National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MATERIAL TESTING LABORATORY, APEX ENGINEERS AND CONSULTANTS, H. NO. 43/S. N. P. 80A AND 80A/1, SHASHI NAGAR, SIKANDRA, AGRA, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9743 **Page No** 1 of 4

Validity 09/08/2021 to 08/08/2023 **Last Amended on** 16/08/2021

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	Bricks (Clay/ Fly Ash)	Compressive Strength	IS 3495 (Part-1)
2	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay/ Fly Ash)	Dimension (Length)	IS 1077
3	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay/ Fly Ash)	Dimension (Length)	IS 12894
4	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay/ Fly Ash)	Dimension (Thickness)	IS 12894
5	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay/ Fly Ash)	Dimension (Thickness)	IS 12894
6	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay/ Fly Ash)	Dimension (Width)	IS 1077
7	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay/ Fly Ash)	Dimension (Width)	IS 12894
8	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay/Fly Ash)	Efflorescence	IS 3495 (Part-3)
9	MECHANICAL- BUILDINGS MATERIALS	Bricks (Clay/Fly Ash)	Water Absorption	IS 3495 (Part-2)
10	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fine Value	IS 2386 (Part-4)
11	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part-3)
12	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-4)
13	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-1)
14	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part-1)
15	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part-4)
16	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (Part-1)
17	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness (Magnesium Sulphate, MgSO4)	IS 2386 (Part-5)
18	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness (Sodium Sulphate, Na2SO4)	IS 2386 (Part-5)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-9743	**Page No**	2 of 4
Validity	09/08/2021 to 08/08/2023	**Last Amended on**	16/08/2021

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19	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3)
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Total Deleterious Material (Material finer than 75 µm, Clay & Lumps and Coal & Lignite)	IS 2386 (Part-1 & 2)
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part-3)
22	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part-3)
23	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (Part-2)
24	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part-1)
25	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness (Magnesium Sulphate, MgSO4)	IS 2386 (Part-5)
26	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness (Sodium Sulphate, Na2SO4)	IS 2386 (Part-5)
27	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part-3)
28	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Total Deleterious Material (Material finer than 75 µm, Clay & Lumps and Coal & Lignite)	IS 2386 (Part-1 & 2)
29	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part-3)
30	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (Core)	Equivalent Cube Compressive Strength	IS 516 (Part-4)
31	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (Cube)	Compressive Strength	IS 516
32	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement or Blended Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part-6)
33	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement or Blended Cement (OPC/PPC)	Consistency	IS 4031 (Part-4)
34	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement or Blended Cement (OPC/PPC)	Setting Time (Final)	IS 4031 (Part-5)
35	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement or Blended Cement (OPC/PPC)	Setting Time (Initial)	IS 4031 (Part-5)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9743 **Page No** 3 of 4

Validity 09/08/2021 to 08/08/2023 **Last Amended on** 16/08/2021

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36	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement or Blended Cement (OPC/PPC)	Soundness (By Le-Chatelier)	IS 4031 (Part-3)
37	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement or Blended Cement (OPC/PPC)	Specific Gravity	IS 4031 (Part-11)
38	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving (Paver Block/Interlocking Tiles)	Abrasion Resistance to Wear (Dry)	IS 15658
39	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving (Paver Block/Interlocking Tiles)	Abrasion Resistance to Wear (Wet)	IS 15658
40	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving (Paver Block/Interlocking Tiles)	Compressive Strength	IS 15658
41	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving (Paver Block/Interlocking Tiles)	Dimension (Length)	IS 15658
42	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving (Paver Block/Interlocking Tiles)	Dimension (Thickness)	IS 15658
43	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving (Paver Block/Interlocking Tiles)	Dimension (Width)	IS 15658
44	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving (Paver Block/Interlocking Tiles)	Thickness of Wearing Layer	IS 15658
45	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving (Paver Block/Interlocking Tiles)	Water Absorption	IS 15658
46	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR Value, 96 Hours Soaked Condition)	IS 2720 (Part-16)
47	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Angle of Internal Friction, Phi Value)	IS 2720 (Part-13)
48	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion Intercept, C Value)	IS 2720 (Part-13)
49	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part-40)
50	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 (Part-4)
51	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Maximum Dry Density)	IS 2720 (Part-8)
52	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Optimum Moisture Content)	IS 2720 (Part-8)
53	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part-5)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-9743	**Page No**	4 of 4
Validity	09/08/2021 to 08/08/2023	**Last Amended on**	16/08/2021

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54	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part-2)
55	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part-5)
56	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part-3/Sec-1)