**Analysis and Design of G+6 Building in Different Seismic Zones of India**

**ABSTRACT**

Designing a structure in such a way that reducing damage during an earthquake makes the structure quite uneconomical, as the earthquake might or might not occur in its life time and is a rare phenomenon. In this paper a G+6 existing RCC framed structure has been analysed and designed using STAAD.Pro V8i. The building is designed as per IS 1893(Part 1):2002 for earthquake forces in different seismic zones. The main objectives of the paper are to compare the variation of steel percentage, maximum shear force, maximum bending moment, and maximum deflection in different seismic zone. Variations are drastically higher from zone II to zone V. The steel percentage, maximum shear force, maximum bending moment, maximum deflection is increases from zone II to zone V.