Review on Design and Analysis of Multi-Storey Building by using Stadd-Pro

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Abstract: *The main aim of structural engineer is to design the structures for a safe technology in the computing field; the structural engineer can dare to tackle much more large and complex structure subjected to various type of loading condition. Structural planning and analysis is an art and science of designing with economy, elegance and sturdiness. Structural designing requires an in-depth structural analysis on which the planning is predicted, to compete within the ever competitive market, The use of software can save many-man hours and efforts in structural analysis and an effort was made in the present study to achieve this objective. Now a day large number of application software's are available in the civil engineering field. All these software's are developed as the basis of advanced. In these Research a review of the analysis and design of a multi-storey building with STAAD Pro is carried out. Planning is done by using AutoCAD and load calculations were done manually and then the structure was analysed using STAAD Pro. The dead load, imposed load and wind load with load combination are calculated and applied to the structure. Overall, the concepts and procedures of designing the essential components of a multistory building are described. STAAD Pro software also gives a detailed value of shear force, bending moment and torsion of each element of the structure which is within IS code limits.*

Keywords: Design, Analysis, building, Staad-Pro, Structural planning, multistorey building.