

Laboratory **Snow Fountain Consultants, Snow Fountain Tower, 46-Woodland Garden, Scorpio Club Campus, Kursi Road, Lucknow, Uttar Pradesh**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-6796 (in lieu of T -3781)** Page 1 of 4

Validity **18.01.2018 to 17.01.2020** Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
-----	----------------------------	-------------------------	---	--

MECHANICAL TESTING

I.	BUILDING MATERIAL			
1.	Bricks	Compressive Strength	IS 3495 (Part - 1)	1 N/mm ² to 20 N/mm ²
		Water Absorption	IS 3495 (Part - 2)	1% to 40%
		Dimension Length Width Height	IS 1077	4520 mm to 4680 mm 2160 mm to 2240 mm 1360 mm to 1440 mm
2.	Concrete	Compressive Strength of Hardened Concrete	IS 516	5 N/mm ² to 80 N/mm ²
3.	Coarse Aggregates	Sieve Analysis	IS 2386 (Part - 1)	80 mm to 4.75 mm
		Specific Gravity	IS 2386 (Part - 3)	2 to 4
		Water Absorption	IS 2386 (Part - 3)	0.1% to 10%
		Flakiness Index	IS 2386 (Part - 1)	1% to 70%
		Elongation	IS 2386 (Part - 1)	1% to 70%
		Impact Value	IS 2386 (Part - 4)	1% to 60%
		Crushing Value	IS 2386 (Part - 4)	1% to 60%
		Abrasion Resistance	IS 2386 (Part - 4)	1% to 60%
4.	Fine Aggregates	Bulk density	IS 2386 (Part - 3)	1 kg/L to 3 kg/L
		Sieve Analysis	IS 2386 (Part - 1)	4.75 mm to 0.075 mm
		Material Finer than 75 micron	IS 2386 (Part - 1)	1% to 100%
II.	SOIL & ROCK			
1.	Soil	Gradation	IS 2720 (Part - 4)	80 mm to 75 micron (0 to 100%)
		Liquid Limit	IS 2720 (Part - 5)	20% to 45%
		Plastic Limit	IS 2720 (Part - 5)	15% to 25%
		Light Compaction MDD OMC	IS 2720 (Part - 7)	1.1 g/cc to 3 g/cc 5% to 30%

Laboratory **Snow Fountain Consultants, Snow Fountain Tower, 46-Woodland Garden, Scorpio Club Campus, Kursi Road, Lucknow, Uttar Pradesh**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-6796 (in lieu of T -3781)** **Page 2 of 4**

Validity **18.01.2018 to 17.01.2020** **Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Heavy Compaction MDD OMC	IS 2720 (Part - 8)	1.1 g/cc to 3 g/cc 5% to 25%
		Moisture Content	IS 2720 (Part - 2)	1% to 40%
		Triaxial Test (UU) C Ø	IS 2720 (Part 11)	15 kPa to 200 kPa 5° to 35°
		Specific Gravity	IS: 2720 (Part 3)	2.62 to 2.80
		Free Swell Index	IS 2720 (Part 40)	0 to 30%
		Consolidation (Cc)	IS 2720 (Part 15)	0.01 to 0.25
		Direct Shear Ø C	IS 2720 (Part 13)	25° to 40° 0 to 10 kPa
		Hydrometer Analysis	IS 2720 (Part 4)	2µm to 75µm

Laboratory **Snow Fountain Consultants, Snow Fountain Tower, 46-Woodland Garden, Scorpio Club Campus, Kursi Road, Lucknow, Uttar Pradesh**
Accreditation Standard **ISO/IEC 17025: 2005**
Certificate Number **TC-6796 (in lieu of T -3781)** **Page 3 of 4**
Validity **18.01.2018 to 17.01.2020** **Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
-----	----------------------------	-------------------------	---	--

MECHANICAL TESTING

AT SITE				
I.	SOIL & ROCK			
1.	Soil	Standard Penetration Test	IS: 2131	1 to 50
		FDD by Sand Replacement Method	IS: 2720 (Part 28)	1.52 g/cc to 2.3 g/cc
		FDD by Core Cutter Method	IS: 2720 (Part 29)	1.52 g/cc to 2.3 g/cc

Laboratory **Snow Fountain Consultants, Snow Fountain Tower, 46-Woodland Garden, Scorpio Club Campus, Kursi Road, Lucknow, Uttar Pradesh**
Accreditation Standard **ISO/IEC 17025: 2005**
Certificate Number **TC-6796 (in lieu of T -3781)** **Page 4 of 4**
Validity **18.01.2018 to 17.01.2020** **Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
-----	----------------------------	-------------------------	---	--

NON-DESTRUCTIVE TESTING

AT SITE				
I.	BUILDING MATERIALS-REINFORCED CONCRETE STRUCTURE			
1.	Building Materials-Reinforced Concrete Structure	Ultrasonic Pulse Velocity Tests	IS:13311 (Part 1)	0.70 μ s to 1.30 μ s
		Rebound Hammer Test	IS:13311 (Part 2)	10 N/mm ² to 80 N/mm ²