

Department : Civil

Year : 2016-2017

Group No: 12

Guided By

**PROF. FALGUNI
PATEL**

SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA

Project Title

COMPARATIVE STUDY OF DIFFERENT EARTHQUAKE RESISTING TECHNIQUES AND ACCELEROMETER

Abstract:

Earthquake is the shaking of the ground caused by the sudden breaking and shifting of large sections of Earth's rocky outer shell. Earthquakes are among the most powerful events on earth, and their results can be terrifying. Earthquakes in general does not kill people directly. Instead of many deaths and injuries result from the collapse of buildings, bridges, and other structures. We cannot prevent natural disasters from striking, but we can prevent or limit their impact by making buildings strong enough to resist their destructive forces. This can be achieved by earthquake resistant structures. In the case of earthquakes, it is possible to neutralize their harm by applying basic engineering and planning principles that are inexpensive. This research deals with the applying different time history in commercial software STAAD Pro. V8i. Comparison of displacement data with different time history. Accelerometer is used to measures the acceleration of anybody or structure. Accelerometer is used to determine the earthquake value and its impact on structure. This non-linear dynamic time history analysis is done in STAAD Pro. V8i.

Prepared By:

Sr. No.	Student Name	Enrollment No
1	DEEP S PATEL	130780106021
2	PALAK G PATEL	130780106040
3	MEGHA V PATEL	130780106038

