National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SM CONSULTANTS, QUALITY CONTROL DIVISION, H.NO 29/37/12, PLOT.NO 16, LAXMI NARAYANA COLONY, SUBHASH NAGAR, SECUNDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 09/06/2022 to 08/06/2024 **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	Bitumen	Ductility Test	IS :1208
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration Test @ 25°C, 0.1mm	IS : 1203
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening point	IS:1205
4	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimensions (length)	IS: 1077
5	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimensions (width)	IS: 1077
6	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimensions(Thickness)	IS: 1077
7	MECHANICAL- BUILDINGS MATERIALS	Brick (clay & Fly ash brick)	Water absorption	IS :3495 (part II)
8	MECHANICAL- BUILDINGS MATERIALS	Bricks(clay & Fly ash brick)	Compressive strength	IS 3495(part I)
9	MECHANICAL- BUILDINGS MATERIALS	Bricks(clay & Fly ash brick)	Effloresence	IS :3495(part III)
10	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Initial Setting time	IS :4031 (part 5)
11	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Normal consistency (Standard consistency)	IS :4031 (part 4)
12	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC/PSC)	compressive strength	is:4031 (part 6)
13	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC/PSC)	Final Setting Time	IS :4031 (part 5)
14	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC/PSC)	Fineness by dry sieving (% of residue)	IS:4031 (PART 1)
15	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC/PSC)	Soundness (Le-Chatelier Method)	IS :4031 (part 3)
16	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	crushing value	IS :2386(part IV)
17	MECHANICAL- BUILDINGS MATERIALS	coarse aggregate	Elongation index	IS:2386(part I)
18	MECHANICAL- BUILDINGS MATERIALS	coarse aggregate	Flakiness index	IS :2386(part I)

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19	MECHANICAL- BUILDINGS MATERIALS	coarse aggregate	Impact value	IS:2386(part IV)
20	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Sieve Analysis	IS 2386
21	MECHANICAL- BUILDINGS MATERIALS	coarse aggregate	specific gravity	IS:2386(part III)
22	MECHANICAL- BUILDINGS MATERIALS	coarse aggregate	water absorption	IS:2386(part III)
23	MECHANICAL- BUILDINGS MATERIALS	coarse aggregates	10% Fines value	IS:2386(part IV)
24	MECHANICAL- BUILDINGS MATERIALS	coarse aggrgate	Bulk density	IS 2386 (part III)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse aggrgate	Los angeles abrasion value	IS 2386 (IV)
26	MECHANICAL- BUILDINGS MATERIALS	Concrete(Hardened)	compressive strength	IS:516
27	MECHANICAL- BUILDINGS MATERIALS	Fine aggregates	Bulk density	IS :2386(part III)
28	MECHANICAL- BUILDINGS MATERIALS	Fine aggregates	sieve analysis	IS:2386(part I)
29	MECHANICAL- BUILDINGS MATERIALS	Fine aggregates	specific gravity	IS :2386 (part III)
30	MECHANICAL- BUILDINGS MATERIALS	Fine aggregates	Water absorption	IS :2386(part III)
31	MECHANICAL- BUILDINGS MATERIALS	Hallow/solid Block(up to 400 mm)	Compressive strength	IS : 2185 (part I)
32	MECHANICAL- BUILDINGS MATERIALS	Hallow/solid Block(up to 400 mm)	Density	IS: 2185 (part I)
33	MECHANICAL- BUILDINGS MATERIALS	Hallow/solid Block(up to 400 mm)	Water Absorption	IS : 2185 (part I)
34	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive strength	IS :15658
35	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Resistance to wear	IS :15658
36	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS :15658

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37	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel (Reinforcement steel)	Elongation	IS :1608 (Part 1)
38	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel (Reinforcement steel)	Mass per meter	IS: 1786
39	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel (Reinforcement steel)	Tensile strength	IS:1608 (Part 1)
40	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel (Reinforcement steel)	Yield stress	IS:1608 (Part 1)
41	MECHANICAL- SOIL AND ROCK	Rock	Unconfined compressive strength	IS :9143
42	MECHANICAL- SOIL AND ROCK	Rock	Water Absorption	IS :1124
43	MECHANICAL- SOIL AND ROCK	soil	Atterberg's limits (Liquid Limit)	IS:2720 (part 5)
44	MECHANICAL- SOIL AND ROCK	soil	Atterberg's Limits(Plastic Limit)	IS: 2720(part 5)
45	MECHANICAL- SOIL AND ROCK	soil	California Bearing Ratio (CBR)	IS: 2720 (part 16)
46	MECHANICAL- SOIL AND ROCK	soil	Consolidation Test	IS :2720 (part 15)
47	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (angle of shearing resistance)	IS 2720 (Part-13)
48	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion)	IS 2720 (Part-13)
49	MECHANICAL- SOIL AND ROCK	soil	Free swell Index	IS:2720 (part XXXX)
50	MECHANICAL- SOIL AND ROCK	soil	Grain Size Analysis (Dry sieve Analysis)	IS :2720 (part IV)
51	MECHANICAL- SOIL AND ROCK	soil	Grain size Analysis (Wet sieve Analysis)	IS:2720 (part IV)
52	MECHANICAL- SOIL AND ROCK	Soil	Max. Dry Density (By Heavy Compaction)	IS 2720 (Part VIII)
53	MECHANICAL- SOIL AND ROCK	Soil	Max. Dry Density (By Light Compaction)	IS 2720 (Part VII)

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54	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content (By Heavy Compaction)	IS 2720 (Part VIII)
55	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content (By Light Compaction)	IS 2720 (Part VII)
56	MECHANICAL- SOIL AND ROCK	soil	Specific gravity	IS:2720 (part III) sec.1/2
57	MECHANICAL- SOIL AND ROCK	Soil	Tri-axial Compression Without pore pressure (angle of shearing resistance)	IS: 2720 (Part –11)
58	MECHANICAL- SOIL AND ROCK	Soil	Tri-axial Compression Without pore pressure (Cohesion)	IS: 2720 (Part –11)
59	MECHANICAL- SOIL AND ROCK	soil	Water content	IS :2720 (part II)
60	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	concrete	Rebound Hammer Test	IS 516:Part 5,Sec 4
61	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	concrete	ultrasonic pulse velocity	IS 516: Part 5,Sec 1