

Estimation of Seismicity Parameters for India

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INTRODUCTION

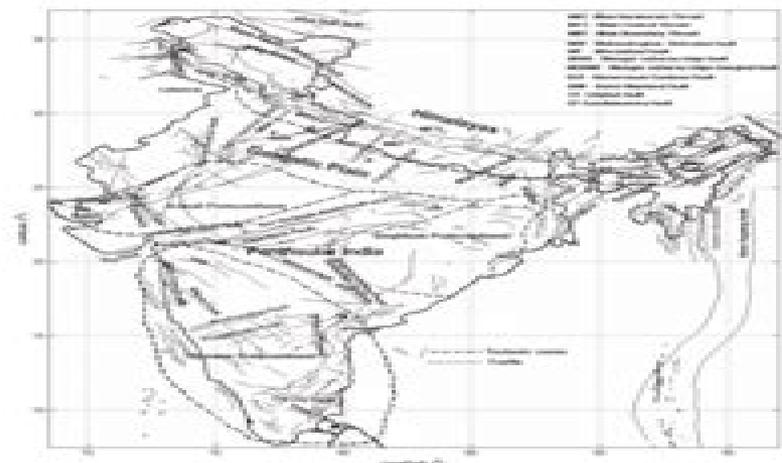
India has long been affected by damaging earthquakes. The recent Khillari (30 September 1993), Jabalpur (22 May 1997), Chamoli (29 March 1999), and Bhuj (26 January 2001) earthquakes have increased awareness of the need for earthquake disaster mitigation in India. The Khillari, Jabalpur, and Bhuj earthquakes, which caused severe damage to life and property, occurred in peninsular India, which is traditionally considered free from earthquakes. Thus, no part of India is free from seismic hazard.

The approach of seismic hazard estimation in India has been to follow the code IS-1893 (2002) brought out by the Bureau of Indian Standards. The code divides this vast country of some three million square meters into four zones. The hazard level is specified in terms of a standard response spectrum shape scaled by the zone factor, which is the expected peak ground acceleration (PGA) value. This PGA value is fixed as 0.1g (Zone II), 0.16 g (Zone III), 0.24 g (Zone IV), and 0.36 g (Zone V). These values have been fixed based on the observed damage patterns of past earthquakes. As is well documented, the Indian subcontinent suffers from interplate as well as intraplate earthquakes. The geological disposition of the faults and the seismogenicity of the southern part of India is much different from that in the Gangaic plain and the Himalayan region (Figure 1). The Geological Survey of India (GSI 2000) brought out a detailed *Seismotectonic Atlas of India*, which indicates that at any point 20–25 faults could be contributing to ground motion. Thus, it would be preferable to assess the future hazard at a city or a project site in a better fashion than just taking the PGA values of IS-1893. Moreover, the code does not specify the confidence levels associated with the four zonal values (Raghukanth and Iyengar 2006). The spatial and temporal uncertainty of seismic sources has been ignored in this zonal map.

Because the engineering design of structures has to ensure the future safety of such structures and their occupants, design values must be based on expected future ground motions and not on a few past observations. The uncertainty of the seismic phenomenon cannot be overlooked in arriving at the design basis spectrum. Sophisticated hazard analysis methods have been developed in the past four decades that account for the line or areal nature of sources near a construction site and also for variation about the mean of the response spectrum. This leads to probabilistic seismic hazard analysis (PSHA) and uni-

form hazard response spectrum (UHRS) methods that have gained importance in addressing the spatial variability in the seismic hazard of important cities in seismically active regions (Cornell 1968). PSHA that addresses engineering safety issues with quantifiable risk levels has become the norm, even for ordinary buildings, in many countries in the form of probabilistic seismic hazard maps (IBC 2003, USNRC 1997).

The three basic inputs required in PSHA are the earthquake recurrence relationships, knowledge of the tectonic features with which the earthquakes could be associated, and ground motion models. The location of major active faults, folds, shear zones, and lineaments in India are broadly known (GSI 2000; Gupta 2006). Ground-motion models for various tectonic regions of India are also available (Sharma 1998; Iyengar and Raghukanth 2004; Raghukanth and Iyengar 2007; Raghukanth and Somala 2009). Kaila *et al.* (1972) divided India into a $2^{\circ} \times 2^{\circ}$ grid and estimated the recurrence relations for the whole country by utilizing 14 years of seismicity data from 1954 through 1967 with magnitudes greater than 4. The derived relations provided a preliminary understanding of the seismicity, but the sparse database, and adopting this



▲ Figure 1. Seismotectonic map of India.

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