VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELGAUM - 590018

KARNATAKA

PUSHOVER ANALYSIS OF RC BUILDING USING SAP2000

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A project report submitted in partial fulfillment of the requirement for the degree of

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In

CIVIL

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ABSTRACT

The Buildings, which appeared to be strong enough may crumble like houses of cards during earthquake and deficiencies may be exposed. Experience gain from the recent earthquake of Bhuj, 2001 demonstrates that most of the buildings collapsed were found deficient to meet out the requirements of the present day codes. In the last decade, four devastating earthquakes of world have occurred in India. It has raised the questions about the adequacy of framed structures to resist strong motions .since many buildings suffered great damage or collapsed. To evaluate the performance of framed buildings under static monotonically increasing loads, a non-linear static pushover analysis has been carried out using SAP2000 with the help of FEMA 356. To achieve this objective, G+3 building was analyzed, the hinge properties are taken as per the guidelines of FEMA356 and the performance of the building is evaluated.