RETROFITTING OF LOW STRENGTH MASONRY BULDING BY SPLINT AND BANDAGE METHOD AND PERFORMANCE EVALUATION

***Abstract*—** the fundamental Objective of this study is to compare the seismic performance of the unreinforced masonry building with retrofitted building using splint and bandage method as it is neither practical nor feasible to demolish all the existing buildings and construct new to meet seismic safety as cost, importance and vulnerability of structure major role. This studies focus on the splint and Bandage method of retrofitting, which decrease the vulnerability of structure in major failure mode (out of plane failure and in-plane failure mode). With the application of splint and bandage on the building, the performance of building was improved. The base shear and displacement of the structure was reduce whereas moment resisting capacity and shear strength was increased.

Keywords— Splint and bandage, Unreinforced masonry, Retrofit, Performance level