National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CIVIL MATERIAL TESTING LABORATORY (CMTL), R. N. G. PATEL INSTITUTE OF TECHNOLOGY - RNGPIT (SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY), AT: ISROLI, PO; AFWA, BARDOLI NAVSARI ROAD, BARDOLI, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 07/06/2023 to 06/06/2025 **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	Reinforcement Steel	Mass Per meter	IS 1786
2	MECHANICAL- BUILDINGS MATERIALS	Autoclave Cellular (Aerated) Concrete Blocks	Compressive Strength	IS: 6441 (Part 5)
3	MECHANICAL- BUILDINGS MATERIALS	Autoclave Cellular (Aerated) Concrete Blocks	Density	IS: 6441 (Part 1)
4	MECHANICAL- BUILDINGS MATERIALS	Autoclave Cellular (Aerated) Concrete Blocks	Height	IS: 2185 (Part 3)
5	MECHANICAL- BUILDINGS MATERIALS	Autoclave Cellular (Aerated) Concrete Blocks	Moisture Content	IS: 6441 (Part 1)
6	MECHANICAL- BUILDINGS MATERIALS	Autoclave Cellular (Aerated) Concrete Blocks	Width	IS: 2185 (Part 3)
7	MECHANICAL- BUILDINGS MATERIALS	Autoclave Cellular (Aerated) Concrete Blocks	Length	IS: 2185 (Part 3)
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (Part 2)
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS 1206 (Part 3)
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on Heating	IS 1212
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration Test	IS 1203
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Binder Content by Centrifuge Extractor	IRC SP 11/ASTM D 2172
16	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks Burnt Clay Fly Ash Bricks as per IS 13757 1993	Height	IS 1077
17	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks Burnt Clay Fly Ash Bricks as per IS 13757 1993	Length	IS 1077
18	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks Burnt Clay Fly Ash Bricks as per IS 13757 1993	Width	IS 1077

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19	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/Fly Ash Brick	Compressive Strength	IS 3495 (Part 1)
20	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/Fly Ash Brick	Efflorescence	IS 3495 (Part 3)
21	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/Fly Ash Brick	Water Absorption	IS 3495 (Part 2)
22	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Cubes	Compressive Strength	IS 516
23	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	10 % Fines Value	IS 2386 (P-4)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value by Los Angeles Machine	IS 2386 (Part 4)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis (4.75 to 80 mm)	IS 2386 (Part 1)
33	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
34	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 micron	IS 2386 (Part 1)
35	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
36	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
37	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis (0.15 to 4.75 mm)	IS 2386 (Part 1)

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38	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Compressive Strength	IS 4031 (Part 6)
39	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Final Setting Time	IS 4031 (Part 5)
40	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Initial Setting Time	IS 4031 (Part 5)
41	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Soundness by Le-Chatelier Method	IS 4031 (Part 3)
42	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Standard Consistency	IS 4031 (Part 4)
43	MECHANICAL- BUILDINGS MATERIALS	Paver block	Compressive Strength	IS 15658
44	MECHANICAL- BUILDINGS MATERIALS	Paver block	Water Absorption	IS 15658
45	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Elongation	IS 1608 (Part 1)
46	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Tensile Strength	IS 1608 (Part 1)
47	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Yield Stress (0.2 % Proof Stress)	IS 1608 (Part 1)
48	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel – “High Yield Strength Deformed bar/TMT bar/CRS bar	Bend Test	IS 1599
49	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel – “High Yield Strength Deformed bar/TMT bar/CRS bar”	Rebend Test	IS 1786
50	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
51	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
52	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (0.075 to 4.75 mm)	IS 2720 (Part 4)
53	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis by Hydrometer method	IS-2720 (Part 4)
54	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Maximum Dry Density)	IS 2720 (Part 8)
55	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Optimum Moisture Content)	IS 2720 (Part 8)
56	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Maximum Dry Density	IS 2720 (Part 7)

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57	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Optimum Moisture Content	IS 2720 (Part 7)
58	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit by Cone Penetrometer	IS 2720 (Part 5)
59	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Oven Drying Method	IS 2720 (Part 2)
60	MECHANICAL- SOIL AND ROCK	Soils	Plastic Limit	IS 2720 (Part 5)