



Comparison of Shear Walls in Response Spectrum Method by using ETABS-2013

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Abstract : Besides, food and clothing, shelter is a basic human need. India has been successful in meeting the food and clothing requirements of its vast population; however the problem of providing shelter of all is defying solutions. “While there has been an impressive growth in the total housing stock from 65 million in 1947 to 187.05 million in 2001, a large gap still exists between the demand and supply of housing units. The Working Group on Housing for the 9th five-year plan estimated the housing shortage in 2001 at 19.4 million units- 12.76 million in rural area and 6.64 million in urban area. The shortage of housing is acutely felt in urban areas –more so in the 35 Indian cities, which according to the 2001 census have a population of more than a million”. Hence in order to overcome this problem construction process should be quick, tall and effective to accommodate huge population in a given area. Hence, an attempt is taken to study the behaviour of a G+13, G+15 and G+18 multi storey building in which some storey’s are considered for commercial purpose and remaining storey’s are for residential purpose. This paper studies the comparison & seismic analysis of the multi-storey buildings with floating column and without floating column. Finally, analysis & results in the high rise building such as storey drifts, storey displacement, and Base shear were shown in this study. Design and Analysis was carried out by using Extended Three Dimensional Analysis of Building Systems (ETABS) Software.

Keyword: Shear wall, High-rise buildings, seismic analysis, E-TABS.

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