



Experimental Analysis of Earthquake Resistant Structures with Shear Wall

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Abstract : Constructions made of shear walls are high in strength ,they majorly resist the seismic force, wind forces and even can be built on soils of weak bases by adopting various ground improvement techniques². Not only the quickness in construction process but the strength parameters and effectiveness to bare horizontal loads are very high.

Shear walls generally used in high earth quake prone areas, as they are highly efficient in taking the loads. Not only the earth quake loads but also winds loads which are quite high in some zones can be taken by these shear walls efficiently and effectively.in this project the shear wall will be analysed. This study determines the solution for shear wall location in multi-storey building based on its both elastic and elasto -plastic behaviour. The earthquake load is to be calculated and applied to a multi-storeyed building. Model results will be calculated and analysed for the effective location of shear wall.

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