National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CIVIL SOLUTION PRIVATE LIMITED, GROUND FLOOR, CIRCLE NO. 249, WARD NO. 20, PUNAICHAK, PATNA, BIHAR, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10501 **Page No** 1 of 3

Validity 12/04/2022 to 11/04/2024 **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	Bricks (Clay or Fly Ash)	Compressive Strength	IS 3495 (Part 1)
2	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay or Fly Ash)	Efflorescence	IS 3495 (Part 3)
3	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay or Fly Ash)	Water Absoption	IS 3495 (Part 2)
4	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay)	Dimension (Length)	IS 1077
5	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay)	Dimension (Thikcness)	IS 1077
6	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay)	Dimension (Width)	IS 1077
7	MECHANICAL- BUILDINGS MATERIALS	Bricks (Fly Ash)	Dimension (Length)	IS 12894
8	MECHANICAL- BUILDINGS MATERIALS	Bricks (Fly Ash)	Dimension (Thickness)	IS 12894
9	MECHANICAL- BUILDINGS MATERIALS	Bricks (Fly Ash)	Dimension (Width)	IS 12894
10	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Bulk Density	IS 2386 (Part 3)
11	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Crushing Value	IS 2386 (Part 4)
12	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part 1)
13	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part 1)
14	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Impact Value	IS 2386 (Part 4)
15	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Los Angeles Abrasion Value	IS 2386 (Part 4)
16	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis (Sieve Size: 63 mm to 1.70 mm)	IS 2386 (Part 1)
17	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS 2386 (Part 3)
18	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 (Part 3)

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Certificate Number TC-10501 **Page No** 2 of 3

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19	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk Density	IS 2386 (Part 3)
20	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Organic Impurities	IS 2386 (Part 2)
21	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis (Sieve Size : 10 mm to 75 micron)	IS 2386 (Part 1)
22	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS 2386 (Part 3)
23	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 (Part 3)
24	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (Cube)	Compressive Strength	IS 516 (Part 1, Section 1)
25	MECHANICAL- BUILDINGS MATERIALS	Ordinary Cement or Blended Cement (Ordinary Portland Cement/ Portland Pozzolana Cement)	Compressive Strength	IS 4031 (Part 6)
26	MECHANICAL- BUILDINGS MATERIALS	Ordinary Cement or Blended Cement (Ordinary Portland Cement/ Portland Pozzolana Cement)	Consistency	IS 4031 (Part 4)
27	MECHANICAL- BUILDINGS MATERIALS	Ordinary Cement or Blended Cement (Ordinary Portland Cement/ Portland Pozzolana Cement)	Density	IS 4031 (Part 11)
28	MECHANICAL- BUILDINGS MATERIALS	Ordinary Cement or Blended Cement (Ordinary Portland Cement/ Portland Pozzolana Cement)	Final Setting Time	IS 4031 (Part 5)
29	MECHANICAL- BUILDINGS MATERIALS	Ordinary Cement or Blended Cement (Ordinary Portland Cement/ Portland Pozzolana Cement)	Initial Setting Time	IS 4031 (Part 5)
30	MECHANICAL- BUILDINGS MATERIALS	Ordinary Cement or Blended Cement (Ordinary Portland Cement/ Portland Pozzolana Cement)	Soundness (By Le-Chatelier)	IS 4031 (Part 3)
31	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving (Paver Blocks/ Interlocking Tiles)	Compressive Strength	IS 15658
32	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving (Paver Blocks/ Interlocking Tiles)	Water Absorption	IS 15658
33	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR Value - 96 Hours Soaked Condition)	IS 2720 (Part 16)
34	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - Angle of Internal Friction (Phi Value)	IS 2720 (Part 13)
35	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - Cohesion Intercept (C Value)	IS 2720 (Part 13)
36	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)

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37	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Sieve Size : 19 mm, 4.75 mm, 2.0 mm, 425 micron, 75 micron)	IS 2720 (Part 4)
38	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Maximum Dry Density, MDD)	IS 2720 (Part 8)
39	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Optimum Moisture Content, OMC)	IS 2720 (Part 8)
40	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
41	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2)
42	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
43	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3, Section 1)