National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TSC LAB (A UNIT OF TECHNOLOGY SOLUTION CONSULTANT LLP), PLOT NO.4, ROAD NO.2, VRINDAVAN COLONY, BORIYA ROAD, RANCHI, RANCHI, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8449 **Page No** 1 of 4

Validity 03/11/2021 to 02/11/2023 **Last Amended on** 15/11/2021

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:2185(Part-3)
2	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Density	IS:6441(Part-2)
3	MECHANICAL- BUILDINGS MATERIALS	Admixure	Relative Density	IS:9103
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Binder Content	IRC:SP 11
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility Test	IS:1208
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration Test	IS:1203
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point (40 to 140 deg C)	IS:1205
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific gravity	IS:1202
9	MECHANICAL- BUILDINGS MATERIALS	Brick(Burnt clay)	Compressive strength	IS:3495(Part-1)
10	MECHANICAL- BUILDINGS MATERIALS	Brick(Burnt clay)	Dimension(Height)	IS:1077
11	MECHANICAL- BUILDINGS MATERIALS	Brick(Burnt clay)	Dimension(width)	IS:1077
12	MECHANICAL- BUILDINGS MATERIALS	Brick(Burnt clay)	Water absorption	IS:3495(Part-2)
13	MECHANICAL- BUILDINGS MATERIALS	Brick(Burnt clay,Pulverised,Fly ash)	Dimension(Length)	IS:1077
14	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC,PPC,PSC)	Compressive strength(168 Hrs)	IS:4031(Part-6)
15	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC,PPC,PSC)	Compressive strength(672 Hrs)	IS:4031(Part-6)
16	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC,PPC,PSC)	Compressive strength(72 Hrs)	IS:4031(Part-6)
17	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC,PPC,PSC)	Density	IS:4031(Part-11)
18	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC,PPC,PSC)	Fineness by dry sieving	IS:4031(Part-1)

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19	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC,PPC,PSC)	Normal Consistency	IS:4031(Part-4)
20	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC,PPC,PSC)	Soundness(Le-Chatelier expansion	IS:4031(Part-3)
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Crushing value	IS:2386(Part-4)
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact value	IS:2386(Part-4)
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS:2386(Part-1)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Loose Bulk density	IS:2386(Part-3)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis(80mm, 63mm,40mm,20mm,16mm,12.5mm,10mm,4.75mm, 2.36mm)	IS:2386(Part-1)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness	IS:2386(Part-5)
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific gravity	IS:2386(Part-3)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS:2386(Part-3)
29	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural strength	IS:516
30	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516
31	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulking of sand	IS:2386(Part-3)
32	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Clay Lumps	IS:2386(Part-2)
33	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Loose Bulk density	IS:2386(Part-3)
34	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer then 75 micron	IS:2386(Part-2)
35	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (10 mm,4.75 mm,2.36 mm,1.18 mm,600 micron,300 micron,150 micron)	IS:2386(Part-1)
36	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific gravity	IS:2386(Part-3)

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37	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS:2386(Part-3)
38	MECHANICAL- BUILDINGS MATERIALS	Marble	Dimension(Length)	IS:1130
39	MECHANICAL- BUILDINGS MATERIALS	Marble	Dimension(Thickness)	IS:1130
40	MECHANICAL- BUILDINGS MATERIALS	Marble	Dimension(Width)	IS:1130
41	MECHANICAL- BUILDINGS MATERIALS	Marble	Hardness	IS: 13630
42	MECHANICAL- BUILDINGS MATERIALS	Marble	Specific gravity	IS:1122
43	MECHANICAL- BUILDINGS MATERIALS	Marble	Water Absorption	IS:1124
44	MECHANICAL- BUILDINGS MATERIALS	Paving block	Compressive strength	IS:15658
45	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Dimension(Height)	IS:15658
46	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Dimension(Length)	IS:15658
47	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Dimension(Width)	IS:15658
48	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Water Absorption	IS:15658
49	MECHANICAL- SOIL AND ROCK	Rock	Density	IS:13030
50	MECHANICAL- SOIL AND ROCK	Rock	Point load strength index	IS:8764
51	MECHANICAL- SOIL AND ROCK	Rock	Unconfind compressive strength	IS:9143
52	MECHANICAL- SOIL AND ROCK	Rock	Water Content of Rock	IS:13030
53	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
54	MECHANICAL- SOIL AND ROCK	Soil	Consolidation	IS 2720 (Part 15)
55	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test	IS 2720 (Part 13)

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56	MECHANICAL- SOIL AND ROCK	Soil	Direct shear test (Angle of Friction)	IS:2720(Part-13)
57	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
58	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (0.075 to 75 mm)	IS 2720 (Part 4)
59	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction	IS 2720 (Part 8)
60	MECHANICAL- SOIL AND ROCK	Soil	Heavy compaction(OMC)	IS:2720(Part-8)
61	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction	IS 2720 (Part 7)
62	MECHANICAL- SOIL AND ROCK	Soil	Light compaction(OMC)	IS:2720 (Part-7)
63	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
64	MECHANICAL- SOIL AND ROCK	Soil	Natural Moisture Content	IS 2720 (Part 2)
65	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
66	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/Sec 1)
67	MECHANICAL- SOIL AND ROCK	Soil	Triaxial shear test	IS 2720 (Part 11)
68	MECHANICAL- SOIL AND ROCK	Soil	Triaxial shear test (Angle of friction)	IS:2720 (Part-11)