National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SOIL TEST AND FOUNDATION DESIGN, SHIV SADAN BUILDING, NORTH OF PILLAR NO. - 38, RAJA BAZAR, BAILEY ROAD, PATNA, BIHAR, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9947 **Page No** 1 of 3

Validity 06/10/2021 to 05/10/2023 **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 Absorption	IS 3495 (Part-2)
4	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay)	Dimension (Length)	IS 1077
5	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay)	Dimension (Thickness)	IS 1077
6	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay)	Dimension (Width)	IS 1077
7	MECHANICAL- BUILDINGS MATERIALS	Bricks (Fly Ash)	Diemsnion (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 Aggregate	Bulk Density	IS 2386 (Part-3)
11	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-4)
12	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-1)
13	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part-1)
14	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part-4)
15	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS 2386 (Part-4)
16	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve Sizes - 63mm, 40mm, 31.5mm, 25mm, 20mm, 16mm, 12.5mm, 10mm, 8mm, 6.3mm, 4.75mm, 2.36mm, 1.70mm)	IS 2386 (Part-1)
17	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3)

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18	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part-3)
19	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part-3)
20	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (Part-2)
21	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Sieve Sizes - 10mm, 4.75mm, 2.36mm, 1.18mm, 600 micron, 300 micron, 150 micron, 75 micron)	IS 2386 (Part-1)
22	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part-3)
23	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part-3)
24	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (Cube)	Compressive Strength	IS 516
25	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement or Blended Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part-6)
26	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement or Blended Cement (OPC/PPC)	Consistency	IS 4031 (Part-4)
27	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement or Blended Cement (OPC/PPC)	Final Setting Time	IS 4031 (Part-5)
28	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement or Blended Cement (OPC/PPC)	Initial Setting Time	IS 4031 (Part-5)
29	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement or Blended Cement (OPC/PPC)	Soundness (By Le-Chatelier)	IS 4031 (Part-3)
30	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement or Blended Cement (OPC/PPC)	Specific Gravity	IS 4031 (Part-11)
31	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement or Blended Cement (OPC/PPC)	Specific Surface Area (Fineness - By Blaine's Method)	IS 4031 (Part-2)
32	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving	Compressive Strength	IS 15658
33	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving	Water Absorption	IS 15658
34	MECHANICAL- SOIL AND ROCK	Rock	Compressive Strength	IS 9143
35	MECHANICAL- SOIL AND ROCK	Rock	Density	IS 13030

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36	MECHANICAL- SOIL AND ROCK	Rock	Point Load Index	ASTM D-5718
37	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
38	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR Value) (96 Hours Soaked Condition)	IS 2720 (Part-16)
39	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - Angle of Internal Friction (Phi Value)	IS 2720 (Part-13)
40	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - Cohesion Intercept (C Value)	IS 2720 (Part-13)
41	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part-40)
42	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Sieve Size - 19mm, 4.75mm, 2.0mm, 425 micron, 75 micron)	IS 2720 (Part-4)
43	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - MDD (Maximum Dry Density)	IS 2720 (Part-8)
44	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - OMC (Optimum Moisture Content)	IS 2720 (Part-8)
45	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part-5)
46	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part-2)
47	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part-5)
48	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part-3/Sec-1)
49	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test - Angle of Internal Friction (Phi Value)	IS 2720 (Part-11 & 12)
50	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test - Cohesion Intercept (C Value)	IS 2720 (Part-11 & 12)