National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CIVIL TECH, PLOT NO.4 (1372), KANHERE WADI, SHALIMAR, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5364 **Page No** 1 of 7

Validity 14/04/2021 to 13/04/2023 **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	Solid Block	Water Absorption Test	IS 2185 (Part 1)
2	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Compressive Strength	IS: 6441 (Part 5)
3	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Density	IS: 6441 (Part 1)
4	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension	IS: 2185 (Part-3)
5	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Moisture Content	IS: 6441 (Part 1)
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility at 25°C	IS:1201 to IS 1220
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration at 25	IS:1201 to IS 1220
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS:1201 to IS:1220
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS:1201 to IS:1220
10	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part 3)
11	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS:4031 (Part 6)
12	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistancy	IS:4031 (Part 4)
13	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS:4031 (Part 5)
14	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Blaine's Air Permeability	IS 4031 (Part 2)
15	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by dry sieving	IS: 4031 (Part 1)
16	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5)
17	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le- Chatilier method	IS:4031 (Part 3)
18	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Resistance to Wear	IS:1237 Annex G

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5364 **Page No** 2 of 7

Validity 14/04/2021 to 13/04/2023 **Last Amended on** -

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19	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Water Absorption	IS:1237 Annex E
20	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Wet Transverse Strength	IS:1237 Annex F
21	MECHANICAL- BUILDINGS MATERIALS	Clay / Fly Ash Bricks	Water Absorption	IS:3495 (Part 2)
22	MECHANICAL- BUILDINGS MATERIALS	Clay / Flyash Bricks	Dimensions	IS 12894
23	MECHANICAL- BUILDINGS MATERIALS	Clay/Fly Ash Bricks	Compressive Strength	IS:3495 (Part 1)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Alkali Aggregate Reactivity - Reduction in Alkalinity (RC)	IS 2386 (Part 7)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Alkali Aggregate reactivity Silica Released (SC)	IS 2386 (Part 7)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS:2386 (Part 3)
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Clay Lumps	IS 2386 (Part 2) Clause 2.0
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve analysis	IS 2386 (Part 1) Clause 2.0
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Sodium Sulphate (Na2So4)	IS 2386 (Part 5)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Stripping Value	IS: 6241
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
37	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5364 **Page No** 3 of 7

Validity 14/04/2021 to 13/04/2023 **Last Amended on** -

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38	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Clay Lumps	IS 2386 (Part 2)
39	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve analysis	IS 2386 (Part 1) Clause 2.0
40	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
41	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
42	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Compressive Strength	IS:1727
43	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Fineness by Blaine's Air Permeability	IS: 1727
44	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Specific gravity	IS:1727
45	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete - Cubes / Cores	Compressive Strength	IS:516
46	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete. - Beam	Flexural Strength	IS 516
47	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Abrasion Resistance	IS:15658
48	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Breaking Load	IS:15658
49	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS:15658
50	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS:15658
51	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Bar/Structural Steel	0.2 % Proof Stress	IS:1608
52	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Bar/Structural Steel	Bend Test	IS:1599
53	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Bar/Structural Steel	Elongation	IS:1608
54	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Bar/Structural Steel	Mass per meter	IS:1786
55	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Bar/Structural Steel	Rebend Test	IS:1786
56	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Bar/Structural Steel	Tensile Strength	IS:1608

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5364	**Page No**	4 of 7
Validity	14/04/2021 to 13/04/2023	**Last Amended on**	-

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57	MECHANICAL- BUILDINGS MATERIALS	Solid Block	Block Density	IS 2185 (Part 1)
58	MECHANICAL- BUILDINGS MATERIALS	Solid Blocks (Concrete)	Compressive Strength	IS 2185 (Part 1)
59	MECHANICAL- BUILDINGS MATERIALS	Vitrified Tiles	Abrasion Resistance	IS 13630
60	MECHANICAL- BUILDINGS MATERIALS	Vitrified Tiles	Modulus of Rupture	IS 13630 P6
61	MECHANICAL- BUILDINGS MATERIALS	Vitrified Tiles	Water Absorption	IS 13630
62	MECHANICAL- BUILDINGS MATERIALS	Vitrified Tiles	Wet Transverse Strength	IS 4457
63	MECHANICAL- SOIL AND ROCK	Rock	Density Test	IS 13030
64	MECHANICAL- SOIL AND ROCK	Rock	Point Load Index Strength	IS 8764
65	MECHANICAL- SOIL AND ROCK	Rock	Porosity	13030
66	MECHANICAL- SOIL AND ROCK	Rock	Specific Gravity	IS 1122
67	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143
68	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
69	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
70	MECHANICAL- SOIL AND ROCK	Soil	Compaction - MDD	IS: 2720 (Part 7 & 8)
71	MECHANICAL- SOIL AND ROCK	Soil	Compaction - OMC	IS: 2720 (Part 7 & 8)
72	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Angle of Shearing Resistance & Cohesion	IS: 2720 (Part 13)
73	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
74	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis - (Dry Analysis) - 4.75 to 80 mm	IS: 2720 (Part 4)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5364 **Page No** 5 of 7

Validity 14/04/2021 to 13/04/2023 **Last Amended on** -

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75	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis - (Wet Analysis) - 0.075 to 4.75 mm	IS: 2720 (Part 4)
76	MECHANICAL- SOIL AND ROCK	Soil	Hydrometer Analysis	IS: 2720 (Part 4) - Clause 5.2
77	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit by Casagrande Method	IS 2720 (Part 5)
78	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
79	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 Part 6
80	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/Sec 1)
81	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Oven Drying Method	IS: 2720 (Part 2)
82	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Rebound Hammer	IS 516 Part 5 Section 1
83	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Ultrasonic Pulse Velocity	IS 516 Part 5 Section 1

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5364 **Page No** 6 of 7

Validity 14/04/2021 to 13/04/2023 **Last Amended on** -

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Site Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Roads and Highway Flexible Pavement	Deflection Measurement by Falling weight Deflectometer	IRC 115
2	MECHANICAL- BUILDINGS MATERIALS	Roads and Highway Pavement	Deflection Measurement by Benkelman Beam Deflectometer	IRC 81
3	MECHANICAL- BUILDINGS MATERIALS	Roads and Highway Pavement	Measurement of Pavement Surface Roughness by Car Axle Mounted Bump Integrator	IRC SP:16
4	MECHANICAL- BUILDINGS MATERIALS	Roads and Highway Pavement	Measurement of Surface Roughness by 5th Wheel Bump Integrator	IRC SP-16
5	MECHANICAL- BUILDINGS MATERIALS	Roads and Highway Pavement	MIT Dowel Bar Scanner	IRC 15
6	MECHANICAL- BUILDINGS MATERIALS	Roads and Highway Pavement	Skid Resistance Test	IRC 35
7	MECHANICAL- BUILDINGS MATERIALS	Roads and Highway Pavements	Measurement of GPS Coordinates, Pavement type, Pavement width, terrain, lane use, shoulder type & width, drain type & width, median type & width, way side amenities, crash barrier, signages by Network Survey Vehicle	MoRTH GR No. RW/NH - 33044/32/2019 S & R (P&B) Dated 13/11/2019, Report Output Format Annexure VII of GR No. RO/MUM/Genl-Corr/2019-20/423
8	MECHANICAL- BUILDINGS MATERIALS	Roads and Highway Pavements	Measurement of International Roughness Index and Roughness Index by using class I Laser Profilometer fitted on NSV	IRC SP 16
9	MECHANICAL- BUILDINGS MATERIALS	Roads and Highway Pavements	Measurement of Road Chainages using DMI by Network Survey Vehicle	MoRTH GR No. RW/NH - 33044/32/2019 S & R (P&B) Dated 13/11/2019, Report Output Format Annexure VII of GR No. RO/MUM/Genl-Corr/2019-20/423
10	MECHANICAL- BUILDINGS MATERIALS	Roads and Highway Pavements	Measurement of Rutting, Distresses, Cracking, Potholes, Bleeding, surface failure etc by Network Survey Vehicle.	MoRTH GR No. RW/NH - 33044/32/2019 S & R (P&B) Dated 13/11/2019, Report Output Format Annexure VII of GR No. RO/MUM/Genl-Corr/2019-20/423

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5364 **Page No** 7 of 7

Validity 14/04/2021 to 13/04/2023 **Last Amended on** -

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11	MECHANICAL- BUILDINGS MATERIALS	Roads and Highway Rigid Pavement	Deflection Measurement by Falling weight Deflectometer	IRC 117
12	MECHANICAL- SOIL AND ROCK	Soil	Dry Density by Sand Replacement Method	IS 2720 (Part 28)
13	MECHANICAL- SOIL AND ROCK	Soil	Dry Density density by Core Cutter Method	IS 2720 (Part 29)
14	MECHANICAL- SOIL AND ROCK	Soil	Field California Bearing Ratio	IS: 2720 (Part 31)
15	MECHANICAL- SOIL AND ROCK	Soil	Modulus of subgrade reaction (K-value)	IS 9214
16	MECHANICAL- SOIL AND ROCK	Soil	Plate Load Test	IS 1888