National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SOILMATE ENGINEERING CONSULTANCY, 19, 20 JHULELAL SOCIETY, BHUJ, KACHCHH, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9142 **Page No** 1 of 4

Validity 08/12/2022 to 07/12/2024 **Last Amended on** 23/03/2023

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	Aggregates (Coarse)	Crushing Value	IS 2386 (Part-4)
2	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Elongation Index	IS 2386 (Part-1)
3	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Flakiness Index	IS 2386 (Part-1)
4	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Impact Value	IS 2386 (Part-4)
5	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Los Angeles abrasion value	IS 2386 (Part-4)
6	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Sieve analysis (2.36mm, 4.75mm, 10mm, 12.5mm, 16mm, 20mm, 40mm, 63mm and 80mm)	IS 2386 (Part-1)
7	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Specific Gravity	IS 2386 (Part-3)
8	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Water absorption	IS 2386 (Part-3)
9	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	Sieve analysis (150 micron, 300 micron, 600 micron, 1.18 mm, 2.36 mm, 4.75 mm and 10 mm)	IS 2386 (Part-1)
10	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	SpecificGravity	IS 2386 (Part-3)
11	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	Water absorption	IS 2386 (Part-3)
12	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Aerated Block	Block Density	IS 6441 (Part 1)
13	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Aerated Block	Compressive Strength	IS 6441 (Part 5)
14	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Aerated Block	Dimensions - Height	IS 2185 (Part 3)
15	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Aerated Block	Dimensions - Length	IS 2185 (Part 3)
16	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Aerated Block	Dimensions-Breadth	IS 2185 (Part 3)
17	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity at 60 °C	IS 1206 (Part-2)

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18	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Bitumen Extraction test	ASTMD-2172-17
19	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
20	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity at 135°C	IS 1206 (Part-3)
21	MECHANICAL- BUILDINGS MATERIALS	Bitumen	loss on heating	IS 1212
22	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
23	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
24	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
25	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/Core	Marshal flow	ASTM D6927- 15
26	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/Core	Marshal Stability	ASTM D6927- 15
27	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks & Fly Ash Bricks	Efflorescence	IS 3495 Part-3
28	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks & FlyAsh Brick	Compressive Strength	IS 3495 Part-1
29	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks & FlyAsh Bricks	Dimension Height	IS 1077
30	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks & FlyAsh Bricks	Dimension Width	IS 1077
31	MECHANICAL- BUILDINGS MATERIALS	Burnt ClayBricks & FlyAsh Bricks	Water absorption	IS 3495 (Part 2)
32	MECHANICAL- BUILDINGS MATERIALS	Burnt ClayBricks &FlyAsh Bricks	Dimension Length	IS 1077
33	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength	IS 4031(Part-6)
34	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Consistency	IS 4031(Part-4)
35	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Final Setting Time	IS 4031 (Part-5)
36	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness by Blaine air permeability	IS 4031 (Part 2)

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37	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness by dry sieving	IS 4031(Part-1)
38	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Initial Setting Time	IS 4031 (Part-5)
39	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness with Le Chattalier method	IS 4031 (Part-3)
40	MECHANICAL- BUILDINGS MATERIALS	concrete	Slump test	IS 1199 (Part 2)
41	MECHANICAL- BUILDINGS MATERIALS	concrete Beam	Flexural strength	IS 516 (Part-1/Sec-1)
42	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516 (Part-1/Sec-1)
43	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658 (Annex. D)
44	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658 (Annex. C)
45	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part-16)
46	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Properties (av)	IS 2720 (Part-15)
47	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Properties (Cv)	IS 2720 (Part-15)
48	MECHANICAL- SOIL AND ROCK	Soil	Direct shear stress (UU) Angle of Internal friction	IS 2720 (Part-13)
49	MECHANICAL- SOIL AND ROCK	Soil	Directshearstress(UU) Cohesion	IS 2720 Part-13
50	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 Part-40
51	MECHANICAL- SOIL AND ROCK	Soil	Grain size analysis	IS 2720 Part-4
52	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction MDD	IS 2720 Part-8
53	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction OMC	IS 2720 Part-8
54	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction MDD	IS 2720 Part-7
55	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction OMC	IS 2720 Part-7

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56	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 Part-5
57	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 Part-5
58	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS: 2720 (Part-3 Sec.-I)
59	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part-41)
60	MECHANICAL- SOIL AND ROCK	Soil	Tri-AxialShear (F)	IS 2720 (Part-11)
61	MECHANICAL- SOIL AND ROCK	Soil	Tri-AxialShear(C)	IS 2720 (Part-11)