

Dr. Himanshu Mittal completed his **M.Tech.** Degree in Applied Geophysics (2000) from Kurukshetra University, Kurukshetra, Haryana. He obtained **Ph.D.** in earthquake engineering from the Department of Earthquake Engineering, Indian Institute of Technology (IIT), Roorkee, India in 2011. His research expertise includes Strong motion Seismology (data collection and processing), site effects, and earthquake early warning (EEW).

During his Ph. D., for the first time, he estimated seismic hazards for the Delhi region using actual instrumentation records. In research work, transfer functions at 55 sites from 13 earthquakes were obtained using the standard spectral ratio (SSR) technique. Finally, the spectral acceleration maps at four different natural periods were produced for four different scenario earthquakes. The spectral acceleration maps are strongly influenced by the shallow geological and soil conditions as indicated in the contour maps.

Dr. Himanshu Mittal has 16 years of research experience and 4 years of industry experience. Presently, he is working as **Scientist-E** at National Centre for Seismology (NCS), Ministry of Earth Sciences (MoES). Before joining MoES, he worked as a Research Scientist at National Taiwan University (June 2015-July 2018, August 2019- December 2020) and National Cheng Kung University (August 2018-July 2019), Taiwan. He was responsible for various studies related to EEW (a life-saving tool) as well as strong-motion studies and participated actively in reporting the functioning of EEW in Taiwan during the Meinong earthquake of February 2016 and the Hualien earthquake of February 2018. In addition, he tested the functionality of an EEW system, in India using the recorded earthquake data from Taiwan. High lead times are obtained for the plainer regions including thickly populated regions of Gangetic plains, such as the Delhi-National Capital Region (NCR) according to the distance from the epicenter, which is the main target of the EEW system. He has published more than 45 research papers in various SCI journals.

Being at IIT Roorkee (2004-2015), Dr. Himanshu Mittal was one of the key persons to look after the strong instrumentation network consisting of 300 instruments installed in Seismic Zone IV and V along with some of the thickly populated areas of zone III in the vicinity of Indian Himalayan belt. The data obtained from this network was disseminated freely to the users for research work. He worked closely for the installation of the first EEW in the Himalayas by IIT Roorkee. He has explored closely all the options related to the installation, maintenance, and connectivity of instruments.

Presently, at NCS, he is involved in various activities related to the National Seismological Network of NCS and the EEW system to be set up by the NCS.