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<i>Paper Title</i>	DETERMINATION OF SUITABLE LACTATION OF SHEAR WALL IN RCSTRUCTURE WITH REINTERANT CORNER SUBJECTED TO EQ FORCES
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<i>Abstract & Keyword</i>	Abstract The thesis is based on a comparative study of configuration of shear walls for buildings irregular in plan. With the increase in demand of high rise buildings, the concern for safety also increases. High Rise Buildings are vulnerable against lateral forces like wind load and seismic loads. To ensure safety against these factors, many tools are applied in the structure. Shear Wall is a vertical planer structural element which is used in structures to induce lateral stiffness. The effectiveness of shear wall is based on its location in building. Specially in building where there is inborn eccentricity, location of shear wall becomes very important. This gives birth to optimum location or optimum configuration of shear wall in building. In this thesis, we have studied various configuration of shear wall in a building with irregular plan (L shape). For the study, we have considered ten test models, out of which one model is not having shear wall. This model is called bare frame. From the bare frame model other nine test models with shear wall is compared in order to define the optimum location of shear wall for L shaped building. Dynamic Analysis is done for the comparative study of the models. We have used standard software package of CSI ETABS ver. 16.0.0 for the modeling and analysis of the structure. Under dynamic analysis, we have limited ourselves to Response Spectrum Analysis and Time History Analysis. Both of these analyses are done under elastic limit. For Response Spectrum Method, we have considered the graph for Seismic Zone V with medium soil for a damping ration of 5% and importance factor as ‘1’. The Response Spectrum Analysis is done as per IS 1893 (Part-1):2016 by using CSI ETABS ver. 16.0.0. For Time History Analysis, we have used the time history data of Array Recording Station, El Centro, USA. The data is under the software package. We have determined the optimum configuration of shear wall in ‘L’ shaped building, on various ground of comparison which is defined in the thesis. Key words: Equivalent static method, Framed structure, Lateral loads, Maximum story drift, Response spectrum method, Seismic force, Time history analysis.
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