PUSHOVER ANALYSIS OF A MULTI-STOREYED BUILDING

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Abstract- The promise of performance based seismic engineering (PBSE) is to produce structures with predictable seismic performance. Each building designed by this process is virtually unique. Therefore, up to now PBSE has not been an economically feasible alternative to conventional prescriptive code design practices. The poor performance and high level of structural damage in building structures during the frequent earthquakes increased the need to the determination and evaluation of the damages in the building type of structures, so much more than ever before. In order to prevent such collapse mechanisms in the building structures, nonlinear analysis must be determined accurately. To evaluate the performance of framed buildings under future expected earthquakes, a nonlinear static pushover analysis has been conducted. The load–deformation curve is obtained from SAP2000. Firstly, a multi-storeyed building (G+4) is analyzed in STAAD.Pro. The calculation of design seismic force by static analysis method has been carried out and lateral load distribution with height is shown. The same building is then modeled in SAP platform to carry out pushover analysis. The Capacity Spectrum, Demand Spectrum and Performance point of the building was found in both X and Y direction using the analysis carried out in SAP 2000 (v14). From the performance point it was found that the base shear carried by the building is well above the design base shear. Finally, the maximum displacement was found to be less than 1% which indicates the chance of crossing the elastic state for the building is very less.

Keywords- PBSE, Pushover analysis, Nonlinear Static analysis.

I. INTRODUCTION

One of the emerging fields in seismic design of structures is the Performance Based Design. The promise of performance based seismic engineering (PBSE) is to produce structures with predictable seismic performance. In coming few years we can say that performance based design will become the standard method of delivering earthquake resistant designs. . Seismic design is slowly transforming from a stage where a linear elastic analysis for a structure was sufficient for both its elastic and ductile design, to a stage where especially dedicated non-linear procedure is to be done, which finally influences the seismic design as a whole. Seismic hazard and damage state are the two essential parts of a performance

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Enjoying the Tune of Phrase: An Emotional Symphony within **Pushover Analysis Of A Multi Storeyed Building**

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