National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GEO ENGINEERING SERVICES, 1542, PASHUPATINATH NAGAR, GODI ROAD, DAHOD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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	CHEMICAL- WATER	Distilled Water	PH Value	IS 3025 (Part-11)
2	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part-32)
3	CHEMICAL- WATER	Drinking Water	PH Value	IS 3025 (Part-11)
4	CHEMICAL- WATER	Drinking Water	Sulphate	IS 3025 (Part-24)
5	CHEMICAL- WATER	Ground Water	Chloride	IS 3025 (Part-32)
6	CHEMICAL- WATER	Ground Water	PH Value	IS 3025 (Part-11)
7	CHEMICAL- WATER	Ground Water	Sulphate	IS 3025 (Part-24)
8	CHEMICAL- WATER	Surface Water	Chloride	IS 3025 (Part-32)
9	CHEMICAL- WATER	Surface Water	PH Value	IS 3025 (Part-11)
10	CHEMICAL- WATER	Surface Water	Sulphate	IS 3025 (Part-24)
11	CHEMICAL- WATER	Water for construction purpose	Chloride	IS 3025 (Part-32)
12	CHEMICAL- WATER	Water for construction purpose	PH Value	IS 3025 (Part-11)
13	CHEMICAL- WATER	Water for construction purpose	Sulphate	IS 3025 (Part-24)
14	MECHANICAL- BUILDINGS MATERIALS	Accelerated Cured Concrete	Compressive Strength	IS:9013
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 : (Part-2)
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Binder Content	IRC SP-11
17	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility Test	IS 1208
18	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Fire Point	IS 1209
19	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209
20	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS 1206 : (Part-3)
21	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Marshall Flow Value	ASTM 6927
22	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Marshall Stability	ASTM 6927
23	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration Test	IS 1203

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24	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point Test	IS:1205
25	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
26	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Viscosity Ratio at 60oC	IS 1206 (Part 2)
27	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Compressive Strength	IS:3495 (Part-1)
28	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimension Test (Height)	IS:1077
29	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimension Test (Length)	IS:1077
30	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimension Test (Width)	IS:1077
31	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Efflorescence	IS:3495 (Part-3)
32	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Water Absorption	IS:3495 (Part-2)
33	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC,PPC,PSC)	Compressive Strength	IS 4031(Part-6)
34	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC,PPC,PSC)	Consistency	IS 4031 (Part-4)
35	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC,PPC,PSC)	Density	IS 4031(Part-11)
36	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC,PPC,PSC)	Final Setting Time	IS 4031(Part-5)
37	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC,PPC,PSC)	Fineness by Blain Air Permeability	IS 4031 (Part-2)
38	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC,PPC,PSC)	Initial Setting Time	IS 4031(Part-5)
39	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC,PPC,PSC)	Soundness (By Le Chatelier Method)	IS 4031 (Part-3)
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value	IS:2386 (Part-4)
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS:2386 (Part-4)
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS:2386 (Part-1)

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43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS:2386 (Part-1)
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS:2386 (Part-4)
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Loose Density	IS:2386 (Part-3)
46	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Rodded Density	IS:2386 (Part-3)
47	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis, % (G.I. Sieve 45 cm Dia) :- 90 mm, 80 mm, 75 mm, 63 mm, 53 mm, 50 mm, 45 mm, 40 mm, 37.5 mm, 31.5 mm, 26.5 mm, 25.0 mm, 22.4 mm, 20.0 mm, 19.0 mm, 16.0 mm, 12.5 mm, 11.2 mm, 10.0 mm, 9.5 mm, 8.0 mm, 6.3 mm, 5.6 mm, 4.75 mm	IS:2386 (Part-1)
48	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness (MgSo4)	IS:2386 (Part-5)
49	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness (Na2So4)	IS:2386 (Part-5)
50	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS:2386 (Part-3)
51	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS:2386 (Part-3)
52	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS:516(Part-4)
53	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Loose Density	IS:2386 (Part-3)
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Rodded Density	IS:2386 (Part-3)
55	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis, % (Brass Sieve 20 cm Dia) :- 10.0 mm, 4.75 mm, 4.00mm, 2.36 mm, 2.0 mm, 1.70 mm, 1.18 mm, 1.00 mm, 850 micron, 600 micron, 500 micron, 425 micron, 300 micron, 212 micron, 150 micron, 90 micron, 75 micron.	IS:2386 (Part-1)
56	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness (Mgso4)	IS:2386 (Part-5)

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57	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness (Na2So4)	IS:2386 (Part-5)
58	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS:2386 (Part-3)
59	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS:2386 (Part-3)
60	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Compressive Strength	IS:3495 (Part-1)
61	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimension Test (Height)	IS:13757
62	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimension Test (Length)	IS:13757
63	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimension Test (Width)	IS:13757
64	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Efflorescence	IS:3495 (Part-3)
65	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump Test	IS:1199:1959
66	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS:516
67	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
68	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
69	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Bend (Mandrel Dia:-16 mm, 20 mm, 24 mm, 30 mm, 32 mm 36 mm, 40 mm, 48 mm, 50 mm, 60 mm, 64 mm, 75 mm, 80 mm, 100 mm, 125 mm, 150 mm)	IS:1599
70	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Elongation	IS:1608 (Part-1)
71	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Nominal Weight	IS:1608 (Part-1)

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72	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Rebend (Mandrel Dia:- 32 mm, 40 mm, 48 mm, 50 mm, 56 mm, 60 mm, 70 mm, 72 mm, 84 mm, 96 mm, 112 mm, 120 mm, 128 mm, 140 mm, 150 mm, 160 mm, 175 mm, 192 mm, 200 mm)	IS:1786
73	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Ultimate Strength	IS:1608 (Part-1)
74	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Yield Strength	IS:1608 (Part-1)
75	MECHANICAL- SOIL AND ROCK	Rock	Density	IS 13030
76	MECHANICAL- SOIL AND ROCK	Rock	Porosity	IS 13030
77	MECHANICAL- SOIL AND ROCK	Rock	Specific Gravity	IS 1124
78	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143
79	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
80	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limit Plastic Limit	IS: 2720 (Part-5)
81	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limit Shrinkage Limit	IS: 2720 (Part 6)
82	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limit Liquid Limit	IS: 2720 (Part-5)
83	MECHANICAL- SOIL AND ROCK	Soil	CBR- Soaked	IS:2720 (Part 16)
84	MECHANICAL- SOIL AND ROCK	Soil	CBR-Unsoaked	IS:2720 (Part 16)
85	MECHANICAL- SOIL AND ROCK	Soil	Consolidation (Pre-consolidation Pressure)	IS: 2720 (Part 15)
86	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Compression Index)	IS: 2720 (Part 15)
87	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Unconsolidated Undrained) Cohesion	IS:2720 (Part 13)

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88	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Unconsolidated Undrained)Angle of internal friction	IS:2720 (Part 13)
89	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part- 40)
90	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (4.75 mm, 2.0 mm, 425 micron, 75 micron)	IS 2720 (Part-4)
91	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction Test (Maximum Dry Density)	IS:2720 (Part-8)
92	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction Test (Optimum Moisture Content)	IS:2720 (Part-8)
93	MECHANICAL- SOIL AND ROCK	Soil	Hydrometer Analysis	IS 2720 (Part -4)
94	MECHANICAL- SOIL AND ROCK	Soil	Laboratory Permeability by Falling Head Method	IS:2720 (Part 17)
95	MECHANICAL- SOIL AND ROCK	Soil	Laboratory Permeability Test By Constant Head Method	IS:2720 (Part 17)
96	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction Test (Maximum Dry Density)	IS:2720 (Part-7)
97	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction Test (Optimum Moisture Content)	IS:2720 (Part-7)
98	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part-3) (Sec:1)
99	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Test (Unconsolidated Undrained) Angle of Internal Friction	IS 2720 (Part -11)
100	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Test (Unconsolidated Undrained) Cohession	IS 2720 (Part -11)
101	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS:2720 (Part 10)
102	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 (Part -2)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density test Core Cutter Method	IS:2720 (Part 29)
2	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density test Sand Replacement Method	IS:2720 (Part 28)
3	MECHANICAL- SOIL AND ROCK	Soil	Field Moisture Content test by Core Cutter Method	IS:2720 (Part 29)
4	MECHANICAL- SOIL AND ROCK	Soil	Field Moisture Content test by Sand Replacement Method	IS:2720 (Part 28)