National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SHIVA TESTING AND RESEARCH LABORATORY PRIVATE LIMITED, KHASRA NO. 849/1, BADDI SITALPURA, BADDI, SOLAN, HIMACHAL PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11529 **Page No** 1 of 7

Validity 04/04/2023 to 03/04/2025 **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 Emulsion	Penetration	IS 1203
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Ductility	ASTM D113
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Solubility in Trichloroethylene	ASTM D2042
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Coagulation of Emulsion at Low Temperature	IS 8887 (Annex C)
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Coating Ability & Water Resistance	IS 8887 (Annex F)
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Miscibility With Water	IS 8887 (Annex H)
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue By Evaporation	IS 8887 (Annex J)
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 micron Sieve	IS 8887 (Annex B)
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Stability to Mixing With Cement	IS 8887 (Annex G)
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Storage Stability after 24 hours	IS 8887 (Annex D)
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity by Sayblot Furol Viscometer	IS 3117 (Annex A)
12	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen DBM/ BC/ BM/ SDAC)	Indirect Tensile Strength	ASTM D6931
13	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen DBM/ BC/ BM/ SDAC)	Resilient Modulus	ASTM D7369
14	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen DBM/ BC/ BM/ SDAC)	Binder Content	ASTM D2172 (Method A)
15	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen PMB/ CRMB/ NRMB/ TAR)	Absolute Viscosity	IS 1206 (Part 2)
16	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen PMB/ CRMB/ NRMB/ TAR)	Fire Point	IS 1209
17	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen PMB/ CRMB/ NRMB/ TAR)	Flash Point	IS 1209
18	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen PMB/ CRMB/ NRMB/ TAR)	Marshal Stability	ASTM D6927

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11529 **Page No** 2 of 7

Validity 04/04/2023 to 03/04/2025 **Last Amended on** -

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19	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen PMB/ CRMB/ NRMB/ TAR)	Moisture Susceptibility Test/ Tensile Strength Ratio	AASHTO T 283
20	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen PMB/ CRMB/ NRMB/ TAR)	Penetration	IS 1203
21	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen PMB/ CRMB/ NRMB/ TAR)	Retained Tensile Strength	AASHTO T 283
22	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen PMB/ CRMB/ NRMB/ TAR)	Softening Point	IS 1205
23	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen PMB/ CRMB/ NRMB/ TAR)	Specific Gravity	IS 1202
24	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen PMB/ CRMB/ NRMB/ TAR)	Stripping Value of Aggregate	IS 6241
25	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen PMB/ CRMB/ NRMB/ TAR)	Theoretical Maximum Specific Gravity (GMM)	ASTM D2041
26	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen PMB/ CRMB/ NRMB/ TAR)	Water Content	IS 1211
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Rodded)	IS 2386 (Part 3)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Clay Lumps	IS 2386 (Part 2)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Organic Impurities	IS 2386 (Part 2)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Loose)	IS 2386 (Part 3)
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness Test (by Sodium Sulphate)	IS 2386 (Part 5)
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11529 **Page No** 3 of 7

Validity 04/04/2023 to 03/04/2025 **Last Amended on** -

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38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Light Weight Pieces (Coal and Lignite)	IS 2386 (Part 2)
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Particle Finer Than 75 Microns	IS 2386 (Part 2)
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (80mm to 2.36mm)	IS 2386 (Part 1)
41	MECHANICAL- BUILDINGS MATERIALS	Common Building Bricks, Heavy Duty Burnt Clay Building Bricks, Burnt Clay Fly Ash Building Bricks	Compressive Strength	IS 3495 (Part 1)
42	MECHANICAL- BUILDINGS MATERIALS	Common Building Bricks, Heavy Duty Burnt Clay Building Bricks, Burnt Clay Fly Ash Building Bricks	Efflorescence	IS 3495 (Part 3)
43	MECHANICAL- BUILDINGS MATERIALS	Common Building Bricks, Heavy Duty Burnt Clay Building Bricks, Burnt Clay Fly Ash Building Bricks	Water Absorption	IS 3495 (Part 2)
44	MECHANICAL- BUILDINGS MATERIALS	Common Building Bricks, Heavy Duty Burnt Clay Building Bricks, Burnt Clay Fly Ash Building Bricks	Bulk Density	IS 2180
45	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension - Height	IS 1077
46	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension - Length	IS 1077
47	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension - Width	IS 1077
48	MECHANICAL- BUILDINGS MATERIALS	Concrete Beams	Flexural strength	IS 516 (Part 1, Section 1)
49	MECHANICAL- BUILDINGS MATERIALS	Concrete Cores	Compressive Strength	IS 516 (Part 4)
50	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Concrete Permeability Test	IS 3085
51	MECHANICAL- BUILDINGS MATERIALS	Concrete Cubes	Compressive Strength	IS 516 (Part 1, Section 1)
52	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Rodded)	IS 2386 (Part 3)
53	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (Part 2)
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
55	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Loose)	IS 2386 (Part 3)
56	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness Test (by Sodium Sulphate)	IS 2386 (Part 5)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11529 **Page No** 4 of 7

Validity 04/04/2023 to 03/04/2025 **Last Amended on** -

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57	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Light Weight Pieces (Coal and Lignite)	IS 2386 (Part 2)
58	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Particle Finer Than 75 Microns	IS 2386 (Part 2)
59	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (10mm to 0.150mm)	IS 2386 (Part 1)
60	MECHANICAL- BUILDINGS MATERIALS	Interlocking Paver Block	Dimension	IS 15658
61	MECHANICAL- BUILDINGS MATERIALS	Interlocking Paver Block	Compressive Strength	IS 15658
62	MECHANICAL- BUILDINGS MATERIALS	Interlocking Paver Block	Water Absorption	IS 15658
63	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Dry Sieving)	IS 2720 (Part 4)
64	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Wet Sieving by Hydrometer Analysis)	IS 2720 (Part 4)
65	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 (Part 2)
66	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio Test	IS 2720 (Part 16)
67	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - Cohesion Value	IS 2720 (Part 13)
68	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - phi value	IS 2720 (Part 13)
69	MECHANICAL- SOIL AND ROCK	Soil	Free Swelling Index	IS 2720 (Part 40)
70	MECHANICAL- SOIL AND ROCK	Soil	Liquid limit	IS 2720 (Part 5)
71	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density (Heavy Compaction)	IS 2720 (Part 8)
72	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density (Light Compaction)	IS 2720 (Part 7)
73	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content (Heavy Compaction)	IS 2720 (Part 8)
74	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content (Light Compaction)	IS 2720 (Part 7)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11529 **Page No** 5 of 7

Validity 04/04/2023 to 03/04/2025 **Last Amended on** -

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75	MECHANICAL- SOIL AND ROCK	Soil	Permeability Of Soil	IS 2720 (Part 17)
76	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
77	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
78	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3, Section 1 & 2)
79	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength Test	IS 2720 (Part 10)
80	MECHANICAL- SOIL AND ROCK	Stones	Compressive Strength	IS 1121 (Part 1)
81	MECHANICAL- SOIL AND ROCK	Stones	Specific Gravity	IS 1124
82	MECHANICAL- SOIL AND ROCK	Stones	Water Absorption Test	IS 1124
83	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Carbonation Depth (mm)	IS 516 (Part 5, Section 3)
84	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Half Cell Potential Test (mV)	IS 516 (Part 5, Section 2)
85	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Diameter & Spacing of Bars by Ferro Scanner	ASTM A615
86	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Rebound Hammer Test	IS 516 (Part 5, Section 4)
87	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Ultrasonic Pulse Velocity Test	IS 516 (Part 5, Section 1)
88	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Depth of Cover	BS 1881 (Part 204)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11529 **Page No** 6 of 7

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Site Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Bituminous Products (Bitumen DBM/ BC/ BM/ SDAC)	Binder Content	ASTM D2172 (Method A)
2	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulking of sand	IS 2386 (Part 3)
3	MECHANICAL- SOIL AND ROCK	Soil	Field Density (By Core Cutter Method)	IS 2720 (Part 29)
4	MECHANICAL- SOIL AND ROCK	Soil	Field Density (By Sand Replacement Method)	IS 2720 (Part 28)
5	MECHANICAL- SOIL AND ROCK	Soil	Plate Load Test	IS 1888
6	MECHANICAL- SOIL AND ROCK	Soil	Standard Penetration Test (Soil Investigation Test)	IS 2131
7	MECHANICAL- SOIL AND ROCK	Soil & Rock	Earth Resistivity Tests	IS 15736
8	MECHANICAL- SOIL AND ROCK	Subgrade soil	Modulus of Subgrade Reaction (K Value)	IS 9214
9	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Bituminous And Concrete Road	Surface Evenness Of Highway Pavements	IRC SP 16
10	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Bituminous and Concrete Section	Bridge Load Test	IRC SP 51
11	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Bituminous/ Concrete Road Section	Benkelman Beam Deflection Test	IRC 81
12	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Carbonation Depth (mm)	IS 516 (Part 5, Section 3)
13	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Half Cell Potential Test (mV)	IS 516 (Part 5, Section 2)
14	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Pile Load Test	IS 2911 (Part 4)

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Certificate Number TC-11529 **Page No** 7 of 7

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15	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Diameter & Spacing of Bars by Ferro Scanner	ASTM A615
16	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Rebound Hammer Test	IS 516 (Part 5, Section 4)
17	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Ultrasonic Pulse Velocity Test	IS 516 (Part 5, Section 1)
18	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Depth of Cover	BS 1881 (Part 204)