

Department : Civil

Year : 2012-2013

Group No: 9

Guided By

**PROF. Z.R.CHHAYA/
MS. KINJAL R.
PATEL**

SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA

Project Title

**DESIGN OF MULTISTORIED RESIDENTIAL BUILDING USING
STAAD.PRO PACKAGE ANALYZED FOR EARTHQUAKE FORCES
WITH DUCTILE DETAILING AS PER IS: 13920.**

Abstract:

It is very essential for a structural engineer to have accurate and quick design of important structures like multi-storeyed buildings, bridges, dams, schools, Shopping Malls etc. It is possible with computer aided design only. There are some software's available in the market which give speedy output. STAAD.Pro is one of the good software. In this project an attempt is made to analyze and design a G+5 storied residential building against earthquake forces. STAAD.Pro is used to model the framing, seismic analysis and design of the building. Project comprises the work done in the software in order to design the building. Introduction and application of the software is considered separately in the project. For earthquake forces seismic static analysis is carried out. Moreover ductile detailing preferred for earthquake prone areas is chosen for drafting from the design results of STAAD.Pro. AutoCAD program is used for drawing the various structural details.

Prepared By:

Sr. No.	Student Name	Enrollment No
1	PATEL BRIJESH Y.	90780106019
2	PATEL MAYANK A.	90780106029
3	PATEL PRASHANT N.	90780106039

