

**GOVERNMENT OF INDIA  
EARTH SCIENCES  
LOK SABHA**

UNSTARRED QUESTION NO:398  
ANSWERED ON:10.11.2010  
REAL TIME SEISMIC MONITORING NETWORK  
Chavan Shri Harischandra Deoram

**Will the Minister of EARTH SCIENCES be pleased to state:**

- (a) whether Indian Meteorological Department proposes to set up Real Time Seismic Monitoring Network in the country;
- (b) if so, the details thereof, location-wise alongwith the salient features of the said system;
- (c) the details of the estimated expenditure to be incurred in setting up of such network; and
- (d) the time by which such stations will start functioning in the country?

**Answer**

THE MINISTER OF STATE (INDEPENDENT CHARGE) MINISTRY OF SCIENCE AND TECHNOLOGY, MINISTRY OF EARTH SCIENCES, MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE, MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND MINISTER OF STATE IN THE MINISTRY OF PARLIAMENTARY AFFAIRS(SHRI PRITHVIRAJ CHAVAN)

(a) Yes Madam, The Real Time Seismic Monitoring Network (RTSMN) has already been made fully functional.

(b) The RTSMN system consists of 17 broadband seismic field stations located at Dharmasala, Shimla, Dehradun, Bhuj, Bhopal, Bokaro, Shillong, Pune, Hyderabad, Vishakhapatnam, Goa, Chennai, Minicoy, Thiruvananthapuram, Diglipur, Port Blair and Campbell Bay. The data from the field stations is transmitted in real time through VSAT based communication systems to the two Central Receiving Stations (CRS) located at India Meteorological Department (IMD), New Delhi and Indian National Centre for Ocean Information Services (INCOIS), Hyderabad for rapid estimation of earthquake source parameters.

The RTSMN system is capable of providing information on earthquakes (Origin time, Latitude, Longitude, depth and magnitude of earthquake), in shortest possible time (less than 15 minutes), capable of generating tsunamis that are likely to affect the Indian coasts. The RTSMN system also receives data from global seismological stations in real time for providing better azimuthal coverage and better estimation of earthquake source parameters. The earthquake information is disseminated to various user agencies and decision making authorities through multiple modes of communication such as SMS, FAX, e-mail and is also uploaded on IMD's website.

(c) The Real Time Seismic Monitoring Network was established at a total cost of Rs.11.19 crores.

(d) Does not arise.