**Earthquake Analysis of Multi Storied Residential Building - A**
**Case Study**

**ABSTRACT**

Earthquake befell in multistoried building indicates that if the systems aren't properly designed and constructed with and adequate power it ends in the complete crumble of the structures. To make sure safety towards seismic forces of multi-storied building hence, there may be want to take a look at of seismic analysis to design earthquake resistance structures. In seismic analysis the reaction reduction was taken into consideration for 2 instances each Ordinary moment resisting body and Special second resisting frame. The foremost goal this paper is to observe the seismic analysis of shape for static and dynamic evaluation in regular moment resisting body and unique second resisting body. Equivalent static evaluation and response spectrum evaluation are the strategies utilized in structural seismic analysis. We considered the residential building of G+ 15 storied shape for the seismic evaluation and it is positioned in region II. The overall structure become analyzed by way of computer with using STAAD.PRO software. We located the reaction reduction of cases everyday second resisting body and unique moment resisting body values with deflection diagrams in static and dynamic evaluation. The unique moment of resisting body dependent is good in resisting the seismic masses.

Keywords – Equivalent static evaluation, response spectrum analysis, ordinary second resisting frame, unique second resisting frame, STAAD.PRO V8i.