National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SAI GEOTECHNICAL LAB, A-13 BASEMENT PANCHRATNA APPARTMENT, SUBHANPURA ROAD, SUBHANPURA, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8263 **Page No** 1 of 4

Validity 18/02/2023 to 17/02/2025 **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	CHEMICAL- WATER	Construction Water	Chloride as Cl	IS 3025 (Part - 32)
2	CHEMICAL- WATER	Construction Water	pH Value	IS 3025 (Part - 11)
3	CHEMICAL- WATER	Construction Water	Sulphate as SO3	IS 3025 (Part - 24) Sec 1:
4	CHEMICAL- WATER	Construction Water	Total Dissolved Solids	IS 3025 (Part - 16)
5	CHEMICAL- WATER	Construction Water	Volume of (0.02 N H2SO4 required to neutralize 100ml water sample using mixed indicator)	IS 3025 (Part - 23)
6	CHEMICAL- WATER	Construction Water	Volume of (0.02 N NaOH required to neutralize 100ml water sample using Phenolphthalein indicator)	IS 3025 (Part - 22)
7	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Aggregate Abrasion Value	IS 2386 (Part - 4)
8	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	10% Fine Value	IS 2386 (Part - 4)
9	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Crushing Value	IS 2386 (Part - 4)
10	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Elongation	IS 2386 (Part - 1)
11	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Flakiness	IS 2386 (Part - 1)
12	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Impact Value	IS 2386 (Part - 4)
13	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Sieve Analysis (80mm to 4.75mm)	IS 2386 (Part - 1)
14	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Specific Gravity	IS 2386 (Part - 3)
15	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Water Absorption	IS 2386 (Part - 3)
16	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Sieve Analysis (4.75mm to 0.075mm)	IS 2386 (Part - 1)
17	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Specific Gravity	IS 2386 (Part - 3)
18	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Water Absorption	IS 2386 (Part - 3)

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19	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
20	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration @ 25 oC (1/10 mm)	IS 1203
21	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
22	MECHANICAL- BUILDINGS MATERIALS	Brick (Burnt)	Compressive Strength	IS 3495 (Part - 1)
23	MECHANICAL- BUILDINGS MATERIALS	Brick (Burnt)	Dimension - Height	IS 1077
24	MECHANICAL- BUILDINGS MATERIALS	Brick (Burnt)	Dimension - Length	IS 1077
25	MECHANICAL- BUILDINGS MATERIALS	Brick (Burnt)	Dimension - Width	IS 1077
26	MECHANICAL- BUILDINGS MATERIALS	Brick (Burnt)	Efflorescence	IS 3495 (Part - 3)
27	MECHANICAL- BUILDINGS MATERIALS	Brick (Burnt)	Water Absorption	IS 3495 (Part - 2)
28	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part - 6)
29	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Final Setting Time	IS 4031 (Part - 5)
30	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness by Blain's Air Permeability	IS 4031 (Part - 2)
31	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Initial Setting Time	Is 4031 (Part - 5)
32	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness by Lechatlier	IS 4031 (Part - 3)
33	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Standard Consistency	IS 4031 (Part - 4)
34	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive strength of Hardened Concrete in Concrete Cube	IS 516 (Part-1) Sec:1
35	MECHANICAL- BUILDINGS MATERIALS	Concrete	Workability of Fresh Concrete (Slump)	IS 1199
36	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Elongation	IS 1608

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37	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Mass Per Meter	IS 1608
38	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Ultimate Tensile Stress	IS 1608
39	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Yield Stress	IS 1608
40	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 (Part - 2)
41	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limit (Liquid Limit)	IS 2720 (Part - 5)
42	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limit (Plastic Limit)	IS 2720 (Part - 5)
43	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio-Unsoaked	IS 2720 (Part - 16)
44	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Pc) - Pre Consolidation Pressure	IS 2720 (Part - 15)
45	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Cc) - Compression Index	IS 2720 (Part - 15)
46	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - (Phi) (Angle of Shearing Resistance)	IS 2720 (Part 13)
47	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - C (Cohesion)	IS 2720 (Part 13)
48	MECHANICAL- SOIL AND ROCK	Soil	Dry density relation using - Light Compaction (MDD)	IS 2720 (Part - 7)
49	MECHANICAL- SOIL AND ROCK	Soil	Dry density relation using - Heavy Compaction (MDD)	IS 2720 (Part - 8)
50	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part -40)
51	MECHANICAL- SOIL AND ROCK	Soil	Gradation by Dry method (80 mm to 0.425 mm)	IS 2720 (Part - 4)
52	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part-3, Sec-I)
53	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part 41)
54	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Compression - C (Cohesion)	IS 2720 (Part 11)

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55	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Compression (Phi) (Angle of Shearing Resistance)	IS 2720 (Part-11)
56	MECHANICAL- SOIL AND ROCK	Soil	Water Content relation using - Heavy Compaction (OMC)	IS 2720 (Part - 8)
57	MECHANICAL- SOIL AND ROCK	Soil	Water Content relation using - Light Compaction (OMC)	IS 2720 (Part - 7)