INTRODUCTION
A building frame consists of number of bays and storey. A multi-storey, multi-paneled frame is a complicated statically intermediate structure. A design of R.C building of G+5 storey frame work is taken up. The building in plan (17.52*26.364) consists of columns built monolithically forming a network. The size of building is 17.52*26.364m. The number of columns are 15. It is residential complex.

The design is made using software on structural analysis design (staad-pro). The buildings subjected to both the vertical loads as well as horizontal loads. The vertical load consists of dead load of structural components such as beams, columns, slabs etc and live loads. The horizontal load consists of the wind forces thus building is designed for dead load, live load and wind load as per IS 875. The building is designed as two dimensional vertical frame and analyzed for the maximum and minimum bending moments and shear forces by trial and error methods as per IS456-2000. The help is taken by software available in institute and the computations of loads, moments and shear forces and obtained from this software.

METHODOLOGY:
Salient features of Building properties:
Utility of building: residential complex
No of stories: G+5
Shape of the building: 5 FLOORS
No of staircases: 5
No of flats: 12

LOADS CONSIDERED
Types of loads on an hypothetical building are as follows.
• Dead (gravity)
• Live (gravity)
• Wind (uplift on roof)

ABSTRACT
Structural planning and design is an art and science of designing with economy elegance and durable structure. The entire process of structural planning and designing is not only requires imagination and conceptual thinking but also sound knowledge of structural engineering besides knowledge of practical aspects such as relevant design codes and by-loss backed up by example experiences. The purpose of standards is to ensure and enhance the safety, keeping careful balance between economy and safety. In the present study G+5 building of 86’6” * 56’6” Area 4901’56”sqfeet at Kurnool, Kalluru, near chanamma circle, is designed (Slabs, Beams, Columns and Footings) using STADD PRO software. In order to design them, it is important to first obtain the plan of the particular building that is, positioning of the particular rooms (Drawing room, bed room, kitchen toilet etc.) such that they serve their respective purpose and also suiting to the requirement and comfort of the inhabitants. Thereby depending on the suitability; plan layout of beams and the position of columns are fixed.

KEYWORDS: Auto CAD and STAAD Pro
CONCLUSIONS

From the work carried out in Staad pro we can conclude that
1. Using STAAD.Pro the analysis of multi storey building has completed much quicker when compare with manual analysis (Kani’s method).

2. It is observed that the reinforcement percentage in the sections is more in the case of software design when compared to manual calculations.

3. Designing using Software’s like Staad reduces lot of time in design work.

REFERENCES:
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