National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CGPIT TARSADIA MATERIAL TESTING LABORATORY, UKA TARSADIA UNIVERSITY, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8908 **Page No** 1 of 4

Validity 21/07/2022 to 20/07/2024 **Last Amended on** -

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	Bitumen	Absolute Viscosity	IS: 1206(Pt-2)
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematics Viscosity	IS: 1206(Pt-3)
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration (Div. - 1/10 mm)	IS 1203
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Binder Content	ASTM D2172
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Asphalt	Ductility	IS 1208
9	MECHANICAL- BUILDINGS MATERIALS	Cement OPC/PPC	Final Setting time	IS: 4031(P-5)
10	MECHANICAL- BUILDINGS MATERIALS	Cement OPC/PPC	Initial Setting Time	IS: 4031(P-5)
11	MECHANICAL- BUILDINGS MATERIALS	Cement OPC/PPC	Soundness By Le-Chatelier	IS 4031 (Part 3)
12	MECHANICAL- BUILDINGS MATERIALS	Cement OPC/PPC	Standard Consistency	IS 4031 (Part 4)
13	MECHANICAL- BUILDINGS MATERIALS	Cement-OPC/PPC	Compressive Strength	IS: 4031(P-6)
14	MECHANICAL- BUILDINGS MATERIALS	Cement-OPC/PPC	Fineness By Blaine	IS:4031(P-2)
15	MECHANICAL- BUILDINGS MATERIALS	Clay Burnt Bricks/Fly Ash	Compressive Strength	IS: 3495(P1)
16	MECHANICAL- BUILDINGS MATERIALS	Clay Burnt Bricks/Fly Ash	Dimension(height, length, width)	IS: 1077 ,IS:12894
17	MECHANICAL- BUILDINGS MATERIALS	Clay Burnt Bricks/Fly Ash	Efflorescence	IS: 3495(P3)
18	MECHANICAL- BUILDINGS MATERIALS	Clay Burnt Bricks/Fly Ash	Water Absorption	IS: 3495(P2)

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Certificate Number TC-8908 **Page No** 2 of 4

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19	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386(Part 3)
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386(Part 4)
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386(Part 1)
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386(Part 1)
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386(Part 4)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS 2386(Part 4) clause 5.3
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis(100mm,80mm,75mm, 63mm,53mm,50mm,45mm,40 mm,37.5mm,31.5mm,26.5mm, 22.4mm,20mm,19mm,16mm,1 3.2mm,12.5mm,11.2mm,10m m,9.5mm,6.3mm,5mm,4.75m m,2.36mm,1.7mm,1.18mm,1m m,600µm,500µm,425µm,300µ m,150µm,90µm,75µm	IS 2386(Part 1)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386(Part 3)
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386(Part 3)
28	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube/Cylinder	Compressive Strength	IS: 516
29	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386(Part 3)
30	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Finer than 75 microns	IS 2386(Part 1)
31	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis(10mm, 4.75mm,2.36mm,1.7mm,1.18 mm,1mm,600µm, 500µm,425µm,300µm,150µm, 90µm,75µm	IS 2386(Part 1)
32	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386(Part 3)
33	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386(Part 3)

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Certificate Number TC-8908 **Page No** 3 of 4

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34	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete Cube/Core/Cylinder	Slump	IS:1199
35	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS: 15658
36	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS: 15658
37	MECHANICAL- BUILDINGS MATERIALS	Reinforcement & Structural Steel	Mass per meter	IS 1786
38	MECHANICAL- BUILDINGS MATERIALS	Steel	Elongation	IS:1608
39	MECHANICAL- BUILDINGS MATERIALS	Steel	Ultimate Tensile Strength	IS:1608
40	MECHANICAL- BUILDINGS MATERIALS	Steel	Yield Stress	IS:1608
41	MECHANICAL- SOIL AND ROCK	Building Stone/Rubble	Compressive Strength	IS:1121(P-1)
42	MECHANICAL- SOIL AND ROCK	Building Stone/Rubble	Specific Gravity(Apparent)	IS:1124
43	MECHANICAL- SOIL AND ROCK	Building Stone/Rubble	Water Absorption	IS:1124
44	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (C.B.R.)	IS 2720 (Part 16)
45	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Angle of Friction)	IS:2720(P-13)
46	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion)	IS:2720(P-13)
47	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS-2720 (Part -40)
48	MECHANICAL- SOIL AND ROCK	Soil	Grain size Analysis (Wet analysis)	IS 2720 (Part-4)
49	MECHANICAL- SOIL AND ROCK	SOIL	Heavy Compaction (OMC)	IS 2720 (Part 8)
50	MECHANICAL- SOIL AND ROCK	SOIL	Heavy Compaction(MDD)	IS 2720 PART 8
51	MECHANICAL- SOIL AND ROCK	SOIL	Light Compaction (OMC)	IS 2720 (Part 7)
52	MECHANICAL- SOIL AND ROCK	SOIL	Light Compaction (MDD)	IS 2720 (Part 7)

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53	MECHANICAL- SOIL AND ROCK	soil	Liquid Limit	IS 2720 Part 5
54	MECHANICAL- SOIL AND ROCK	soil	Plastic limit	IS 27020 PART 5
55	MECHANICAL- SOIL AND ROCK	Soil	Specific gravity-Fine Grain Soil	IS 2720 (Part 3/Sec.-2)-
56	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression Strength	IS 2720 (Part 10)
57	MECHANICAL- SOIL AND ROCK	Soil	Water content	IS 2720 (Part 2)