

MANAGING EARTHQUAKE DISASTERS THROUGH ARCHITECTURE AND PLANNING

SESSION 5

Addressing Earthquake Disasters through planning, design, construction and maintenance of built form

The population in metro and mega cities is increasing daily, as migration from rural to urban areas is taking place continuously. With the increase in population, the demand for safe homes and well-developed urban environment is a need of time.

With the ever-increasing concrete jungles in the city, the safety of structures with respect to earthquakes and other natural disasters is a mandatory thing to be looked upon. But sadly, our building Bylaws are lacking in having the adequate knowledge and codes in this field.

Research is needed in many aspects of designing like the open setback spaces in accordance with an earthquake or the behaviour of non-structural elements during the time of an earthquake etc.

Every site is different with particular type of soil, which best supports a particular type of structure. Every city plan is different thus, needs micro zoning with respect

to elements that can trigger the vulnerability of the built environment. Disaster resistant buildings can save lives and financial losses, and thus should be considered by the Responsible bodies, citizens and the architects.