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Ref: P/Soil/ T & Con/ 2024/ 2008 02.08.2024

REPORT ON RESULTS OF STANDARD PENETRATION TEST ON FOUNDATION SOIL

Client : M/s. EIVAA Homess India LLP,
Kalapatti,
Coimbatore – 641 048.

Reference : 1.Your letter dated 12.08.2023
2. P/Soil/T&Con/2023/ 2018 Dt: 18.08.2023
3. Your letter dated: 02.08.2024

Date of Test : 18.08.2023

Location : Proposed construction site for individual villas at Kalapatti (S.F No: 83/1B, 1D, 1F, 1G & 94/1A) near SVB Tech Park, Coimbatore

Officers conducting the test : Dr. P. Senthil Kumar, Professor,
Department of Civil Engineering,
PSG College of Technology,
Peelamedu,
Coimbatore - 641 004.

Client's representative at site : Er. Venkat, EIVAA Homess India LLP, Coimbatore

Position of ground water table : Not met at the time of investigation

Soil Profile and N- value:

Pit No.	Depth of investigation	Soil Profile upto the depth of investigation	Stratum at the test level	N-Value
1 (South)	1.9 m	0.0-1.0 m: Clay 1.0-1.7 m: Silty gravel 1.7-1.9 m: Soft disintegrated rock	Soft disintegrated rock	More than 50
2 (West)	2.7 m	0.0-1.2 m: Clay 1.2-2.5 m: Silty gravel 2.5-2.7 m: Soft disintegrated rock	Soft disintegrated rock	More than 50
3 (North)	3.0 m	0.0-0.9 m: Clay 0.9-2.5 m: Silty gravel 2.5-3.0 m: Soft disintegrated rock	Soft disintegrated rock	More than 50
4 (East)	2.0 m	0.0-1.2 m: Murrum 1.2-2.0 m: Soft disintegrated rock	Soft disintegrated rock	More than 50

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Analysis of test results:

As the N-value is more than 50 at the level of testing in all the locations, the stratum at the proposed foundation level is said to be refusal. However, for calculation purposes, it is taken as 50.

As the N-value is high and the foundation size is likely to be large, settlement rather than shear failure would govern the design. Hence, the bearing pressure corresponding to settlement consideration itself is the allowable bearing capacity.

The net bearing pressure, q, (in t/m^2) corresponding to a settlement of 40 mm is given by

$$q = 5.54(N-3)\left[\frac{B+0.3}{2B}\right]^2 R$$

where,

B: Maximum size of the footing (taken as 3.0m)
R: Water table correction factor (For the worst case, taken as 0.5)

$$\therefore q = 5.54(50-3)\left[\frac{3.0+0.3}{2x3.0}\right]^2 0.5$$

$$= 39.3\ t/m^2$$

However, an allowable bearing capacity of 35 t/m^2 is recommended for design purposes.

The recommendation is based on the assumption that the same refusal stratum or a harder stratum extends for a large depth below the test level.

Conclusion and Recommendation:

1. The foundation shall be laid on the soft disintegrated rock and an allowable bearing capacity of 35 t/m^2 is recommended for design.
2. During the execution of the project, placing the footing on any weak layer or filled up soil, if encountered at any of the locations, is to be avoided.
3. The recommendation is based on the assumption that the same refusal stratum or a harder stratum extends for a large depth below the test level.

Dr. P. Senthil Kumar
(Test in-charge)

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Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

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