National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CAPITAL CONSULTANCY ENGINEERING RESEARCH LABORATORY, E-103, ELECTRONIC ESTATE, G.I.D.C., SECTOR-26, GANDHINAGAR, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 24/04/2023 to 23/04/2025 **Last Amended on** 22/05/2023

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	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Aerated Concrete Blocks	Block Density	IS 6441 (Part 1)
2	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Aerated Concrete Blocks	Compressive Strength	IS 6441 (Part 5)
3	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Aerated Concrete Blocks	Dimensions - Height	IS 2185 (Part 3)
4	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Aerated Concrete Blocks	Dimensions - Length	IS 2185 (Part 3)
5	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Aerated Concrete Blocks	Dimensions - Width	IS 2185 (Part 3)
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity at 60C	IS:1206 (Part II)
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS:1208
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point test	IS:1448 (Part 69)
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity at 135 C	IS:1206 (Part III)
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS:1203
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS:1205
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Solubility in Carbon Disulphide or Trichloroethylene	IS:1216
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS:1202
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Bitumen Content	ASTM D 2172
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix (DBM)	Density of Compacted Bitumen Mixures	ASTM D 2726 - 05a
16	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Flow Test	ASTM D 6927
17	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability	ASTM D 6927
18	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Theoretical Maximum Specific Gravity by Flask	ASTM D 2041

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19	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive strength	IS 3495 (Part-1)
20	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension - Length	IS 1077
21	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions - Height	IS 1077
22	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions - Width	IS 1077
23	MECHANICAL- BUILDINGS MATERIALS	Bricks	Effloroscence	IS 3495 (Part 3)
24	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part 2)
25	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Brick	Dimension - Height	IS 13757
26	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Brick	Water Absorption	IS 3495 (Part-2)
27	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Brick	Compressive Strength	IS 3495 (Part-1)
28	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Brick	Dimension - Length	IS 13757
29	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Brick	Dimension - Width	IS 13757
30	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6)
31	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4)
32	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part-11)
33	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5)
34	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Blaine Air Permeability	IS 4031 (Part 2)
35	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031(Part 5)
36	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le-chatelier methods	IS 4031 (Part 3)
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Loose & Rodded)	IS:2386 (Part-3)

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38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part)
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angles Abrasion value	IS 2386 (Part-4)
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Material Finer Than 75 micron	IS 2386 (Part 1)
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve analysis (2.36 to 100 mm)	IS 2386 (Part-1)
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na2So4	IS:2386 (Part-5)
46	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific gravity	IS 2386 (Part-3)
47	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Stripping Value	IS 6241
48	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Ten percent fine value	IS 2386 (Part-4)
49	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS 2386 (Part-3)
50	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516 (Part 4)
51	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Loose)	IS:2386 (Part-3)
52	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material finer than 75 micron	IS 2386 (Part-1)
53	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (150 µ to 10 mm)	IS 2386 (Part-1)
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Na2So4	IS:2386 (Part 5)
55	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific gravity	IS 2386 (part-3)
56	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS 2386 (Part 3)

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57	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Compacting Factor	IS 1199 (Part 2)
58	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Density of fresh concrete	IS 1199 (Part-3)
59	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump Test	IS 1199 (Part 2)
60	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive strength	IS 516
61	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength	IS 516 part 1 sec 1
62	MECHANICAL- BUILDINGS MATERIALS	Hollow And Solid Concrete Block	Block Density	IS 2185 (Part-1)
63	MECHANICAL- BUILDINGS MATERIALS	Hollow And Solid Concrete Block	Compressive Strength	IS 2185 (Part-1)
64	MECHANICAL- BUILDINGS MATERIALS	Hollow And Solid Concrete Block	Dimension - Height	IS 2185 (Part-1)
65	MECHANICAL- BUILDINGS MATERIALS	Hollow And Solid Concrete Block	Dimension - Length	IS 2185 (Part-1)
66	MECHANICAL- BUILDINGS MATERIALS	Hollow And Solid Concrete Block	Dimension - Width	IS 2185 (Part-1)
67	MECHANICAL- BUILDINGS MATERIALS	Hollow And Solid Concrete Block	Water Absorption	IS 2185 (Part-1)
68	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS:15658
69	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension - Height	IS 15658
70	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension - Length	IS 15658
71	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension - Width	IS 15658
72	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS:15658
73	MECHANICAL- BUILDINGS MATERIALS	Steel	% Total Elongation	IS 1608 and IS 1768
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires for concrete Reinforced	0.2 Proof Stress	IS 1608-1

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75	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires for concrete Reinforced	Bend test	IS 1599
76	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires for concrete Reinforced	Elongation	IS 1608-1
77	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires for concrete Reinforced	Re-bend	IS 1786
78	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires for concrete Reinforced	Tensile Strength	IS 1608-1
79	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires for concrete Reinforced	Weight per meter	IS 1786
80	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires for concrete Reinforced	Yield Stress	IS 1608-1
81	MECHANICAL- SOIL- ADVANCED	Soil	Permeability	IS 2720 (Part-17)
82	MECHANICAL- SOIL- ADVANCED	Soil	Swelling Pressure	IS 2720 (Part 41)
83	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Apparent Porosity	IS 1124
84	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Apparent Specific Gravity	IS1124
85	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Compressive Strength	IS 1121
86	MECHANICAL- SOIL AND ROCK	Natural Building Stone	True Specific Gravity	IS 1122
87	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Water Absorption	IS 1124
88	MECHANICAL- SOIL AND ROCK	Rok	Unconfined Compressive Strength	IS 9143
89	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Angle of Shearing Resistance	IS 2720 (Part 13)
90	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (4.75 to 0.075 mm)	IS 2720 (Part 4)
91	MECHANICAL- SOIL- BASIC	Soil	California Bearing Ratio	IS 2720 (Part 16)

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92	MECHANICAL- SOIL- BASIC	Soil	Consolidation Index - Cc	IS 2720 (Part 15)
93	MECHANICAL- SOIL- BASIC	Soil	Direct Shear - Cohesion	IS 2720 (Part 13)
94	MECHANICAL- SOIL- BASIC	Soil	Free Swell Index	IS 2720 (Part 40)
95	MECHANICAL- SOIL- BASIC	Soil	Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8)
96	MECHANICAL- SOIL- BASIC	Soil	Heavy Compaction - Optimum Moisture Content	IS 2720 (Part 8)
97	MECHANICAL- SOIL- BASIC	soil	Light Compaction - Maximum Dry Density	IS 2720 (Part 7)
98	MECHANICAL- SOIL- BASIC	Soil	Light Compaction - Optimum Moisture Content	Is 2720 (Part 7)
99	MECHANICAL- SOIL- BASIC	Soil	Liquid Limit	IS 2720 (Part 5)
100	MECHANICAL- SOIL- BASIC	Soil	Plastic Limit	IS 2720 (Part 5)
101	MECHANICAL- SOIL- BASIC	Soil	Shrinkage Limit	IS 2720 (Part-6)
102	MECHANICAL- SOIL- BASIC	Soil	Specific Gravity	IS 2720 (Part 3 / Sec 1)
103	MECHANICAL- SOIL- BASIC	Soil	Triaxial Compression - Angle of Internal Friction	IS 2720 (Part 11)
104	MECHANICAL- SOIL- BASIC	Soil	Triaxial Compression - Cohesion	IS 2720 (Part 11)
105	MECHANICAL- SOIL- BASIC	Soil	Unconfined Compressive Strength	IS 2720 (Part 10)
106	MECHANICAL- SOIL- BASIC	Soil	Water Content	IS 2720 (Part-2)
107	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete	Rebound Hammer	IS 516 Part 5 sec 4
108	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete	Ultrasonic Pulse Velocity	IS 516 (Part 5/Sec 1)