

10.00 FOUNDATION PARAMETERS

Tentative size of various type of footings has been assumed as under:

Continuous strip footing 3.0m wide

3.5m wide

Raft footings 21.0m x 25.0m

25.0m x 42.0m

9.02 The values of various parameters for at depth =3.0m from NGL (Taking the worst case i.e BH-1) used are as under:

a) From shear failure considerations:

$$C_u = 0.0 \text{ Kg/cm}^2$$

$$\phi = 31.0 \text{ (Degrees)}$$

$$\gamma = 1.56 \text{ g/cc}$$

$$W' = 1.0 \text{ (For Individual Footing)}$$

$$= 0.75 \text{ (For Raft footing)}$$

$$I_c = I_q = I_y = 1.0$$

b) From Settlement Considerations:

Refer Fig. 9 of Code IS: 8009 (Part1) – 1976.

Assuming the strata below 10.0m is same as strata above 10.0m