

Shri J. L. Gautam

Shri J. L. Gautam is presently working as Scientist-E in the National Center for Seismology, Ministry of Earth Sciences. He obtained his M.Sc.(Mathematics) from Chaudhary Charan Singh University, Meerut (previously known as Meerut University).

He is working as operational in-charge of the Central Receiving Station (CRS) of National Centre for Seismology and responsible for round the clock monitoring of the earthquake activity in India and neighbourhood on near real time basis and supervising the work related to dissemination of the epicentral parameters of the significant earthquakes occurred in India & neighbourhood to various dignitaries, Govt. officials, disaster management authorities and Press etc. through SMS, FAX, Email and updating these parameters on IMD website in least possible time.

He is also working as in-charge of the Bulletin unit of National Centre for Seismology with the responsibility of final scrutiny of hypo central parameters of earthquakes through seismic analysis software using phase and digital waveform data received from National Seismological Network & other observatories and sending the monthly seismological bulletins to International Seismological Centre (ISC), U.K. for inclusion in the international bulletin. International Seismological Centre has appreciated for always timely contribution of seismic bulletin data where seismic arrivals from many stations are included on a regular basis.

He has been actively involved in the commissioning of the CRS of Real Time Seismic Monitoring Network System established by IMD as part of the Tsunami Early Warning System and worked closely for developing the improved versions of the Fax, Email, SMS and IVR formats used by the earthquake dissemination system.

He has identified a need to incorporate more surrounding stations data and configured more than 100 GSN stations of Integrated Research Institutions for Seismology (IRIS), 20 stations of North-East India Telemetry network, 10 stations of NGRI, Hyderabad and 10 stations of WIHG, Dehradun for online receipt of waveform data to enhance the capabilities of Real Time Seismic Monitoring Network (RTSMN) system for better monitoring of the regional earthquake activity. Due to which, the real time seismic monitoring facilities established in recent past have not only improved the detection & location capabilities of earthquakes but also the information dissemination to the various user agencies.

Under the supervision of Shri Gautam, an application software to disseminate earthquake information through bulk SMS was also developed and services for bulk SMS are being utilized, which has minimized the time taken for disseminating the basic earthquake information estimated by Real Time Seismic Monitoring Network system through bulk SMS.

He has also prepared Standard Operating Procedures (SOP) for Seismological Operations for timely dissemination of earthquake information, to the concerned state and central Government agencies, which plays a very important role in dealing with the post-disaster relief and rehabilitation related matters leading to mitigation of the losses .

Shri Gautam has published about sixteen research and review papers in International and National peer reviewed journals in the field of seismology. He has also presented many papers in National conferences/workshops and also participated in the various micro-earthquake surveys for aftershock studies & contributed in the preparation of technical reports of various significant earthquake events occurred in India & around; like, Latur Earthquake (1993), Jabalpur Earthquake (1997), Chamoli Earthquake (1999), Bhuj Earthquake (2001) & Sumatra Earthquake (2004).

Shri J. L. Gautam is awarded Certificate of Merit for his outstanding contribution in the field of Geo Sciences.