



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name                      STRUCT GEOTECH RESEARCH LABORATORIES PRIVATE LIMITED, # 588, 2ND MAIN, 6TH BLOCK, HOSAKEREHALLI CROSS, BANASHANKARI 3RD STAGE, 2ND PHASE, BENGALURU, KARNATAKA, INDIA

Accreditation Standard              ISO/IEC 17025:2017

Certificate Number                    TC-5288    Page No. :    1 / 7

Validity                                      12/04/2019 to 11/04/2021                      Last Amended on    -

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
<b>Permanent Facility</b>					
1	MECHANICAL-BUILDINGS MATERIALS	Aggregates Coarse	10% fines value	IS:2386-1963 Part 4- Reaffirmed: 2016	1 kN to 400 kN
2	MECHANICAL-BUILDINGS MATERIALS	Aggregates Coarse	Bulk Density - Loose/Rodded	IS:2386-1963 Part 3- Reaffirmed: 2016	1.0 kg/l to 2.5 kg/l
3	MECHANICAL-BUILDINGS MATERIALS	Aggregates Coarse	Crushing Value	IS:2386-1963 Part 4- Reaffirmed : 2016	1 % to 60 %
4	MECHANICAL-BUILDINGS MATERIALS	Aggregates Coarse	Elongation Index	IS:2386-1963 Part 1- Reaffirmed: 2016	1 % to 50 %
5	MECHANICAL-BUILDINGS MATERIALS	Aggregates Coarse	Flakiness Index	IS:2386-1963 Part 1- Reaffirmed: 2016	1 % to 50 %
6	MECHANICAL-BUILDINGS MATERIALS	Aggregates Coarse	Impact value	IS: 2386-1963 Part 4- Reaffirmed: 2016	1 % to 50 %
7	MECHANICAL-BUILDINGS MATERIALS	Aggregates Coarse	Sieve Analysis	IS:2386-1963 Part 1- Reaffirmed: 2016	75 micron to 125 mm
8	MECHANICAL-BUILDINGS MATERIALS	Aggregates Coarse	Specific gravity	IS:2386-1963 Part 3- Reaffirmed: 2016	1.5 to 4.0
9	MECHANICAL-BUILDINGS MATERIALS	Aggregates Coarse	Water Absorption	IS:2386-1963 Part 3- reaffirmed: 2016	1 % to 10 %



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10	MECHANICAL-BUILDINGS MATERIALS	Aggregates Fine	Bulk density (Loose & Rodded)	IS:2386-1963 Part 3- reaffirmed: 2016	1.0 kg/l to 2.5 kg/l
11	MECHANICAL-BUILDINGS MATERIALS	Aggregates Fine	Material finer than 75 - micron	IS:2386-1963 Part 1- Reaffirmed: 2016	0.1 to 20
12	MECHANICAL-BUILDINGS MATERIALS	Aggregates Fine	Sieve analysis	IS:2386-1963 Part 1- Reaffirmed: 2016	150 micron to 10 mm
13	MECHANICAL-BUILDINGS MATERIALS	Aggregates Fine	Specific gravity	IS:2386-1963 Part 3- reaffirmed: 2016	1.0 to 3.0
14	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208-1978 - Reaffirmed: 2013	40 cm to 100 cm
15	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Flash & Fire Point	IS 1209-1978 - Reaffirmed: 2013	100 °C to 300 °C
16	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203-1978 - Reaffirmed: 2013	35 to 100
17	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205-1978 - Reaffirmed: 2013	25 °C to 80 °C
18	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202-1978 - Reaffirmed: 2013	0.99 to 1.102
19	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix	Marshal Stability and Flow	ASTM D 6927 --: 2006	5 kN to 50 kN



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20	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix	Stripping value of aggregate	IS 6241-1971 - Reaffirmed: 2013	90 % to 100 %
21	MECHANICAL-BUILDINGS MATERIALS	Burnt clay Bricks	Compressive strength	IS 3495-1992, Par-1 Reaffirmed: 2011	1.0 N/mm <sup>2</sup> to 15.0 N/mm <sup>2</sup>
22	MECHANICAL-BUILDINGS MATERIALS	Burnt clay Bricks	Dimension (H)	IS 1077:1992 - Reaffirmed: 2011	1200 mm to 1700 mm
23	MECHANICAL-BUILDINGS MATERIALS	Burnt clay bricks	Dimension (W)	IS 1077:1992 - Reaffirmed: 2011	1800 mm to 2100 mm
24	MECHANICAL-BUILDINGS MATERIALS	Burnt clay Bricks	Dimensions(L)	IS 1077:1992 - Reaffirmed: 2011	4000 mm to 5000 mm
25	MECHANICAL-BUILDINGS MATERIALS	Burnt clay Bricks	Efflorescence	IS:3495 -1992, part 3): 2011	Qualitative(Visual )
26	MECHANICAL-BUILDINGS MATERIALS	Burnt clay Bricks	Water Absorption	IS:3495- 1992, Part 2- Reaffirmed: 2011	2 % to 20 %
27	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive strength	IS:4031 - 1988, Part 6 Reaffirmed: 2014	10 N/mm <sup>2</sup> to 60 N/mm <sup>2</sup>
28	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS:4031- 1988, Part 4- Reaffirmed: 2014	20 % to 40 %
29	MECHANICAL-BUILDINGS MATERIALS	Cement	Final setting time	IS:4031 (Part 5) 1988: 2014	100 minutes to 600 minutes



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30	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness - Dry Sieving Method	IS: 4031-1996, Part-1, Clause No.5, Reaffirmed: 2016	0.1 % to 10 %
31	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness-Blaine's air permeability method	IS: 4031-1999, Part-2 Reaffirmed: 2013	200 m <sup>2</sup> /kg to 600 m <sup>2</sup> /kg
32	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial setting time	IS: 4031-1988, Part-5 Reaffirmed: 2014	10 minute to 250 minute
33	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness(Le-Chatelier's method)	IS: 4031 -1988, Part-3 Clause No.-5 Reaffirmed: 2014	0.05 mm to 10 mm
34	MECHANICAL-BUILDINGS MATERIALS	Concrete BlocksHollow / Solid	Block Density	IS:2185 (Part 1) - 2005 Reaffirmed: 2015	1000 kg/m <sup>3</sup> to 2600 kg/m <sup>3</sup>
35	MECHANICAL-BUILDINGS MATERIALS	Concrete BlocksHollow / Solid	Compressive Strength	IS:2185 (Part 1) - 2005 - Annexure D - Reaffirmed: 2015	1 N/mm <sup>2</sup> to 20 N/mm <sup>2</sup>
36	MECHANICAL-BUILDINGS MATERIALS	Concrete BlocksHollow / Solid	Water absorption	IS:2185 (Part 1) - 2005 - Reaffirmed: 2015	1 % to 10 %
37	MECHANICAL-BUILDINGS MATERIALS	Concrete Cubes and Cores	Compressive Strength	IS:516-1959 Reaffirmed : 2013	10 N/mm <sup>2</sup> to 70 N/mm <sup>2</sup>
38	MECHANICAL- SOIL AND ROCK	Rock	Point Load Index	IS 8764 - 1998 (RA 2008) ASTM D 5731 - : 2002	1 MPa to 30 MPa
39	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive strength of rock materials	IS 9143 - 1979 Reaffirmed: 2011	1 MPa to 300 MPa



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40	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS: 2720- 1987, Part 16 Reaffirmed: 2011	1 % to 60 %
41	MECHANICAL- SOIL AND ROCK	Soil	Consolidation	IS: 2720 (Part 15) - 1986 - RA: 2011	1 % to 100 %
42	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (C)	IS: 2720 - 1986, Part- 13, Reaffirmed: 2011	0.02 kg/cm <sup>2</sup> to 0.40 kg/cm <sup>2</sup>
43	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Ø)	IS: 2720 - 1986, Part- 13, Reaffirmed: 2011	1 ° to 50 °
44	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS: 2720 (Part 40)- 1987-Reaffirmed: 2011	0 to 100 %
45	MECHANICAL- SOIL AND ROCK	Soil	Grain size analysis by wet sieving analysis	IS:2720-1985, Part 4, Reaffirmed: 2015	75 micron to 4.75 mm
46	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Maximum Dry Density)	IS:2720 (Part 8) 1988 - Reaffirmed: 2015	1.0 g/cm <sup>3</sup> to 3.0 g/cm <sup>3</sup>
47	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Optimum Moisture Content)	IS:2720 (Part 8) 1988 - Reaffirmed: 2015	5 % to 35.0 %
48	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (Maximum Dry Density)	IS:2720 (Part 8) 1980 - Reaffirmed: 2011	1.0 g/cm <sup>3</sup> to 3.0 g/cm <sup>3</sup>
49	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (Optimum Moisture Content)	IS:2720 (Part 8) 1980 - Reaffirmed: 2011	6 % to 30 %
50	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS:2720 - 1985, Part-5, Reaffirmed: 2015	20 % to 60 %
51	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS:2720 - 1985, Part-5, Reaffirmed: 2015	6 % to 40 %
52	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test (C)	IS: 2720 (Part 11) 1993-Reaffirmed: 2011	0.1 kg/cm <sup>2</sup> to 5 kg/cm <sup>2</sup>



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53	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test ( $\emptyset$ )	IS: 2720 (Part 11) 1993-Reaffirmed: 2011	1 ° to 40 °
54	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS: 2720 (Part 10) 1991- Reaffirmed: 2015	0 to 5 kg/cm <sup>2</sup>
55	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS: 2720 (Part 2) 1973 Reaffirmed: 2015	1 % to 30 %
56	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Carbonation Test	BS: 1881 (Part 201) : 1986	0 to 40 mm
57	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Cover meter Test	BS: 1881 (Part 204) : 1988	5 mm to 70 mm
58	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Deflection Measurement Data (Load Test)	IS-456: 2000	3 mm to 12 mm
59	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Half Cell potential Test	ASTMC-876: 2009	-100 mV to -900 mV



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60	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Rebound Hammer Test	IS:13311 (Part II) 1992 Reaffirmed: 2013	1 to 60
61	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Ultrasonic Pulse Velocity Test	IS:13311 (Part I) 1992 Reaffirmed: 2013	1.0 km/s to 5.0 km/s
62	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Pile Testing	High Strain Dynamic Pile Testing	ASTM D 4945 : 2017	1000 kN to 17500 kN
63	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Pile Testing	Low Strain Pile Integrity Testing	ASTM D 5882-07, IS 14893 -2001 Reaffirmed: 2015	2000 m/s to 5000 m/s