

Non-Linear Pushover Analysis Of RCC Framed Structure By Providing Fluid Viscous Dampers At Different Locations

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ABSTRACT

The increasing need of shelter in urban cities due to overpopulated spaces and land inadequacy people are forced to keep space and their needs strictly limited. High-rise buildings are the best solution for providing people spaces for living and to work on. In this age of urban development and rapid modernization the need of high-rise structures is rapidly increasing. As structures have become higher, structural engineering has become more difficult to achieve appropriate stability criteria. In tall buildings, stiffness is the key to sustainability. Fluid Viscous Dampers (FVD) are one of the efficient solutions for tall structures. These are hydraulic devices that, when stroked, dissipate the energy placed on a structure by seismic events. The viscous dampers convert the kinetic energy of the structural movement into heat and then dissipate that energy into the air, thereby obeying the laws of physics through the conservation of energy. To determine effectiveness of FVDs as well as determine best location for FVDs in high-rise buildings subjected to seismic loads, the current research is being carried out.

In this study twelve (12) RCC framed structures of 15 storeys of which four (4) are square shaped in plan, four (4) are rectangle shaped in plan with sides of ratio 1.5:1 and the other four (4) are rectangle shaped in plan with sides of ratio 2:1. These three (3) different shaped buildings considered are having approximately same plan area and damper positions. A floor-to-floor height 3m is taken. The buildings are located in Zone III. By using ETABS 2017 software, which helps to analyse and design the models, the analysis method used for this study is the Push Over analysis. This research work presents the results of an investigation on different parameters like Base shear, Modal mass participation, Time period, Storey Drift, Storey Shear and Storey Stiffness.

Keywords: Dynamic analysis, non-linear static analysis, pushover analysis, fluid viscous dampers.

INTRODUCTION

1.1 General

An earthquake is considered to be one of the most destructive natural hazards that causes great loss to life and livelihood. It is the shaking of the earth surface that is violent enough to cause major damage and kill thousands of people. They are caused due to sudden release of energy from earth's crust resulting due to actions of tectonic plates. The energy released takes the form of seismic waves. Earthquakes are the most unpredictable natural disasters. The huge amount of energy released during an earthquake can do high damage or worst case destroys major structures. In this age of high-rise constructions damage from an earthquake to building/structure poorly designed to resist earthquake force may result in greater loss of lives and infrastructure. India is considered in the list of most disaster-prone countries in the world. From the past experiences of strong earthquakes, it is proved that initial conceptual design of a building is extremely important for the positive response of a building during an earthquake. Structure cannot withstand the large earthquakes, but one can develop the structure, there are different irregularities in the structure. To minimize the damage of the structure, dampers may be provided at appropriate places. Hence it is very essential to identify the behaviour of buildings during an earthquake.

1.2 Objective of the Study

The objectives of this study are described in the points below..

1. To evaluate the response of structures subjected to Seismic loads and to assess its behaviour for Fluid Viscous Dampers.
2. Comparing the characteristics on structures without and with dampers in terms of base shear, time period, storey drift, storey shear, storey stiffness and displacement.
3. To find the optimum position of dampers for a high-rise structure under seismic loads.

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