Design of a masonry house

Dr. Irfan-ul-Hassan

Few Questions after finalizing Schemes

- ► Did you already decided about the slab panels?
- ▶ Is there any beam required to support the slab system?
- ▶ Did you provide depression in wash room areas ?
- ▶ Did you provide stair void properly?
- $\blacktriangleright \ \ \mbox{Did you superimpose upper floor plan on lower storey}\,?$
- ► Did you decide the beams required in lower storey due to loadings coming from FF?
- ▶ Did you check the support system of all slabs and beams?

▶ Did you decide about different types of lintels?

- lacksquare Is there any additional column required to support the floor system ?
- ▶ Did you see the floor levels ?
- $\blacktriangleright~$ Is there a uniform thickness in complete slab system?
- ▶ Did you run a parallel beam at FF roof level to reduce the load on GF beams.
- ► Are you sure about the supports of all beams are stable and finally transferring the load on the stable foundations?
- Did you see the suitability of size of the beam provided, whether a projected downward, concealed, or projected upward which one is suitable.

Few Important Points

- Edge supported 2-way slab should be resting on all sides of support (9" wall/beam)
- One way slab must be resting on two opposite sides or either a over-hanged or one way cantilever
- □ Beams and columns are to be provided at required points
- Depression required should be given
- □ Stair void provided as per requirements
- $\hfill \square$ Bottom and top steel should be detailed accurately
- Corner steel should be shown in reinforcement detailing
- ☐ Bundled bars for sky-light or due to partition walls in upper floor are provided.