

IRIDeS faculty member visited India and delivered a special lecture at the CSIR-Central Building Research Institute (2025/2/25-26)

Theme: GP-RSS, CSIR-CBRI, Irrigation system Venue: CSIR-CBRI (Roorkee, Uttarakhand, India)

Prof. Osamu Murao of International Strategy for Disaster Mitigation Lab visited India from February 25th to 26th, 2025, as part of the International Joint Graduate Program in Resilience and Safety Studies (GP-RSS). During his stay, he visited the CSIR-Central Building Research Institute (CSIR-CBRI) in Roorkee, Uttarakhand. Tohoku University was certified as a Designated National University Corporation in 2017. It has positioned "Disaster Science & Safety Studies" as one of the worlds leading research clusters. GP-RSS is operated as part of an initiative that promotes international education and research in collaboration with prominent overseas universities. This visit aimed to foster mutual understanding and sustain and develop ongoing relationships between the institutions.

Prof. Murao first met with the institutes director, Prof. Ramancharla Pradeep Kumar, to discuss future research collaboration and DRR strategies. Following this meeting, he conducted an inspection of the Upper Ganges Canal and the Solani Aqueduct. Constructed in the mid-19th century, the Upper Ganges Canal plays a crucial role in regional agriculture as an irrigation system utilizing water from the Ganges River. The Solani Aqueduct, which allows the canal to cross the Solani River, is a historic structure that has made significant contributions to the modern civil engineering of India. During the site visit, Prof. Murao was briefed on the construction techniques of the time and the current management system, providing valuable insights into the maintenance and disaster resilience challenges of historical infrastructure.

On February 25, Prof. Murao delivered a special lecture at CSIR-CBRI titled "Reconsideration on Urbanization in the Tokyo Metropolitan Area Since the 1923 Great Kanto Earthquake from the Perspective of Exposure." His lecture addressed urban vulnerabilities following the Great Kanto Earthquake and discussed seismic and disaster mitigation measures in anticipation of potential future earthquakes, such as a Tokyo inland earthquake or a Nankai Trough earthquake.

Through this visit, stronger collaborative ties were established with research institutions in India, exploring potential avenues for joint research in DRR. Efforts will be made to further strengthen the partnership with CBRI to advance academic initiatives in disaster-resilient urban development, seismic-resistant architectural technologies, and post-disaster urban reconstruction. These endeavors aim to contribute to the progress of disaster science.



Photo with the Director of CSIR-CBRI



Photo with the participants of the lecture

Text and photos: Osamu Murao (continues to the next page)





Upper Ganges Canal



Summary of the Special Lecture