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Comparitive Studies on Seismic Load and Wind Load for a Multistorey Building with Shear Wall

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Abstract : Tall buildings are prone to heavy damage due to lateral loads namely seismic and wind load .This damage causes a heavy loss of life .In order to improvise the standards of the building by introducing shear walls .A study was made using STAAD Pro V8i to study the deflection, Bending moment, Shear force caused due the Earthquake and wind load and on comparison with the buildings with shear wall subjected to same loading conditions. Indian Wind Code IS 875 (Part 3) 1987⁴ has been prepared by IIT Kanpur gives recommendations to obtain across wind response of tall buildings as per procedure. A 15 storey building considered to be located at zone III subjected to wind loads and seismic loads is analyzed with and without shear walls. Deflection study was made and the amount of deflection reduced when application of shear wall on two sides of a building was carried over.

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