

PI Name: Ajay Chourasia

Project Title: Method for Preparing Earthquake Risk Scenarios in States and Uts of India

Client: M/s National Disaster Management Authority (NDMA) Ministry of Home Affairs,
Government of India, New Delhi

Objective:

1. Review the existing literature and global best practices for earthquake hazard, exposure, vulnerability, and risk assessment methodologies. submit a review report- 1st month.
2. Collecting informantion on building bye-laws, exposure of buildings from the current database- 1st month
3. Field visits for collecting exposure data and engineering information of Masonry and RC buildings from the study area in Chandigarh and Guwahati cities - 1st month
4. Performing nonlinear analyses of building models to obtain the fragility Curves - 2nd to 5th month
5. Development of methodology for assessment of earthquake hazard - 1st to 6th month
6. Development of methodology for assessment of earthquake exposure - 1st to 6th month
7. Development of methodology for assessment of earthquake vulnerability including the fragility curves for masonry and RC buildings - 1st to 6th month
8. Development of methodology for assessment of earthquake Risk - 1st to 6th month
9. Deliberation with NDMA and the UT/ State Government - 6th Month
10. Report Compilation and Submission- 6th month.