National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SANTKRUPA GEOTECH, PLOT NO. 38, VADVALA ESTATE, ZAK GIDC, ZAK JALUNDRA ROAD, P.O. PARDHOL, DEHGAM, GANDHINAGAR, GUJARAT, INDIA

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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	Autoclave Aerated Block	Block Density	IS 6441 Part - 1
2	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Compressive Strength	IS 6441 Part - 5
3	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Dimension - Height	IS 2185 Part - 3
4	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Dimension - Length	IS 2185 Part - 3
5	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Dimension - Width	IS 2185 Part - 3
6	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Drying Shrinkage	IS 6441 Part - 2
7	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Moisture Content	IS 6441 Part - 1
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (Part - 2)
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Cleveland open cup fire point	IS 1448 (Part - 69)
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Cleveland open cup flash point	IS 1448 (Part - 69)
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Effect of heat and air by thin film oven test	IS 9382
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS 1206 (Part - 3)
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Solubility in trichloroethylene	IS 1216
17	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
18	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Binder Content	IRC SP 11

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19	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Density	ASTM D2726
20	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Marshall Stability	ASTM D6927
21	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Flow	ASTM D6927
22	MECHANICAL- BUILDINGS MATERIALS	Brick	Compressive strength	IS 3495 Part - 1
23	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension - Height	IS 1077
24	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension - Length	IS 1077
25	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension - Width	IS 1077
26	MECHANICAL- BUILDINGS MATERIALS	Brick	Efflorescence	IS 3495 Part - 3
27	MECHANICAL- BUILDINGS MATERIALS	Brick	Water Absorption	IS 3495 Part - 2
28	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive strength	IS 4031 Part 6
29	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 Part 4
30	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 Part- 11
31	MECHANICAL- BUILDINGS MATERIALS	Cement	Final setting time	IS 4031 Part 5
32	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by blain air permeability	IS 4031 Part 2
33	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Dry Sieving	IS 4031 Part- 2
34	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial setting time	IS 4031 Part 5
35	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by le chatterer method	IS 4031 Part 3
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10 percent fines value	IS 2386, Part - 4
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Loose & Rodded)	IS 2386, Part 3

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38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386, Part-4
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386, Part 1
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386, Part 1
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386, Part-4
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion value	IS 2386, Part-4
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Material Finer Than 75 micron	IS 2386, Part 1, Clause No 3
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis / Gradation of Aggregate (4.75 micron to 125 mm)	IS 2386, Part - 1
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na2So4 & MgSo4	IS 2386 Part 5
46	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386, Part 3
47	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Stripping value	IS 6241
48	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386, Part 3
49	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Loose & compacted)	IS 2386, Part 3
50	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer Than 75 micron	IS 2386 Part 1 Clause No 3
51	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (10 mm to 150 micron)	IS 2386, Part 1
52	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Na2So4 & MgSo4	IS 2386 Part 5
53	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific gravity	IS 2386, Part 3
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS 2386, Part 3
55	MECHANICAL- BUILDINGS MATERIALS	Flooring / Ceramic & Vitrified Tiles	Dimension (Length)	IS 13630 Part-1

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56	MECHANICAL- BUILDINGS MATERIALS	Flooring / Ceramic & Vitrified Tiles	Dimension (Thickness)	IS 13630 Part-1
57	MECHANICAL- BUILDINGS MATERIALS	Flooring / Ceramic & Vitrified Tiles	Dimension (Width)	IS 13630 Part-1
58	MECHANICAL- BUILDINGS MATERIALS	Flooring / Ceramic & Vitrified Tiles	Water Absorption	IS 13630, Part-2
59	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Density by Le-Chatelier flask	IS 1727
60	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Fineness by blain air permeability method	IS 1727
61	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Residue on 45 micron IS sieve	IS 1727
62	MECHANICAL- BUILDINGS MATERIALS	Fresh concrete	Density of fresh concrete	IS 1199
63	MECHANICAL- BUILDINGS MATERIALS	Fresh concrete	Slump test	IS 1199
64	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive strength	IS 516
65	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Flexural strength	IS 516
66	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
67	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension – Height	IS 15658
68	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension - Length	IS 15658
69	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension - Width	IS 15658
70	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
71	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Bend Test	IS 1599
72	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Elongation	IS 1608 (Part-1)
73	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Mass per Meter	IS 1786
74	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Re bend	IS 1786

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75	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Ultimate Tensile Strength	IS 1608 (Part-1)
76	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Yield Stress	IS 1608 (Part-1)
77	MECHANICAL- SOIL AND ROCK	Rock	Dry Density	IS 13030
78	MECHANICAL- SOIL AND ROCK	Rock	Point load strength index	IS 8764
79	MECHANICAL- SOIL AND ROCK	Rock	Unconfined compressive strength	IS 9143
80	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
81	MECHANICAL- SOIL AND ROCK	Soil	CBR- California bearing ratio	IS 2720 Part 16
82	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test, Cc (compression index)	IS 2720 (Part 15)
83	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear – Cohesion	IS 2720 (Part 13)
84	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear test - Angle of Shearing Resistance	IS 2720 (Part 13)
85	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
86	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 (Part 4)
87	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8)
88	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction – Optimum Moisture Content	IS 2720 (Part 7)
89	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction – Maximum Dry Density	IS 2720 (Part 7)
90	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction – Optimum Moisture Content	IS 2720 (Part 7)
91	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 Part 5
92	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 Part 2
93	MECHANICAL- SOIL AND ROCK	Soil	Permeabilty of soil - Constant Head	IS 2720, Part 17

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94	MECHANICAL- SOIL AND ROCK	Soil	Permeabilty of soil - Falling Head	IS 2720 Part 17
95	MECHANICAL- SOIL AND ROCK	Soil	Plastic limit	IS 2720 (Part 5)
96	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
97	MECHANICAL- SOIL AND ROCK	Soil	Sieve Analysis by Hydrometer Method	IS 2720 (Part 4)
98	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3)
99	MECHANICAL- SOIL AND ROCK	Soil	Swelling pressure	IS 272 Part 41
100	MECHANICAL- SOIL AND ROCK	Soil	Triaxial compression test - (Shear angle)	IS 2720 Part 11
101	MECHANICAL- SOIL AND ROCK	Soil	Triaxial compression test - without measurement of pore water pressure - cohesion	IS 2720 Part 11
102	MECHANICAL- SOIL AND ROCK	Soil	Unconfined compressive strength	IS 2720 (Part 10)
103	MECHANICAL- SOIL AND ROCK	Soil	Wet sieve analysis (Sieve Size 75 Micron to 4.75 mm)	IS 2720 (Part 4)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil Field Test	Dry Density (by Sand Replacement Method)	IS 2720 (Part 28)
2	MECHANICAL- SOIL AND ROCK	Soil Field Test	Dry density (Core Cutter Method)	IS 2720 Part 29
3	MECHANICAL- SOIL AND ROCK	Soil field test	Standard Penetration Test (SPT)	IS 2131
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Rebound Hammer	IS 13311 Part 2 (RA 2018), IS 516 (Part 5/Sec 4)
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Ultrasonic Pulse Velocity	IS 516 Part 5 Section 1