National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : L. S. TEST LAB LLP, 13A/68A/1, NEW RAJ NAGAR COLONY, SHAHDRA, AGRA, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9079 **Page No** 1 of 6

Validity 28/10/2022 to 27/10/2024 **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	Bituminous Mix (BM/BC/DBM/DBC)	Binder Content by Centrifuge Extractor	IRC SP 11
2	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix (BM/BC/DBM/DBC)	Density	ASTM D 2726
3	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix (BM/BC/DBM/DBC)	Marshall Flow Value	ASTM D 6927
4	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix (BM/BC/DBM/DBC)	Marshall Stability	ASTM D 6927
5	MECHANICAL- BUILDINGS MATERIALS	Bituminous PMB,CRMB, VG-30,VG-10	Ductility	IS: 1208
6	MECHANICAL- BUILDINGS MATERIALS	Bituminous PMB,CRMB, VG-30,VG-10	Fire Point	IS: 1209
7	MECHANICAL- BUILDINGS MATERIALS	Bituminous PMB,CRMB, VG-30,VG-10	Flash Point	IS: 1209
8	MECHANICAL- BUILDINGS MATERIALS	Bituminous PMB,CRMB, VG-30,VG-10	Kinematic Viscosity	IS: 1206 PT-3
9	MECHANICAL- BUILDINGS MATERIALS	Bituminous PMB,CRMB, VG-30,VG-10	Softening point	IS: 1205
10	MECHANICAL- BUILDINGS MATERIALS	Bituminous PMB,CRMB, VG-30,VG-10	Specific Gravity	IS: 1202
11	MECHANICAL- BUILDINGS MATERIALS	Bituminous PMB,CRMB,VG-30,VG-10	Absolute Viscosity	IS: 1206 PT-2
12	MECHANICAL- BUILDINGS MATERIALS	Bituminous PMB,CRMB,VG-30,VG-10	Penetration	IS: 1203
13	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay & Fly Ash)	Compressive Strength	IS 3495 (Part 1)
14	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay & Fly Ash)	Efflorescence	IS 3495 (Part 3)
15	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay & Fly Ash)	Water Absorption	IS 3495 (Part 2)
16	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive Strength	IS 4031 (Part-6)
17	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Density	IS 4031 (Part 11)
18	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Final Setting Time	IS 4031 (Part 5)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9079 **Page No** 2 of 6

Validity 28/10/2022 to 27/10/2024 **Last Amended on** -

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19	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness by Blaine Air Permeability Method	IS 4031 (Part 2)
20	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Initial Setting Time	IS 4031 (Part 5)
21	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Normal Consistency	IS 4031 (Part 4)
22	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Autoclave Expansion Method	IS 4031 (Part 3)
23	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Le-chatelier Expansion Method	IS 4031 (Part 3)
24	MECHANICAL- BUILDINGS MATERIALS	Clay Bricks / FlyAsh Bricks	Dimension (Length)	IS 1077:1992 / IS 13757
25	MECHANICAL- BUILDINGS MATERIALS	Clay Bricks / FlyAsh Bricks	Dimension (Width)	IS 1077:1992 / IS 13757
26	MECHANICAL- BUILDINGS MATERIALS	Clay Bricks/ FlyAsh Bricks	Dimension (Height)	IS 1077:1992 / IS 13757
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part 4)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Abrasion Value	IS: 2386 (Part - 4)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Crushing Value	IS 2386 (Part 4)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact Value	IS 2386 (Part 4)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Loose & Compacted)	IS 2386 (Part 3)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (2.36mm to 80 mm)	IS 2386 (Part-1)
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by MgSo4	IS 2386 (Part 5)
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na2So4	IS 2386 (Part 5)
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)

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Certificate Number TC-9079 **Page No** 3 of 6

Validity 28/10/2022 to 27/10/2024 **Last Amended on** -

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38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Stripping Value	IS 6241
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Total Deleterious Materials	IS 2386 (Part-1 & 2)
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
41	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
42	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (0.150mm to 10 mm)	IS 2386 (Part 1)
43	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by MgSo4	IS 2386 (Part 5)
44	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Na2So4	IS 2386 (Part 5)
45	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
46	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Total Deleterious Materials	IS 2386 (Part-1 & 2)
47	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
48	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Core Compressive Strength	IS: 516 (PT 4)
49	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Cube Compressive Strength	IS 516 (Part-1/sec-1)
50	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Abrasion Resistance	IS:15658
51	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Compressive Strength	IS 15658
52	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Dimension (Length)	IS 15658
53	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Dimension (Thickness)	IS 15658
54	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Dimension (Width)	IS 15658
55	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Water Absorption	IS 15658
56	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT Bar)	Bend Test	IS:1599

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9079 **Page No** 4 of 6

Validity 28/10/2022 to 27/10/2024 **Last Amended on** -

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57	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT Bar)	Elongation %	IS:1608 (Part-1)
58	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT Bar)	Mass per meter	IS:1786
59	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT Bar)	Re- Bend Test	IS:1786
60	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT Bar)	Ultimate Tensile Strength	IS: 1608 (Part-1)
61	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT Bar)	Yield Stress	IS:1608 (Part-1)
62	MECHANICAL- SOIL AND ROCK	Granular Sub Base/Wet Mix Macadam	California Bearing Ratio	IS 2720 (Part 16)
63	MECHANICAL- SOIL AND ROCK	Granular Sub Base/Wet Mix Macadam	Light/Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8)
64	MECHANICAL- SOIL AND ROCK	Granular Sub Base/Wet Mix Macadam	Light/Heavy Compaction - Optimum Moisture Content	IS 2720 (Part 8)
65	MECHANICAL- SOIL AND ROCK	Granular Sub Base/Wet Mix Macadam	Liquid Limit	IS 2720 (Part 5)
66	MECHANICAL- SOIL AND ROCK	Granular Sub Base/Wet Mix Macadam	Plastic Limit	IS 2720 (Part 5)
67	MECHANICAL- SOIL AND ROCK	Rock	Density using Saturation and Caliper Techniques	IS 13030
68	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143
69	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
70	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
71	MECHANICAL- SOIL AND ROCK	Soil	Consolidation - Compression Index	IS 2720 (Part 15)
72	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Cohesion	IS 2720 (Part 13)
73	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (Angle of Shearing Resistance)	IS 2720 (Part 13)
74	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
75	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (0.075 to 4.75 mm)	IS 2720 (Part 4)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9079 **Page No** 5 of 6

Validity 28/10/2022 to 27/10/2024 **Last Amended on** -

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76	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8)
77	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction- Optimum Moisture Content	IS 2720 (Part 8)
78	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
79	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
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	MECHANICAL- SOIL AND ROCK	Stone (Granite/Marble)	Compressive Strength	IS 1121 (Part-1)
83	MECHANICAL- SOIL AND ROCK	Stone (Granite/Marble)	Hardness (Mohs' Scale)	IS 13630 (Part 13)
84	MECHANICAL- SOIL AND ROCK	Stone (Granite/Marble)	Specific Gravity	IS 1124
85	MECHANICAL- SOIL AND ROCK	Stone (Granite/Marble)	Water Absorption	IS 1124

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Certificate Number TC-9079 **Page No** 6 of 6

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Site Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Bituminous/Concrete road Section	Bridge Load Test (Bituminous/Concrete Section)	IRCSP-51
2	MECHANICAL- SOIL AND ROCK	Soil	K- Value Test	IS: 9214
3	MECHANICAL- SOIL AND ROCK	Soil	Plate Load Test	IS:1888
4	MECHANICAL- SOIL AND ROCK	Soil	Standard Penetration Test (Soil Investigation Test) N Value	IS:2131
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	CONCRETE	PILE INTEGRITY TEST	ASTMD 5882-07
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Rebound Hammer Test	IS 516 (Part-5/Sec-4)
7	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	CONCRETE	ULTRASONIC PULSE VELOCITY TESTS	IS : 516 (Part-5/sec-1)