



# Joint Workshop

Indian Institute of Technology Bombay and Tohoku University



## India – Japan Joint Research

### on policy-making support framework for disaster risk reduction and sustainable urban development

#### Session 1: Seismic risk aspect (13:30 – 14:30)

- **Seismic Resilience of Urban Buildings in India**

Prof. Ravi Sinha (Department of Civil Engineering, IIT Bombay)

- **Earthquake ground motion modeling in Tohoku region based on strong motion observation**

Prof. Susumu Ohno (International Research Institute of Disaster Science, Tohoku University)

- **Seismic Risk Reduction using Base-Isolated Buildings**

Prof. Manish Kumar (Department of Civil Engineering, IIT Bombay)



#### Session 2: Flood risk aspect (14:40 – 15:40)

- **Recent Developments in Urban Flood Resilience Measures in India**

Prof. Kapil Gupta (Department of Civil Engineering, IIT Bombay)

- **Understanding Mumbai's flood hazard through satellite data and hydrological models**

Dr. Amalia Nafisah Rahmani Irawan (Green Goals Initiative, Tohoku University)

- **Planning Large Water Infrastructure under Deep Uncertainties**

Prof. Riddhi Singh (Civil Engineering Department, IIT Bombay)



#### Session 3: Approaches for the joint research (15:50 – 17:30)

- **Concepts for “Science-based policy-making support framework for DRR and sustainable urban development”**

Prof. Kozo Nagami (Green Goals Initiative and Graduate School of Environmental Studies, Tohoku University)

- **Risk Mapping using IPCC AR 5 framework (online)**

Prof. Trupti Mishra (Shailesh J Mehta School of Management, IIT Bombay)

- **Sparse modeling based discrete spatial heterogeneity analysis**

Prof. Ryo Inoue (Graduate School of Information Sciences, Tohoku University)

- **Impact of recurrent floods on the livelihoods of vulnerable people:**

- Initial Findings from a Preliminary Community Survey in the Philippines**

Prof. Akiyuki Kawasaki (Institute for Future Initiatives and Dept. Civil Eng., Tokyo University)

- **Communication science for disaster countermeasures promotion to individuals**

Prof. Yo Fukushima (International Research Institute of Disaster Science, Tohoku University)



#### Venue & Time

January 17, 2025 (13:30 p.m. – 17:30 p.m.)

**Main conference room, 3rd floor, GSES main building AOBAYAMA CAMPUS TOHOKU**