Questionnaire

a) **The building shall be designed for 2 floor provision considering Earth Quake Zone-III**

b) **SBC assumed shall be 50T/sq.m**

c) **The design shall be done for 3 alternate structural system & evaluate the costing.**
   1. **Beam Slab System**
   2. **Flat Slab System**
   3. **Steel Structure system**

d) **The loading considered shall be as follows.**

Loading Parameters

1. Vertical Loads

1.1 Dead Loads

Self Weights

Self weight of the structural members will be considered on the basis of the following criteria.

Density of reinforced concrete	25 kN/cu.m
Density of soil	21 kN/cu.m
Density of steel	80 kN/cu.m
Density of plain concrete	24 kN/cu.m
Density of finishes / Plaster	20 kN/cu.m
Density of Granite	28 kN/cu.m
Density of Cinder for filling	8 kN/cu.m
Density of Block work with Plaster	22 kN/cu.m
Density of Glass	28 kN/cu.m

Dead Loads

Floor Finishes	1.50 kN/sq. m
Partition considered is light weight	1.0 kN/sq.m
Suspended Services	0.85 kN/sq.m

200 thick Wall Loads

(Floor to floor is 3.75M (3.75-0.75)) :13.2 kN/ m

Terrace :3 kN/sq.m (inclusive of water proofing of 150mm thick average).

1.2 Imposed Loads

Restaurants, Shops,	4.00 kN/sq.m.
Super markets	6.00 kN/sq.m.
Corridors, Balconies	4.0 kN/sq.m
Staircases	4.0 kN/sq.m
Terrace	4.0 kN/sq.m
Lift Machine Room floor (Including Dynamic effect)	10.0 kN/sq.m

2 Lateral loads

2.1 Wind Load

Wind loads on Building

Wind loads will be calculated in accordance with IS 875: Part 3 corresponding to basic wind velocity of bangalore is 33 m/sec.