Seismic Performance Evaluation of Reinforced Concrete Building Structures

- **MEMBERS**: Evaluation of Axial Load Carrying Capacity of Deteriorated RC Columns
- **SUB-ASSEMBLAGE**: Simulation of In-plane Behavior of Masonry Wall Infilled RC Frames
- **OVERALL STRUCTURE**: Response Evaluation Method of Buildings due to Waterborne Debris Impact Load
- **INTERNATIONAL COOPERATION**: Project for Technical Development to Upgrade Structural Integrity of Buildings in Densely Populated Urban Areas and its Strategic Implementation towards Resilient Cities

Axial Load Capacity Evaluation by Compressive Test

3D Data of a Corroded Rebar and Distribution of Sectional Area

The proposed macro-modeling approach could capture the seismic behavior of RC frame with masonry infill wall.

Collision Test and Collapse of Reinforced Concrete Frame

Axial load capacity deteriorates due to the rebar corrosion, and the capacity was estimated well based on rebar sectional area that are measured in detail.

Test on RC column@BUET

Science and Technology Research Partnership for Sustainable Development (SATREPS)
Project for Technical Development to Upgrade Structural Integrity of Buildings in Densely Populated Urban Areas and its Strategic Implementation towards Resilient Cities

Joint Research Group

Japan
- IIS, The Univ. of Tokyo
- Tohoku Univ.
- Osaka Univ. etc.

Bangladeshi Representative
- Housing and Building Research Institute
- Public Works Depart.
- Univ. of Asia Pacific etc.

Technologies for enhancing structural resilience of buildings in Dhaka and their effective implementation schemes are proposed.