

Design of Multi-Story Office Building Utilizing R/C SMRF

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Abstract

The distinct behavior the Reinforced Concrete Special Moment Resisting Frame which surpasses other moment resisting frames in ductility is an interesting topic to research. The design group spent eight months in continuous research thriving towards a complete successful design project. The designed building is a reinforced concrete twenty-story office building having the Special Moment Resisting Frame on its parameter as a lateral-load resisting system. The design project includes research work, design and detail drawings. The design was done utilizing some software like ETABS and SAFE. Manual design calculations were done to double-check the software results.