

Earthquake-Resistant Building Design in the India

Sachin Sharma

B.Tech, CIVIL Engineering Student

Arya College of Engineering and Research Center, Kookas, Jaipur, Rajasthan

Abstract: *India is one of the most seismically active regions in the world, with approximately 60% of its landmass prone to moderate to severe earthquakes. High population density and rapid urbanization exacerbate the potential risks. This paper focuses on earthquake-resistant building design in India, reviewing regional seismic hazards, the evolution of Indian building codes, challenges in implementation, and specific methodologies for improving structural resilience. The research highlights case studies such as the Gujarat Earthquake of 2001 to underscore the importance of innovative and inclusive design practices.*

Keywords: Earthquake

