**CONSTRUCTION OF RESIDENTIAL BUILDING BY USING ETABS**

**ABSTRACT**

Structural Engineers are facing the challenge of striving for the most efficient and economical design with accuracy in solution while ensuring that the final design of a building must be serviceable for its intended function over its design life - time. This project presents (Parking floor +5) upper stories RCC framed building analyzed and designed under the lateral loading effect of wind and earthquake using ETABS(Extended Three Dimensional Analysis of Building system). ETABS is incorporated with all the major analysis engines that is static, dynamic, Linear and non-linear, etc., and this Software is used to analyze and design especially the buildings. Because of the facilities provided in this software at the modeling stage, the buildings can be modeled as per the arrangement of the members of the project in Practical, and this software considers the beams, columns as Line members; slabs, Ramps/staircases, walls are as area members. Taking the horizontal loading effects of Wind & Seismic forces; In the design of this project, I take dynamic loading along with the Static loading and Live loads as per IS Code; And almost all the members of the project can be analyzed and designed as per Indian code using this software, where ever require I design the members using excel sheets which are prepared by me in this phase.