

**GOVERNMENT OF INDIA
EARTH SCIENCES
LOK SABHA**

UNSTARRED QUESTION NO:1790

ANSWERED ON:26.07.2017

Earthquakes

Ram Shri Janak; Ram Shri Vishnu Dayal

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) the details of the earthquakes reported in the country during the last two years and the current year;
- (b) the details of the loss of life and property due to these earthquakes;
- (c) whether the Council of Scientific and Industrial Research has developed an earthquake warning system and if so, the details thereof;
- (d) whether this warning system has been set in various cities of the country; and
- (e) if so, the details thereof?

Answer

THE MINISTER OF STATE FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND MINISTRY OF EARTH SCIENCES
(SHRI Y. S. CHOWDARY)

(a) Details of significant earthquakes took place in the country (covering the area bounded by 6°-38°N Latitude and 68°-98°E Longitude) by National Seismological Network, National Center for Seismology, MoES during the last two year 2015, 2016 and current year up to July 2017 are furnished in Annexure-I.

(b) During last two years, Bay of Bengal (275 km South-East of Paradip), Nepal, Afghanistan, Tajikistan, Manipur, Tripura and Burma earthquake and its aftershocks caused loss of life and property in Indian territory also. 115 deaths have been reported (Bihar-79; Uttar Pradesh -19; West Bengal-3; Rajasthan-1; Jammu & Kashmir-4 and Manipur-8; Tripura-1) and about 13000 houses were reported damaged.

(c) The constituent laboratory of Council of Scientific & Industrial Research (CSIR) namely, CSIR-Central Scientific Instruments Organisation (CSIO), Chandigarh has developed an earthquake warning system and it has been set up only at Delhi Metro Rail Corporation, New Delhi.

(d-e) Yes, Madam. An Earthquake Warning System (EqWS) developed by CSIR-Central Scientific Instruments Organisation (CSIR-CSIO), Chandigarh consisting of five seismic sensing nodes at different Metro system locations at .Mundka, Botanical Garden, Huda City Centre, Metro Bhawan and Faridabad has been commissioned since October 2015. It has been functional and alerted recent substantial earthquakes via triggering of the majority of nodes on April 10, 2016, September 9, 2016 and February 6, 2017.