

GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
LOK SABHA
UNSTARRED QUESTION No. 1980
TO BE ANSWERED ON FRIDAY, FEBRUARY 12, 2021

SEISMIC ZONE MAPPING IN BIHAR

1980. SHRI CHANDESHWAR PRASAD:

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

- (a) the details of Seismic Zone Classification/mapping done in Bihar, district-wise particularly in Jehanabad and Arwal districts; and
(b) the steps taken to increase awareness about earthquake resistant buildings in Bihar?

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

- (a) As per the seismic zoning map of India, prepared by Bureau of Indian Standards (BIS), the area under Bihar State falls under three zones, i.e. zone V, IV and III. The corresponding description of these zones with respect to intensity (Modified Mercalli scale) is given below:

Zone V	Very high-risk zone (Intensity IX or above)
Zone IV	High risk zone (Intensity VIII)
Zone III	Moderate risk zone (Intensity VII)

District wise detail of seismic zoning of Bihar State is provided in the following table:
Jehanabad district lies in the zone III and IV, while Arwal in zone III.

S. No.	City	Seismic Zone
1	Araria	IV and V
2	Arwal	III
3	Aurangabad	III
4	Banka	III and IV
5	Begusarai	IV
6	Bhagalpur	IV
7	Bhojpur	III and IV
8	Buxar	III
9	Darbhanga	IV and V
10	East Champaran (Motihari)	IV and V

11	Gaya	III
12	Gopalganj	IV
13	Jamui	III and IV
14	Jehanabad	III and IV
15	Kaimur (Bhabua)	III
16	Katihar	IV
17	Khagaria	IV
18	Kishanganj	IV and V
19	Lakhisarai	IV
20	Madhepura	IV and V
21	Madhubani	V
22	Munger (Monghyr)	IV
23	Muzaffarpur	IV
24	Nalanda	III and IV
25	Nawada	III and IV
26	Patna	III and IV
27	Purnia (Purnea)	IV
28	Rohtas	III
29	Saharsa	IV and V
30	Samastipur	IV
31	Saran	IV
32	Sheikhpura	IV
33	Sheohar	IV and V
34	Sitamarhi	IV and V
35	Siwan	III and IV
36	Supaul	V
37	Vaishali	IV
38	West Champaran	IV

- (b) NDMA has been conducting regular awareness campaigns every year through print, electronic as well as social media from time to time, on earthquakes that includes precautions for building safety from earthquakes. Also, Guidelines have been published by the Bureau of Indian Standards (BIS), Building Materials & Technology Promotion Council (BMTPC) and Housing and Urban Development Corporation (HUDCO) etc. for design and construction of earthquake resistant structures to minimize the loss of life and damage to property caused by earthquakes. These guidelines are in wide circulation amongst the public and the administrative authorities responsible for the design and construction of earthquake resistant structures in earthquake prone areas.
