



(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name	SAI GEOTECHNICAL LAB, SUBHANPURA ROAD, SUB	A-13 BASEMENT PANCHRA BHANPURA, VADODARA, GU	TNA APPARTMENT, JJARAT , INDIA
Accreditation Standard	ISO/IEC 17025:2005		
Certificate Number	TC-8263	Page No. :	1 / 6
Validity	03/01/2019 to 02/01/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
		Ре	rmanent Facility		
1	CHEMICAL- WATER	Construction Water	Chloride as Cl	IS 3025 (Part - 32): 1988	5 mg/l to 5000 mg/l
2	CHEMICAL- WATER	Construction Water	pH Value	IS 3025 (Part - 11) : 1983	3 to 12
3	CHEMICAL- WATER	Construction Water	Sulphate as SO4	IS 3025 (Part - 24) : 1986	10 mg/l to 10000 mg/l
4	CHEMICAL- WATER	Construction Water	Total Dissolved Solids	IS 3025 (Part - 16) : 1984	5 mg/l to 20000 mg/l
5	CHEMICAL- WATER	Construction Water	Volume of (0.02 N H2SO4 required to neutralize 100ml water sample using mix indicator)	IS 3025 (Part - 23): 1986	0.05 ml to 100 ml
6	CHEMICAL- WATER	Construction Water	Volume of (0.02 N NaOH required to neutralize 100ml water sample using Phenolphthalein indicator)	IS 3025 (Part - 22) : 1986	0.05 ml to 100 ml
7	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	10% Fine Value	IS 2386 (Part - 4): 1963	50 kN to 400 kN
8	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Abrasion	IS 2386 (Part - 4): 1963	1 % to 60 %
9	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Crushing Value	IS 2386 (Part - 4): 1963	1 % to 60 %





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10	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Elongation	IS 2386 (Part - 1): 1963	1 % to 70 %
11	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Flakiness	IS 2386 (Part - 1): 1963	1 % to 70 %
12	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Impact Value	IS 2386 (Part - 4): 1963	1 % to 60 %
13	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Size and Grading	IS 2386 (Part - 1): 1963	80 mm to 4.75 mm
14	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Specific Gravity	IS 2386 (Part - 3): 1996	1.5 to 4
15	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Water Absorption	IS 2386 (Part - 3): 1963	0.1 % to 10 %
16	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Size and Grading	IS 2386 (Part - 1): 1963	4.75 mm to 0.075 mm
17	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Specific Gravity	IS 2386 (Part - 3): 1963	1.5 to 3.5
18	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Water Absorption	IS 2386 (Part - 3): 1963	0.1 % to 10 %





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19	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208: 1978	10 cm to 100 cm
20	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203: 1978	1 mm to 250 mm
21	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205: 1978	30 oC to 125 oC
22	MECHANICAL- BUILDINGS MATERIALS	Brick	Compressive Strength	IS 3495 (Part - 1): 1992	1 N/mm2 to 15 N/mm2
23	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension - Height	IS 1077: 1992	1000 mm to 2300 mm
24	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension - Length	IS 1077: 1992	3000 mm to 5000 mm
25	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension - Width	IS 1077: 1992	1500 mm to 2500 mm
26	MECHANICAL- BUILDINGS MATERIALS	Brick	Efflorescence	IS 3495 (Part - 3) : 1992	Qualitative(Visual Observation)
27	MECHANICAL- BUILDINGS MATERIALS	Brick	Water Absorption	IS 3495 (Part - 2): 1992	1 % to 40 %





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28	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part - 6): 1988	10 N/mm2 to 70 N/mm2
29	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Final Setting Time	IS 4031 (Part - 5): 1988	100 Minute to 700 Minute
30	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness by Blain's Air Permeability	IS 4031 (Part - 2): 1999	100 m²/kg to 400 m²/kg
31	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Initial Setting Time	Is 4031 (Part - 5): 1988	30 Minute to 300 Minute
32	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness by Lechatlier	IS 4031 (Part - 3): 1988	0.1 mm to 12 mm
33	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Standard Consistency	IS 4031 (Part - 4): 1988	15 % to 50 %
34	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength of Hardened Concrete	IS 516: 1959	5 N/mm ² to 80 N/mm ²
35	MECHANICAL- BUILDINGS MATERIALS	Concrete	Workability of Fresh Concrete (Slump)	IS 1199: 1959	0 mm to 200 mm
36	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HSDS Steel Bars (Reinforcement Steel)	Elongation	IS 1608 part 1: 2018	5 % to 40 %





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37	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HSDS Steel Bars (Reinforcement Steel)	Ultimate Tensile Stress	IS 1608 part 1: 2018	200 N/mm2 to 900 N/mm2
38	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HSDS Steel Bars (Reinforcement Steel)	Weight per Meter	IS 1786: 2008 RA 2013	0.1 kg/m to 20 kg/m
39	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HSDS Steel Bars (Reinforcement Steel)	Yield stress	IS 1608 part 1: 2018	200 N/mm2 to 900 N/mm2
40	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limit (Liquid Limit)	IS 2720 (Part - 5): 1985	15 % to 400 %
41	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limit (Plastic Limit)	IS 2720 (Part - 5): 1985	10 % to 200 %
42	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limit (Plasticity Index)	IS 2720 (Part - 5): 1985	0 NP to 100 %
43	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio-Unsoaked	IS 2720 (Part - 16): 1987	1 % to 80 %
44	MECHANICAL- SOIL AND ROCK	Soil	Gradation	IS 2720 (Part - 4): 1985	80 mm to 0.075 mm
45	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part - 2): 1973	1 % to 50 %
46	MECHANICAL- SOIL AND ROCK	Soil	Water Content - Dry density relation using Heavy Compaction (MDD)	IS 2720 (Part - 8): 1983	1.5 g/cc to 3 g/cc





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47	MECHANICAL- SOIL AND ROCK	Soil	Water Content - Dry density relation using Heavy Compaction (OMC)	IS 2720 (Part - 8): 1983	5 % to 25 %
48	MECHANICAL- SOIL AND ROCK	Soil	Water Content - Dry density relation using Light Compaction (MDD)	IS 2720 (Part - 7): 1980	1.5 g/cc to 2.5 g/cc
49	MECHANICAL- SOIL AND ROCK	Soil	Water Content - Dry density relation using Light Compaction (OMC)	IS 2720 (Part - 7): 1980	5 % to 30 %