Laboratory	Genstru Consultants Pvt. Ltd., Matreya Society, Flat No. B-02, Sector No. 40-42, Venu Nagar, Wakad, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2017		
Certificate Number	TC-5082	Page 1 of 2	
Validity	29.12.2018 to 28.12.2020	Last Amended on	

SI.	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
		performed	

MECHANICAL TESTING

I.	SOIL & ROCK			
1.	Soil	Moisture Content	IS 2720 (Part 2)	Upto 600 %
		Liquid Limit	IS 2720 (Part 5)	20 % to 600 %
		Plastic Limit	IS 2720 (Part 5)	15 % to 100 %
		Shrinkage Limit	IS 2720 (Part 6)	10 % to 50 %
		Specific Gravity	IS 2720 (Part 3 & Sec 1)	1.5 to 3
		Grain Size Analysis (Wet and Dry Sieve analysis) (4.75 mm to 75 micron)	IS 2720 (Part 4)	0.1 % to 100 %
		Grain Size Analysis (Hydrometer analysis) (2 micron to 75micron)	IS 2720 (Part 4), Cl.5.2	0.1 % to 90 %
		Free Swell Index	IS 2720 (Part 40)	1 % to 200 %
		Direct Shear Test	IS 2720 (Part 13)	Cohesion=upto 4 kg/cm ²
				Angle of Friction= Upto 50°
		Consolidation Test	IS 2720 (Part 15)	Cc=0.2 to 0.9
				Pc=0.05 kg/cm ² to 3.0 kg/cm ²
		Unconsolidated Undrained Triaxial Test	IS 2720 (Part 11)	Cohesion=Upto 4 kg/cm ²
				Angle of Friction= Upto 35°
		Unconfined Compressive Strength	IS 2720 (Part 10)	0.01 kg/cm ² to 8 kg/cm ²
		Light Compaction	IS 2720 (Part 7)	MDD=1.2 g/cc to 2.2 g/cc
				OMC=5 % to 30 %
		Heavy Compaction	IS 2720 (Part 8)	MDD= 1.2 g/cc to 2.2 g/cc
				OMC= 5 % to 30 %

Genstru Consultants Pvt. Ltd., Matreya Society, Flat No. B-02, Sector Laboratory No. 40-42, Venu Nagar, Wakad, Pune, Maharashtra

Acc	reditation Standard	ISO/IEC 17025: 2017		
Cer	tificate Number	TC-5082	Page 2 of 2	1
Val	idity	29.12.2018 to 28.12.20	20 Last Amen	ded on
SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		CBR	IS 2720 (Part 16)	1 % to 45 %
2.	Rock	Water Absorption	IS 13030	Upto 25 %
J	ROOK		10 10000	0010 20 /0

IS 13030

IS 13030

IS 9143

IS 8764

IS 1122

IS 1124

IS 1124

IS 1124

Porosity

Unconfined Compressive

Point Load Index

True Specific Gravity

Apparent Specific Gravity

Water Absorption

Density

Strength

Porosity

3.

Natural Stone

Upto 50 %

Upto 35 MPa

2 to 3.5

2 to 3.5

Upto 25 %

Upto 30 %

1.5 g/cc to 4 g/cc

10 MPa to 500 MPa