

Form 9

Data sheet no. 4

Job: (Description of Work)

STRUCTURAL ANALYSIS< DESIGN AND DETALING:

Structural Analysis and Design based on the adaptation of the load combinations as per codes provisions of IS 4562000 as given below:

- a) (D.L+L.L)x 105
- b) (D.L+E.Q/W)x1.5
- c) (D.L.-E.Q/W)x1.2
- d) (D.L+L.L+E.Q/W)x1.2
- e) (D.L+L.L-E.Q/W)x1.2
- f) Stability 0.9 (DL) + 1.5 (EL or WL)
- g) Stability 0.9 (DL) – 1.5 (EL or WL)

Watch points:

A) Cases F & G are primarily meant for checking whether any foundation of column is likely to get lifted up positive and negative bending moment at supports.

MATERIALS AND MEMBER SIZES ADOPTED:

Materials:

Concrete Grade M 20 [minimum]

Reinforcement Fe250 / Fe415 / other

Member Sizes:

Member sizes and design and details are as per IS 456 and 13920 for ductile detailing *.