National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NATIONAL ENGINEERING SERVICES & CONSULTANCY, V.P.O LAKHANPUR, TEH. SADAR, BILASPUR, HIMACHAL PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8008 **Page No** 1 of 5

Validity 12/11/2021 to 11/11/2023 **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	Bitumen	Bitumen Mix Material Bulk Density	ASTM D 2726
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Bitumen Mix Material Density	ASTM D 2726
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Bitumen Mix Material Marshall Stability	ASTM D 6927
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Bitumen Mix Material Maximum Theroretical Specific Gravity	AASHTO T116
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	ASTM D 2041
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen & Bitumen Mix	Bitumen Binder Content	ASTM D 2172
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen & Bitumen Mix	Ductility	IS 1208
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen & Bitumen Mix	Peneteration	IS 1203
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen & Bitumen Mix	Softening Point	IS 1205
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen & Bitumen Mix	Solubility in Trichloroethylene	IS 1218
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Coagulation of Emulsion at Low Temperature	IS 8887
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Ductility at 27°C	IS 1208
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Particle Charge	IS 8887
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Penetration 25°C/100g/5Sec	IS 1203
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue by Evaporation	IS 8887-Annexure-J
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 microns	IS 8887-RA 2018
17	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Solubility in (TCH) Trichloroethylene,Percent By Mass	IS 1216
18	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Storage Stability after 24h	IS 8887

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19	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity By Saybolt furol Viscometer at 50°C	IS 3117
20	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity By Saybolt furol Viscometer at 25°C	IS 3117
21	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension and Tolerances	IS 1077
22	MECHANICAL- BUILDINGS MATERIALS	Brick	Water Absorption	IS 3495 (Part 2)
23	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 (Part 1)
24	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part 3)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part 4)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2385 (Part 4) - RA 2016
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
33	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516
34	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
35	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 micron/ slit content	IS 2386 (Part 1)
36	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1)
37	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)

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38	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
39	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Blocks for Paving / Paver Blocks/ Concrete Paving Blocks	Abrassion Resistance	IS 15658
40	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Blocks for Paving / Paver Blocks/ Concrete Paving Blocks	Compressive Strength	IS15658
41	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Blocks for Paving / Paver Blocks/ Concrete Paving Blocks	Dimensions, Thickness of wearing layer, Sqaureness, Arris/ Chamfer, Aspect Ratio	IS 15658
42	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Blocks for Paving / Paver Blocks/ Concrete Paving Blocks	Plan Area, Wearing Face Area	IS 15658
43	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Blocks for Paving / Paver Blocks/ Concrete Paving Blocks	Water Absorption	IS 15658
44	MECHANICAL- SOIL AND ROCK	Natural Stone	Apparent Porosity	IS 1124
45	MECHANICAL- SOIL AND ROCK	Natural Stone	Apparent Specific Gravity	IS 1124
46	MECHANICAL- SOIL AND ROCK	Natural Stone	Compressive Strength	IS 1121(Part 1)
47	MECHANICAL- SOIL AND ROCK	Natural Stone	True Specific Gravity	IS 1122
48	MECHANICAL- SOIL AND ROCK	Natural Stone	Water Absorption	IS 1124
49	MECHANICAL- SOIL AND ROCK	Soil	Angle of Internal Friction(Ø°)	IS 2720(Part 13)
50	MECHANICAL- SOIL AND ROCK	Soil	CBR Value Soaked	IS 2720 (Part16)
51	MECHANICAL- SOIL AND ROCK	Soil	Cohesive Strength Value(C)	IS 2720 (Part 13)
52	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test-Angle of Internal Friction(Degree)	IS 2720 (Part 13)
53	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test-Cohesion(kg/cm²)	IS 2720 (Part 13)
54	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
55	MECHANICAL- SOIL AND ROCK	Soil	Grain Sieve Analysis(Wet Sieve Analysis 4.75mm Passing & retain at 0.075mm)-Sand%	IS 2720 (Part 4)

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56	MECHANICAL- SOIL AND ROCK	Soil	Grain Sieve Analysis(Wet Sieve Analysis passing at 0.075mm)-Silt & Clay %	IS 2720 (Part 4)
57	MECHANICAL- SOIL AND ROCK	Soil	Grain Sieve Analysis(Wet Sieve Analysis retain at 4.75mm-Gravel %)	IS 2720
58	MECHANICAL- SOIL AND ROCK	Soil	UCS(Unconfined Compression Test) Compression Machine With Proving ring as Load Measuring Device	IS 2720(Part 10)
59	MECHANICAL- SOIL AND ROCK	Soil and Rock	Heavy Compaction Standard Procter MDD	IS 2720 (Part 7)
60	MECHANICAL- SOIL AND ROCK	Soil and Rock	Heavy Compaction Standard Procter OMC	IS 2720 (Part 7)
61	MECHANICAL- SOIL AND ROCK	Soil and Rock	Light Compaction Modified Procter MDD	IS 2720 (Part 8)
62	MECHANICAL- SOIL AND ROCK	Soil and Rock	Light Compaction Modified Procter OMC	IS 2720 (Part 8)
63	MECHANICAL- SOIL AND ROCK	Soil and Rock	Liquid Limit	IS 2720 (Part 5)
64	MECHANICAL- SOIL AND ROCK	Soil and Rock	Plastic Limit	IS 2720 (Part 5)

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Site Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Bitumen Mix Material Bulk Density	ASTM D 2726
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Bitumen Mix Material Density	ASTM D 2726
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Bitumen Mix Material Maximum Theroretical Specific Gravity	AASHTO T116
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen & Bitumen Mix	Bitumen Binder Content	ASTM D 2172
5	MECHANICAL- SOIL AND ROCK	Soil	Grain Sieve Analysis(Wet Sieve Analysis 4.75mm Passing & retain at 0.075mm)-Sand%	IS 2720 (Part 4)
6	MECHANICAL- SOIL AND ROCK	Soil	Grain Sieve Analysis(Wet Sieve Analysis passing at 0.075mm)-Silt & Clay %	IS 2720 (Part 4)
7	MECHANICAL- SOIL AND ROCK	Soil	Grain Sieve Analysis(Wet Sieve Analysis retain at 4.75mm-Gravel %)	IS 2720