National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MATEIAL TESTING LABORATORY, THE INSTITUTION OF ENGINEERS(I), BELAPUR LOCAL CENTRE, THE INSTITUTION OF ENGINEERS(I), GROUND FLOOR, PLOT NO.106, SECTOR 15,CBD, BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 15/11/2022 to 14/11/2024 **Last Amended on** 14/02/2023

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 Concrete Blocks	Bulk Density	IS 6441 (Part 1)
2	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Blocks	Compressive Strength	IS 6441 (Part 5)
3	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Bitumen Content	IRC SP 11 (Appendix 5, Clause C)
4	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Gradation (Section 500 of MoRTH)	IS 2386 (Part 1)
5	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Compressive Strength	IS 3495 (Part 1)
6	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Water Absorption	IS 3495 (Part 2)
7	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6)
8	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4)
9	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part 3)
10	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5)
11	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by dry sieving	IS 4031 (Part 1)
12	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5)
13	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le-Chatelier Method	IS 4031 (Part 3)
14	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4, Clause 2)
15	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1, Clause 5)
16	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS: 2386 (Part 1, Clause 4)
17	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4, Clause 4)

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18	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (4.75 mm to 63 mm) and GSB & WMM as per Section 400 of MoRTH (0.075 mm to 100 mm)	IS 2386 (Part 1, Clause 2)
19	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3, Clause 3)
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3, Clause 3)
21	MECHANICAL- BUILDINGS MATERIALS	Concrete Beam	Flexural Strength	IS 516
22	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516
23	MECHANICAL- BUILDINGS MATERIALS	Concrete Masonry Blocks	Compressive Strength	IS 2185 (Part 1, Annexure D)
24	MECHANICAL- BUILDINGS MATERIALS	Concrete Masonry Blocks	Water Absorption	IS 2185 (Part 1, Annexure E)
25	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (0.075 mm to 10 mm)	IS 2386 (Part 1, Clause 2)
26	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Silt Content	CPWD Specification (Appendix C, Clause 3.1.3.2)
27	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3, Clause 3)
28	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS: 2386 (Part 3, Clause 3)
29	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bar	Bend test	IS:1599
30	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bar	Re bend test	IS 1786
31	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bar	Ultimate Tensile Strength	IS 1608 (Part-1)
32	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bar	weight per meter	IS:1786
33	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bar	Yield Stress	IS 1608(Part 1)
34	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Penetration	IS 1203
35	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (0.075 mm to 19 mm)	IS 2720 (Part 4)

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36	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Oven Drying Method	IS 2720 (Part 2)
37	MECHANICAL- SOIL AND ROCK	Soil / Binding Material of GSB & WMM	Liquid Limit	IS 2720 (Part 5)
38	MECHANICAL- SOIL AND ROCK	Soil /Binding Material of GSB & WMM	Plastic Limit	IS 2720 (Part 5)
39	MECHANICAL- SOIL AND ROCK	Soil /GSB /WMM	California Bearing Ratio	IS 2720 (Part 16)
40	MECHANICAL- SOIL AND ROCK	Soil /GSB /WMM	Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8)
41	MECHANICAL- SOIL AND ROCK	Soil /GSB /WMM	Heavy Compaction - Optimum Moisture Content	IS 2720 (Part 8)
42	MECHANICAL- SOIL AND ROCK	Soil /GSB /WMM	Light Compaction - Maximum Dry Density	IS 2720 (Part 7)
43	MECHANICAL- SOIL AND ROCK	Soil /GSB /WMM	Light Compaction - Optimum Moisture Content	IS 2720 (Part 7)

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Site Facility				
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Ultrasonic Pulse Velocity	IS 516 (Part 5 /Section 1)