



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-8322 Page No. : 1 / 7

Validity 01/02/2019 to 31/01/2021 Last Amended on -

'In view of the transition deadline for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020.'

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility Test	IS :1208 : 1978	1 cm to 100 cm
2	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration Test	IS : 1203: 1978	0.01 to 40.0
3	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening point	IS:1205: 1978	5 Deg C to 110 Deg C
4	MECHANICAL-BUILDINGS MATERIALS	Brick	Dimensions (breadth)	IS: 1077: 1992	1 mm to 2600 mm
5	MECHANICAL-BUILDINGS MATERIALS	Brick	Dimensions (length)	IS: 1077: 1992	1 mm to 5000 mm
6	MECHANICAL-BUILDINGS MATERIALS	Brick	Dimensions(Thickness)	IS: 1077: 1992	1 mm to 1600 mm
7	MECHANICAL-BUILDINGS MATERIALS	Brick (clay & Fly ash brick)	Water absorption	IS :3495 (part II): 1992	1 % to 25 %
8	MECHANICAL-BUILDINGS MATERIALS	Bricks(clay & Fly ash brick)	Compressive strength	IS 3495(part I): 1992	1 N/mm ² to 20 N/mm ²
9	MECHANICAL-BUILDINGS MATERIALS	Bricks(clay & Fly ash brick)	Efflorescence	IS :3495(part III): 1992	Qualitative



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Certificate Number TC-8322 Page No. : 2 / 7

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10	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Initial Setting time	IS :4031 (part 5): 1988	30 min to 600 min
11	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Normal consistency (Standard consistency)	IS :4031 (part 4): 1988	10 % to 50 %
12	MECHANICAL-BUILDINGS MATERIALS	Cement(OPC/PPC/PS C)	compressive strength	is:4031 (part 6): 1988	2 N/mm ² to 80 N/mm ²
13	MECHANICAL-BUILDINGS MATERIALS	Cement(OPC/PPC/PS C)	Final Setting Time	IS :4031 (part 5): 1988	30 min to 600 min
14	MECHANICAL-BUILDINGS MATERIALS	Cement(OPC/PPC/PS C)	Fineness by dry sieving (% of residue)	IS:4031 (PART 1): 1996	0 to 100 %
15	MECHANICAL-BUILDINGS MATERIALS	Cement(OPC/PPC/PS C)	Soundness (Le-Chatelier Method)	IS :4031 (part 3): 1988	0.1 mm to 10 mm
16	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	crushing value	IS :2386(part IV): 1963	5 % to 60 %
17	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	Elongation index	IS:2386(part I): 1963	5 % to 80 %
18	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	Flakiness index	IS :2386(part I): 1963	5 % to 80 %



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Certificate Number TC-8322 Page No. : 3 / 7

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19	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	Impact value	IS:2386(part IV): 1963	5 % to 60 %
20	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	Sieve Analysis	IS 2386: 1963	4.75mm to 80mmUpto 100%
21	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	specific gravity	IS:2386(part III): 1963	1.5 to 4
22	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	water absorption	IS:2386(part III): 1963	0.1 % to 10 %
23	MECHANICAL-BUILDINGS MATERIALS	coarse aggregates	10% Fines value	IS:2386(part IV): 1963	40 kN to 600 kN
24	MECHANICAL-BUILDINGS MATERIALS	coarse aggrgate	Bulk density	IS 2386 (part III): 1963	1 g/cc to 3 g/cc
25	MECHANICAL-BUILDINGS MATERIALS	Coarse aggrgate	Los angeles abrasion value	IS 2386 (IV): 1963	5 % to 60 %
26	MECHANICAL-BUILDINGS MATERIALS	Concrete(Hardened)	compressive strength	IS:516: 1959	2 N/mm ² to 80 N/mm ²
27	MECHANICAL-BUILDINGS MATERIALS	Fine aggregates	Bulk density	IS :2386(part III): 1963	1 kg/l to 3 kg/l



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Certificate Number TC-8322 Page No. : 4 / 7

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28	MECHANICAL-BUILDINGS MATERIALS	Fine aggregates	sieve analysis	IS:2386(part I): 1963	4.75mm to 75micron1% to 100%
29	MECHANICAL-BUILDINGS MATERIALS	Fine aggregates	specific gravity	IS :2386 (part III): 1963	1.5 to 4
30	MECHANICAL-BUILDINGS MATERIALS	Fine aggregates	Water absorption	IS :2386(part III): 1963	0.1 % to 10 %
31	MECHANICAL-BUILDINGS MATERIALS	Hallow/solid Block(up to 400 mm)	Compressive strength	IS : 2185 (part I): 2005	1 N/mm ² to 30 N/mm ²
32	MECHANICAL-BUILDINGS MATERIALS	Hallow/solid Block(up to 400 mm)	Density	IS: 2185 (part I): 2005	1000 kg/m ³ to 3000 kg/m ³
33	MECHANICAL-BUILDINGS MATERIALS	Hallow/solid Block(up to 400 mm)	Water Absorption	IS : 2185 (part I): 1985	1 % to 20 %
34	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Compressive strength	IS :15658: 2006	1 N/mm ² to 70 N/mm ²
35	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Resistance to wear	IS :15658: 2006	1000 mm ³ to 10000 mm ³
36	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Water Absorption	IS :15658: 2006	0.1 % to 30 %



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Certificate Number TC-8322 Page No. : 5 / 7

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37	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel (Reinforcement steel)	Elongation	IS :1608: 2005	5 % to 30 %
38	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel (Reinforcement steel)	Mass per meter	IS: 1786: 2008	0.01 kg/m to 10 kg/m
39	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel (Reinforcement steel)	Tensile strength	IS:1608: 2005	100 N/mm ² to 800 N/mm ²
40	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel (Reinforcement steel)	Yield stress	IS:1608: 2005	100 N/mm ² to 700 N/mm ²
41	MECHANICAL- SOIL AND ROCK	Rock	Unconfined compressive strength	IS :9143: 1979	1 N/mm ² to 100 N/mm ²
42	MECHANICAL- SOIL AND ROCK	Rock	Water Absorption	IS :1124: 1974	0.1 % to 10 %
43	MECHANICAL- SOIL AND ROCK	soil	Atterberg's limits (Liquid Limit)	IS:2720 (part 5): 1985	15 % to 80 %
44	MECHANICAL- SOIL AND ROCK	soil	Atterberg's Limits(Plastic Limit)	IS: 2720(part 5): 1985	Non plastic to 50
45	MECHANICAL- SOIL AND ROCK	soil	California Bearing Ratio (CBR)	IS: 2720 (part 16): 1987	1 % to 100 %
46	MECHANICAL- SOIL AND ROCK	soil	Consolidation Test	IS :2720 (part 15): 1976	0.1 Cc to 0.5 Cc



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Certificate Number TC-8322 Page No. : 6 / 7

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47	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (angle of shearing resistance)	IS 2720 (Part-13): 1986	1 Degree to 50 Degree
48	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion)	IS 2720 (Part-13): 1986	0.1 kg/cm ² to 0.3 kg/cm ²
49	MECHANICAL- SOIL AND ROCK	soil	Free swell Index	IS:2720 (part XXXX): 1977	1 % to 100 %
50	MECHANICAL- SOIL AND ROCK	soil	Grain Size Analysis (Dry sieve Analysis)	IS :2720 (part IV): 1985	0 to 100 %
51	MECHANICAL- SOIL AND ROCK	soil	Grain size Analysis (Wet sieve Analysis)	IS:2720 (part IV): 1985	0.01 % to 100 %
52	MECHANICAL- SOIL AND ROCK	soil	Specific gravity	IS:2720 (part III) sec.1/2: 1980	1 to 4
53	MECHANICAL- SOIL AND ROCK	Soil	Tri-axial Compression Without pore pressure (angle of shearing resistance)	IS: 2720 (Part -11): 1993	1 Degree to 30 Degree
54	MECHANICAL- SOIL AND ROCK	Soil	Tri-axial Compression Without pore pressure (Cohesion)	IS: 2720 (Part -11): 1993	0.2 kg/cm ² to 10 kg/cm ²
55	MECHANICAL- SOIL AND ROCK	soil	Water content	IS :2720 (part II): 1973	0.5 % to 50 %
56	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	concrete	compressive strength	IS 13311-2: 1992	10 N/mm ² to 70 N/mm ²



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57	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	concrete	ultrasonic pulse velocity	IS 13311-1: 1992	100 m/s to 5000 m/s