)
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Crushing Value	IS 2386 (Part 4, Clause 7)
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact Value	IS 2386 (Part 4, Clause 4)
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1, Clause 5)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1, Clause 4)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS 2386 (Part 4, Clause 5)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (125 mm to 2.36 mm)	IS 2386 (Part 1, Clause 2)
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3, Clause 2.3, 2.4, 2.5)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3, Clause 2.3, 2.4, 2.5)
29	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 microns	IS 2386 (Part 1, Clause 3)
30	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (10 mm to 150 µm)	IS 2386 (Part 1, Clause 2)
31	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3, Clause 2.4)
32	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3, Clause 2.4)
33	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Workability by Slump	IS 1199 (Clause 5.1)
34	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength by Core/Cylinder	IS 516 (Clause 5.2)
35	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength by Cube	IS 516 (Clause 5.2)
36	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658 (Annexure D, Clause D-4)
37	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658 (Annexure C, Clause C-3)

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38	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Bend	IS 1599 (Clause 4.2.2, 4.3)
39	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Elongation percent	IS 1608 (Part 1)
40	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Mass per meter	IS 1786 (Clause 6.3)
41	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Re-bend	IS 1786 (Clause 9.4)
42	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Tensile Strength	IS 1608 (Part 1)
43	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Yield Strength	IS 1608 (Part 1, Clause 10.3.3.2)
44	MECHANICAL- SOIL AND ROCK	Rock	Density	IS 13030 (Clause 5)
45	MECHANICAL- SOIL AND ROCK	Rock	Porosity	IS 13030 (Clause 5)
46	MECHANICAL- SOIL AND ROCK	Rock	Uniaxial Compressive Strength (UCS)	IS 9143 (Clause 5)
47	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030 (Clause 4)
48	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS 2720 (Part 16, Clause 4, 5)
49	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test - Compression Index - Cc	IS 2720 (Part 15, Clause 4, 5)
50	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test - Preconsolidation Pressure - Pc	IS 2720 (Part 15, Clause 4, 5)
51	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - Angle of Internal Friction	IS 2720 (Part 13, Clause 5)
52	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - Cohesion	IS 2720 (Part 13, Clause 5)
53	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40, Clause 3)
54	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - MDD	IS 2720 (Part 8, Clause 5)
55	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - OMC	IS 2720 (Part 8, Clause 5)
56	MECHANICAL- SOIL AND ROCK	Soil	Hydrometer Test	IS 2720 (Part 4, Clause 5)

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57	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - MDD	IS 2720 (Part 7, Clause 5)
58	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - OMC	IS 2720 (Part 7, Clause 5)
59	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5, Clause 3, 4, 5, 6)
60	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2, Clause 5)
61	MECHANICAL- SOIL AND ROCK	Soil	Particle Size Distribution	IS 2720 (Part 4, Clause 4)
62	MECHANICAL- SOIL AND ROCK	Soil	Permeability Test - Constant Head Method	IS 2720 (Part 17, Clause 5)
63	MECHANICAL- SOIL AND ROCK	Soil	Permeability Test - Falling Head Method	IS 2720 (Part 17, Clause 6)
64	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5, Clause 8)
65	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6, Clause 5)
66	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3, Sec 1)
67	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3, Sec 1)
68	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part 41, Clause 5, 7)
69	MECHANICAL- SOIL AND ROCK	Soil	Tri-axial Shear Test - Angle of internal friction	IS 2720 (Part 11, Clause 5)
70	MECHANICAL- SOIL AND ROCK	Soil	Tri-axial Shear Test - Cohesion	IS 2720 (Part 11, Clause 5)
71	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength (UCS)	IS 2720 (Part 10, Clause 6)
72	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials - Reinforced Concrete Structures	Carbonation Test	IS 516 (Part 5, Sec 3)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Field Load Test	Lateral Load Test	IS 2911 (Part 4, Clause 8)
2	MECHANICAL- SOIL AND ROCK	Field Load Test	Vertical Load Test (Compression, Cyclic Load Test)	IS 2911 (Part 4, Clause 7.1)
3	MECHANICAL- SOIL AND ROCK	Filed Load Test	Pull Out Test (Uplift Test)	IS 2911 (Part 4, Clause 9)
4	MECHANICAL- SOIL AND ROCK	Load Field Test	Vertical Load Test (Compression, Maintained Load Test)	IS 2911 (Part 4, Clause 7.2)
5	MECHANICAL- SOIL AND ROCK	Soil	Density by Sand Replacement	IS 2720 (Part 28, Sec 1, Clause 4, Sec 2, Clause 10)
6	MECHANICAL- SOIL AND ROCK	Soil	Density by Soil Core	IS 2720 (Part 29, Clause 3)
7	MECHANICAL- SOIL AND ROCK	Soil	Field CBR	IS 2720 (Part 31, Clause 5)
8	MECHANICAL- SOIL AND ROCK	Soil	Field Moisture Content	IS 2720 (Part 2, Sec 5, Clause 28)
9	MECHANICAL- SOIL AND ROCK	Soil	Modulus of Sub-grade Reaction (k-Value)	IS 9214 (Clause 4)
10	MECHANICAL- SOIL AND ROCK	Soil	Plate Load Test	IS 1888 (Clause 4, 5)
11	MECHANICAL- SOIL AND ROCK	Soil and Rock	Soil Resistivity Test (ERT)	IS 15736 (Clause 5)
12	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials - Reinforced Concrete Structures	Bridge Load Test	IRC SP 51 (Clause 7)
13	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials - Reinforced Concrete Structures	Carbonation Test	IS 516 (Part 5, Sec 3)
14	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials - Reinforced Concrete Structures	Half Cell Potential Difference	ASTM C876 (Clause 7)

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15	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials - Reinforced Concrete Structures	Low Strain Pile Integrity Test	ASTM D5882 (Clause 6)
16	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials - Reinforced Concrete Structures	Low Strain Pile Integrity Test	IS 14893 (Clause 5.1.1)
17	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials - Reinforced Concrete Structures	Rebound Hammer Test	IS 13311 (Clause 6)
18	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials - Reinforced Concrete Structures	Rebound Hammer Test	IS 516 (Part 5, Sec 4)
19	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials - Reinforced Concrete Structures	Ultrasonic Pulse Velocity Test	ASTM C597 (Clause 4 & 5)
20	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials - Reinforced Concrete Structures	Ultrasonic Pulse Velocity Test	IS 516 (Part 5, Sec 1, Clause 2.4)