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Dr. R. Rudramoorthy
BE(Hons),ME,Ph.D
Principal

DEPARTMENT OF CIVIL ENGINEERING

Ref.: P/Soil/T&Con/2018/2009 Date.: 12.01.2018

REPORT ON RESULTS OF STANDARD PENETRATION TEST ON FOUNDATION SOIL

Client : M/S Sreevatsa Real Estates Pvt. Ltd.,
324, Mettupalayam Road,
Coimbatore - 641 043.

Reference : Your letter reference no: SREL/GEN/328/2017-18 dated 03.01.2018.

Date of Test : 11.01.2018

Location : Proposed construction site for multi-storeyed building at Global Village (S.F No:541/2A2A, 2A3A & 3, 527/1B2, 1C2 & 1D2 Chinnavedampatti Village), North Zone & Taluk, Coimbatore

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

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Client's representative at site : Er. Sivasankaran,
Sreevatsa Real Estates Pvt. Ltd., Coimbatore

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

Soil Profile and N- value:

Pit No.	Depth of pit	Depth of investigation	Soil Profile upto the depth of investigation	N - value
1 (Block No:1)	3.0m	3.2m	0.0-0.9m: Clay 0.9-2.7m: Kankar 2.7-3.0m: Soft disintegrated rock	More than 50
2 (Block No:5)	3.1m	3.9m	0.0-1.5m: Clay 1.5-3.1m: Kankar	More than 50
3 (Block No:4)	3.0m	3.0m	0.0-1.0m: Clay 1.0-2.7m: Kankar 2.7-2.9m: Soft disintegrated rock	More than 50
4 (Block No:3)	3.1m	3.1m	0.0-0.8m: Clay 0.8-2.8m: Kankar 2.8-2.9m: Soft disintegrated rock	More than 50
5 (Block No:2 - East)	3.2m	3.2m	0.0-0.9m: Clay 0.9-2.7m: Kankar 2.7-3.2m: Soft disintegrated rock	More than 50
6 (Block No:2 - West)	3.0m	3.0m	0.0-0.7m: Clay 0.7-2.6m: Kankar 2.6-3.0m: 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 25 mm is given by

$$q = 3.5(N-3)\left[\frac{B+0.3}{2B}\right]^2 R$$

where,

B: Maximum size of the footing (taken as 2.4m)
R: Water table correction factor (For the worst case, taken as 0.5)

$$\therefore q = 3.5(50-3)\left[\frac{2.4+0.3}{2x2.4}\right]^2 0.5$$

$$= 26.02\ t/m^2$$

However, an allowable bearing capacity of 26 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 scope of the soil investigation is to locate the depth where refusal stratum is encountered (N-value > 50)

2. The refusal stratum (soft disintegrated rock or kankar) is found at a depth ranging from 3.0m to 3.9m from the existing ground level.

3. An allowable bearing capacity of 26 t/m^2 is recommended for design at all locations; provided that the foundation should be placed at a depth of 3.2m for all Blocks, except Block No: 5 (northeast Block of the site), where as it should be at a depth of 3.9m.

4. 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.

5. 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)

Mr. T. Ramesh
(Test in-charge)

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