National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MATERIAL TESTING LABORATORY, G. H. RAISONI COLLEGE OF ENGINEERING, G. H. RAISONI COLLEGE OF ENGINEERIN, CRPF GATE NO. 3, DIGDOH HILL, HINGNA ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9696 **Page No** 1 of 3

Validity 24/07/2021 to 23/07/2023 **Last Amended on** 12/04/2023

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	Aggregate (Fine)	Bulk Density	IS 2386 (Part 3)
2	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Sieve Analysis (Finess Modulus)	IS 2386 (Part 1)
3	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Specific gravity by Pycnometer Method	IS 2386 (Part 3)
4	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Water Absorption	IS 2386 (Part3)
5	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Crushing Value	IS 2386 (Part 4)
6	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Impact Value	IS 2386 (Part 4)
7	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Los Angles Abrasion Value	IS 2386 (Part 4)
8	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Sieve Analysis (Finess Modulus)	IS 2386 (Part 1)
9	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Specific Gravity	IS 2386 (Part 3)
10	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Water Absorption	IS 2386 (Part 3)
11	MECHANICAL- BUILDINGS MATERIALS	Aggregate Course	Elongation Index	IS 2386 (Part 1)
12	MECHANICAL- BUILDINGS MATERIALS	Aggregate Course	Flakiness Index	IS 2386 (Part 1)
13	MECHANICAL- BUILDINGS MATERIALS	Aggregate Course	Sieve Analysis	IS 2386 (Part 1)
14	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness Dry Sieving	IS 4031 (Part1)
15	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength of Concrete Cube	IS 516
16	MECHANICAL- BUILDINGS MATERIALS	Concrete	Density	IS 2185 Part 1
17	MECHANICAL- BUILDINGS MATERIALS	Concrete	Water Absorption	IS 2185 (Part 1)
18	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	% Elongation	IS 1608 (Part1)

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19	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Ultimate Tensile Strength	IS 1608 (Part1)
20	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Weight per Meter	IS 1608 (Part1)
21	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Yield Stress	IS 1608 (Part 1)
22	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS 2720 (Part 16)
23	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion)	IS 2720 (Part 13)
24	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Angle of Internal Friction)	IS 2720 (Part 13)
25	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit Test	IS 2720 (Part 5)
26	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density - Heavy Compaction	IS 2720 (Part 8)
27	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density - Light Compaction	IS 2720 (Part 7)
28	MECHANICAL- SOIL AND ROCK	Soil	Natural Moisture Content	IS 2720 (Part 2)
29	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content - heavy Compaction	IS 2720 (Part 8)
30	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content - Light Compaction	IS 2720 (Part 7)
31	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit Test	IS 2720 (Part 5)
32	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3)

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Site Facility				
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Harden Concrete (at Site only)	Rebound Hammer Test	IS 516 (Part 5/Sec 4)