National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BHAVYA GEOSTRUCT CONSULTANCY, NO42/2 P1, THARAD ROAD, DEESA, BANAS KANTHA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9087 **Page No** 1 of 8

Validity 07/12/2022 to 06/12/2024 **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	AAC Block	Compressive Strength	IS 6441 (Part 5)
2	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension Height	IS 2185 (Part 3)
3	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension Length	IS 2185 (Part 3)
4	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension Width	IS 2185 (Part 3)
5	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Moisture Content	IS 6441 (Part 1)
6	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Unit Weight	IS 6441 (Part 1)
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (Part 2)
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematics Viscosity	IS 1206 (Part 3)
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on Heating	IS 1212
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Solubility in trichloroethylene	IS 1216
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Stripping Value	IS 6241
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Viscosity Ratio	IS 1206 (Part 2)
17	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Miscibility with Water	IS 8887
18	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue by Evaporation	IS 8887

SCOPE OF ACCREDITATION

Laboratory Name : BHAVYA GEOSTRUCT CONSULTANCY, NO42/2 P1, THARAD ROAD, DEESA, BANAS KANTHA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9087 **Page No** 2 of 8

Validity 07/12/2022 to 06/12/2024 **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
19	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 micron Sieve	IS 8887
20	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Storage Stability after 24 h	IS 8887
21	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/Core	Binder Content	ASTM D 2172
22	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/Core	Density	ASTM D2726
23	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/Core	Marshal Stability	ASTM D 6927
24	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/Core	Marshall Flow	ASTM D 6927
25	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/Core	Theoretical Maximum Specific Gravity	ASTM D 2041
26	MECHANICAL- BUILDINGS MATERIALS	Bricks(Burnt Clay/Fuel Ash/Flyash)	Compressive Strength	IS 3495 (Part 1)
27	MECHANICAL- BUILDINGS MATERIALS	Bricks(Burnt Clay/Fuel Ash/Flyash)	Dimension Height	IS 1077
28	MECHANICAL- BUILDINGS MATERIALS	Bricks(Burnt Clay/Fuel Ash/Flyash)	Dimension Length	IS 1077
29	MECHANICAL- BUILDINGS MATERIALS	Bricks(Burnt Clay/Fuel Ash/Flyash)	Dimension Width	IS 1077
30	MECHANICAL- BUILDINGS MATERIALS	Bricks(Burnt Clay/Fuel Ash/Flyash)	Efflorescence	IS 3495 (Part 3)
31	MECHANICAL- BUILDINGS MATERIALS	Bricks(Burnt Clay/Fuel Ash/Flyash)	Water Absorption	IS 3495 (Part 2)
32	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part 6)
33	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Consistency	IS 4031 (Part 4)
34	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Density	IS 4031 (Part 11)
35	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Final Setting Time	IS 4031 (Part 5)
36	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness by Blaine Permeability Method	IS 4031 (Part 2)
37	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Initial Setting Time	IS 4031 (Part 5)

SCOPE OF ACCREDITATION

Laboratory Name : BHAVYA GEOSTRUCT CONSULTANCY, NO42/2 P1, THARAD ROAD, DEESA, BANAS KANTHA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9087 **Page No** 3 of 8

Validity 07/12/2022 to 06/12/2024 **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
38	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness by Le- Chatilier method	IS 4031 (Part 3)
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing value	IS 2386 (Part 4)
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10 % Fines value	IS 2386 (Part 4)
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Compacted)	IS 2386 (Part 3)
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (loose)	IS 2386 (Part 3)
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386 (Part 4)
46	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Loss Angles Abrasion Value	IS 2386 (Part 4)
47	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Materials Finer than 75 microns	IS 2386 (Part 1)
48	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve size:125mm to 75 microns)	IS 2386 (Part 1)
49	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by MgSO4	IS 2386 (Part 5)
50	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na2SO4	IS 2386 (Part 5)
51	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
52	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
53	MECHANICAL- BUILDINGS MATERIALS	Concrete	Slump	IS 1199 (Part 2)
54	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516(Part 4)
55	MECHANICAL- BUILDINGS MATERIALS	Concrete Cubes	Compressive Strength	IS 516 :(Part 1) Sec 1
56	MECHANICAL- BUILDINGS MATERIALS	Concrete Paverblock	Compressive Strength	IS 15658

SCOPE OF ACCREDITATION

Laboratory Name : BHAVYA GEOSTRUCT CONSULTANCY, NO42/2 P1, THARAD ROAD, DEESA, BANAS KANTHA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9087 **Page No** 4 of 8

Validity 07/12/2022 to 06/12/2024 **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
57	MECHANICAL- BUILDINGS MATERIALS	Concrete Paverblock	Dimension (Thickness)	IS 15658
58	MECHANICAL- BUILDINGS MATERIALS	Concrete Paverblock	Plan Area	IS 15658
59	MECHANICAL- BUILDINGS MATERIALS	ConcretePaver Block	Dimension (Width)	IS 15658
60	MECHANICAL- BUILDINGS MATERIALS	ConcretePaver Block	Dimensions (Length)	IS 15658
61	MECHANICAL- BUILDINGS MATERIALS	ConcretePaver Block	Water Absorption	IS 15658
62	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Compacted)	IS 2386 (Part 3)
63	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Loose)	IS 2386 (Part 3)
64	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Materials Finer than 75 micron	IS 2386 (Part 1)
65	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Sieve size:125mm to 75 microns)	IS 2386 (Part 1)
66	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by MgSO4	IS 2386 (Part 5)
67	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
68	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
69	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Soundness by Na2SO4	IS 2386 (Part 5)
70	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Tensile Strength	IS 1608 (Part 1)
71	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Bend Test	IS 1599
72	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Cross Sectional Area	IS 1786
73	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Elongation	IS 1608 (Part 1)
74	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Mass per meter	IS 1786
75	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Rebend Test	IS 1786

SCOPE OF ACCREDITATION

Laboratory Name : BHAVYA GEOSTRUCT CONSULTANCY, NO42/2 P1, THARAD ROAD, DEESA, BANAS KANTHA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9087 **Page No** 5 of 8

Validity 07/12/2022 to 06/12/2024 **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
76	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Yield Stress	IS 1608 (Part 1)
77	MECHANICAL- BUILDINGS MATERIALS	Pulverised Fuel Ash (Fly Ash/ Mond Ash/ bottom Ash)	Specific gravity	IS 1727
78	MECHANICAL- BUILDINGS MATERIALS	Tiles	Density	IS 13630 (Part 2)
79	MECHANICAL- BUILDINGS MATERIALS	Tiles	Dimension (Length)	IS 13630 (Part 1)
80	MECHANICAL- BUILDINGS MATERIALS	Tiles	Dimension (Thickness)	IS 13630 (Part 1)
81	MECHANICAL- BUILDINGS MATERIALS	Tiles	Dimension (Width)	IS 13630 (Part 1)
82	MECHANICAL- BUILDINGS MATERIALS	Tiles	Water Absorption	IS 13630 (Part 2)
83	MECHANICAL- BUILDINGS MATERIALS	Timber	Density	IS 1708 (Part 2)
84	MECHANICAL- BUILDINGS MATERIALS	Timber	Moisture Content	IS 1708 (Part 1)
85	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM as per MoRTH Specifications)	Heavy Compaction - Optimum Moisture Content	IS 2720 (Part 8)
86	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM as per MoRTH Specifications)	Plastic Limit	IS 2720 (Part 5)
87	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Compressive Strength	IS 1121 (Part 1)
88	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Porosity	IS 1124
89	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Specific Gravity	IS 1124
90	MECHANICAL- SOIL AND ROCK	Natural Building Stone	True Specific Gravity	IS 1122
91	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Water Absorption	IS 1124
92	MECHANICAL- SOIL AND ROCK	Rock	Density using Saturation and Buoyancy Techniques	IS 13030
93	MECHANICAL- SOIL AND ROCK	Rock	Porosity using Saturation and Buoyancy Techniques	IS 13030
94	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143

SCOPE OF ACCREDITATION

Laboratory Name : BHAVYA GEOSTRUCT CONSULTANCY, NO42/2 P1, THARAD ROAD, DEESA, BANAS KANTHA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9087 **Page No** 6 of 8

Validity 07/12/2022 to 06/12/2024 **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
95	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
96	MECHANICAL- SOIL AND ROCK	Soil	Consolidation - Coefficient Compression (Cc)	IS 2720 (Part 15)
97	MECHANICAL- SOIL AND ROCK	Soil	Consolidation - Preconsolidation Pressure (Pc)	IS 2720 (Part 15)
98	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Angle of Shearing Resistance	IS 2720 (Part 13)
99	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Cohesion	IS 2720 (Part 13)
100	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
101	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis by Hydrometer (0.002 to 0.075 mm)	IS 2720 (Part 4)
102	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis by Wet Sieving (0.075 to 4.75 mm)	IS 2720 (Part 4)
103	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	S 2720 (Part 6)
104	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/Sec 1)
105	MECHANICAL- SOIL AND ROCK	Soil	Swell Pressure	IS 2720 (Part 41)
106	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression - Angle of Shearing Resistance	IS 2720 (Part 11)
107	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression - Cohesion	IS 2720 (Part 11)
108	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Oven Drying Method	IS 2720 (Part 2)
109	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM as per MoRTH Specifications)	Liquid Limit	IS 2720 (Part 5)
110	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM as per MoRTH Specifications)	California Bearing Ratio	IS 2720 (Part 16)
111	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM as per MoRTH Specifications)	Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8)
112	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM as per MoRTH Specifications)	Light Compaction - Maximum Dry Density	IS 2720 (Part 7)

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BHAVYA GEOSTRUCT CONSULTANCY, NO42/2 P1, THARAD ROAD, DEESA, BANAS KANTHA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9087 **Page No** 7 of 8

Validity 07/12/2022 to 06/12/2024 **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
113	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM as per MoRTH Specifications)	Light Compaction - Optimum Moisture Content	IS 2720 (Part 7)

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BHAVYA GEOSTRUCT CONSULTANCY, NO42/2 P1, THARAD ROAD, DEESA, BANAS KANTHA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9087 **Page No** 8 of 8

Validity 07/12/2022 to 06/12/2024 **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
Site Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Pavement	Benkelmen Beam Deflection	IRC 81
2	MECHANICAL- SOIL AND ROCK	Field Test For Soil	Standard Penetration Test	IS 2131
3	MECHANICAL- SOIL AND ROCK	Field Test Soil	Dry Density by Core Cutter Method	IS 2720 (Part 29)
4	MECHANICAL- SOIL AND ROCK	Field Test Soil	Dry Density by Sand Replacement Method	IS 2720 (Part 28)
5	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Rapid Moisture Meter (Calcium Carbide)	IS 2720 (Part 2)
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Rebound Hammer	IS 516 (Part 5) :Sec 4
7	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Ultrasonic Pulse Velocity	IS 516 (Part 5/Sec1)