

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
LOK SABHA
UNSTARRED QUESTION No. 2577
TO BE ANSWERED ON MARCH 06, 2020**

EARTHQUAKE PRONE ZONES

2577. SHRI RAVNEET SINGH BITTU:

SHRI DILIP GHOSH:

SHRI FERROZ VARUN GANDHI:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether the Government has put in place adequate mitigation measures to reduce the impact of high intensity earthquakes and if so, the details thereof;**
- (b) whether the Government has done a seismic mapping of all the States in the country and if so, the name of cities that fall under the high seismic zones of IV and V, State/UT-wise;**
- (c) whether the India Meteorological Department has identified and mapped the earthquake prone zones in West Bengal, if so, the details thereof; and**
- (d) the probable reasons for bringing an area into such earthquake prone zones in West Bengal?**

ANSWER

**MINISTER FOR SCIENCE AND TECHNOLOGY AND
MINISTRY OF EARTH SCIENCES
(DR. HARSH VARDHAN)**

- (a) Yes Sir. National Centre for Seismology (NCS) maintains a country wide seismic network of 115 field stations for monitoring earthquake activity in India and its adjoining region. The centre disseminates earthquake parameters to all disaster management authorities within 5-10 minutes after occurrence of event. Also, a detailed hazard assessment in the form of Microzonation study has been taken up and maps for Delhi, Kolkata, Sikkim, Guwahati, Bengaluru, Jabalpur etc., has been prepared. In addition, National Disaster Management Authority (NDMA) and State Governments have taken up specific programmes to create awareness among the general-public through mock drill etc.**
- (b) The Bureau of Indian Standards (BIS): based on past earthquakes and soil characteristics, publish the seismic zoning map of India. According to this map, the country has been grouped into four seismic zones i.e. Zone-II, III, IV and V. Zone V is considered to be the most seismically active, while Zone II is the least. The Jharkhand State comes under Zone II, III and IV; with majority of land area falling under Zone II and III.**

The important cities that fall under the high seismic Zones of IV and V, State/UT-wise are given in Table 1.

- (c) West Bengal comes under Zone II, III and IV on the Seismic zoning map of India; with majority of land area falling under Zone II and III.**
- (d) The areas have been classified based on the past earthquakes and local site properties.**

Table-1		
Town	State/UT	Zone
Almora	Uttrakhand	IV
Ambala	Haryana	IV
Amritsar	Punjab	IV
Baharich	Utter Pradesh	IV
Barauni	Bihar	IV
Bhuj	Gujarat	V
Bulandshahr	Utter Pradesh	IV
Chandigarh	Chandigarh	IV
Darbhanga	Bihar	V
Darjeeling	West Bengal	IV
Dehradun	Uttrakhand	IV
Delhi	Delhi	IV
Gangtok	Sikkim	IV
Guwahati	Assam	V
Gorakhpur	Utter Pradesh	IV
Imphal	Manipur	V
Jorhat	Assam	V
Kohima	Nagaland	V
Ludhiyana	Punjab	IV
Mandi	Himanchal Pradesh	V
Monghyr	Bihar	IV
Moradabad	Utter Pradesh	IV
Nainital	Uttrakhand	IV
Patna	Bihar	IV
Pilibhit	Utter Pradesh	IV
Roorkee	Uttrakhand	IV
Sadiya	Assam	V
Simla	Himanchal Pradesh	IV
Srinagar	Jammu & Kashmir	V
Tezpur	Assam	V