

“Comparative Study of Multi-Storey RC Building Having Flat Slab with and without Shear Wall with Conventional Frame Structure Subjected To Earthquake.”

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ABSTRACT

In present era, there has been a considerable increase in the number of tall buildings. In construction industry a conventional RC building were commonly adopted for constructing residential, commercial and office building till recent. The use of flat slab system is very common in public buildings. The Structural efficiency of the flat slab construction is poor under earthquake loadings. It has low stiffness. It can be improved their stiffness by adding a supplemental lateral load resisting system in the form of shear wall. In the present work, a G+9 multistoried commercial building having flat slab with and without shear wall and has been analyzed. Comparative study of these structures are analyzed on the parameters like base period, base shear, storey drift and storey displacements. As compared to the conventional frame structure model and flat slab with shear wall model behavior is better than flat slab without shear wall model.

Keyword: Flat slab, Shear Wall, Base Period, Storey Drift, Storey Displacement, Storey Shear.

1. INTRODUCTION

India at present is fast growing country in economy this brings demands in increasing of infrastructure facilities along with the growth of population. In this modern industrial era we can see huge construction activities taking place everywhere, we may face a shortage of land. So construction of tall structures is only solution to overcome this problem. Reinforced concrete has been used for building construction since the middle of the 19th century, initially for some parts of buildings, and then for the entire building structure.

Conventional columns, beams and slab Framed Structure System has been used since many years, in most vulnerable parts of world and these structures has proven themselves as earthquake resistant structures.

In conventional framed structure the brick/block walls are not designed to carry any load except self-load. They are considered as panel walls to provide enclosure. But when it comes to earthquake forces these walls although not designed to carry earthquake shear act as energy dissipating devices and transfer the earthquake load upto some extent to column beam slab system. These walls if constructed in Reinforced concrete and designed to carry gravity as well as earthquake forces, are known as Shear Walls. These Walls are placed at suitable locations and can be used to improve efficiency of flat slab with columns structure in earthquake zones.

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