





# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-8263 Page No. : 2 / 6

Validity 03/01/2019 to 02/01/2021 Last Amended on -

'In view of the transition deadline for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020.'

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
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/mm <sup>2</sup> to 15 N/mm <sup>2</sup>
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/mm <sup>2</sup> to 70 N/mm <sup>2</sup>
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 m <sup>2</sup> /kg to 400 m <sup>2</sup> /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 <sup>2</sup> to 80 N/mm <sup>2</sup>
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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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 %