

Report on Real Time Earthquake Location

**From: Earthquake Monitoring Center (EMC) of NCS
(R. K. Singh, S. K. Prajapati, Auchitya Pandey, Chaitanya Popali,
Mukesh Das and Sanjay Kumar)**

National Center for Seismology
Ministry of Earth Sciences
Government of India

Month: March 2026
Technical Report No: NCS/2026/03

Report of Earthquakes occurred in the month of March 2026

1)Introduction:

National Center for Seismology maintains a National Seismological Network of **170 stations** each having state of art equipment and spreading all across the country **(Figure:1)**. Using these stations during the period 01st – 31st March 2026 a total number of 478 earthquakes have been located

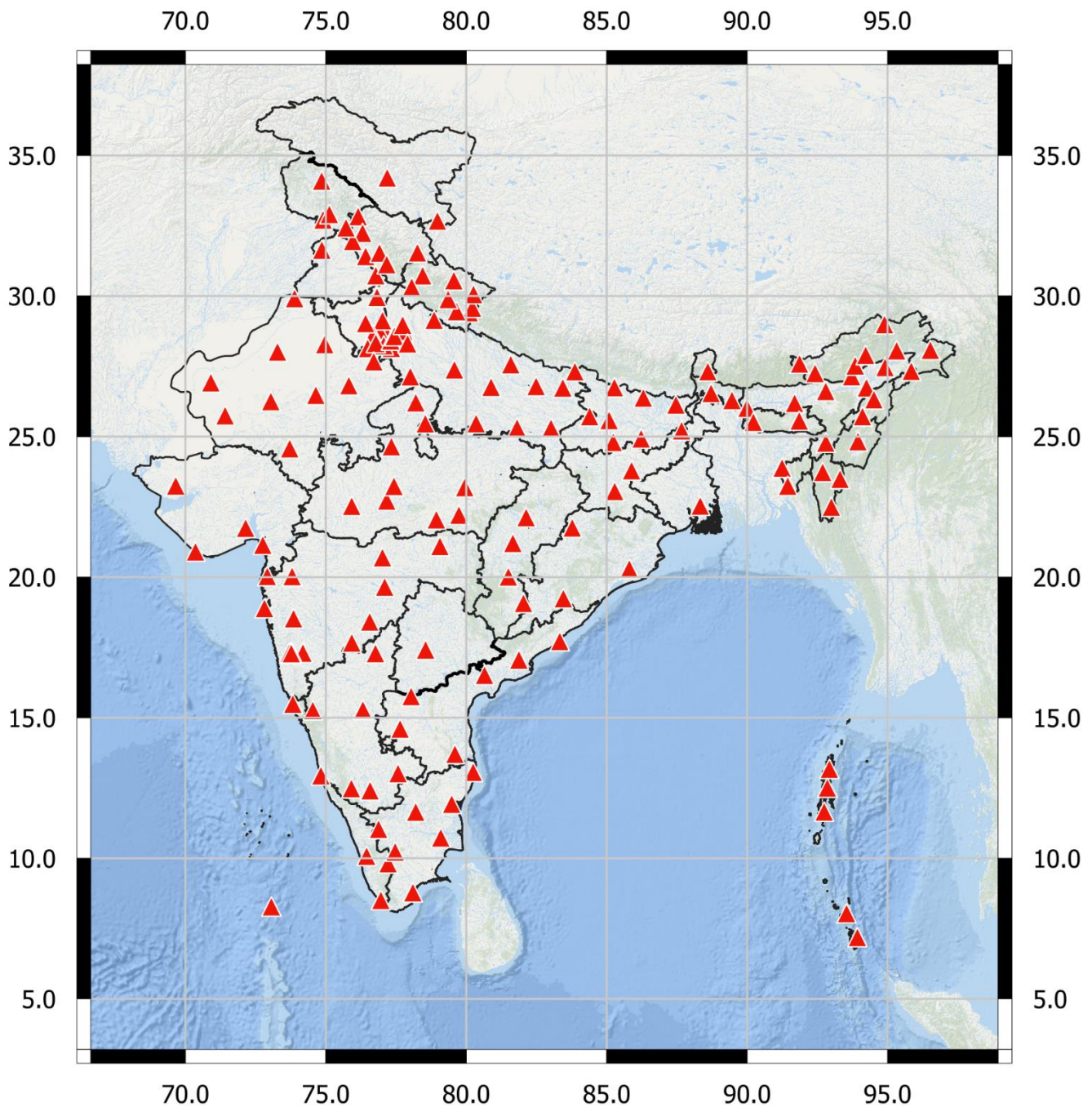


Figure 1: National Seismological Network (NSN) of 169 Stations

and disseminated from the center (**Figure:2**), out of which 254 earthquakes have occurred in India and its neighborhood region bounded by the coordinates 0°- 40°N & 60°-100°E (**Figure:3**).

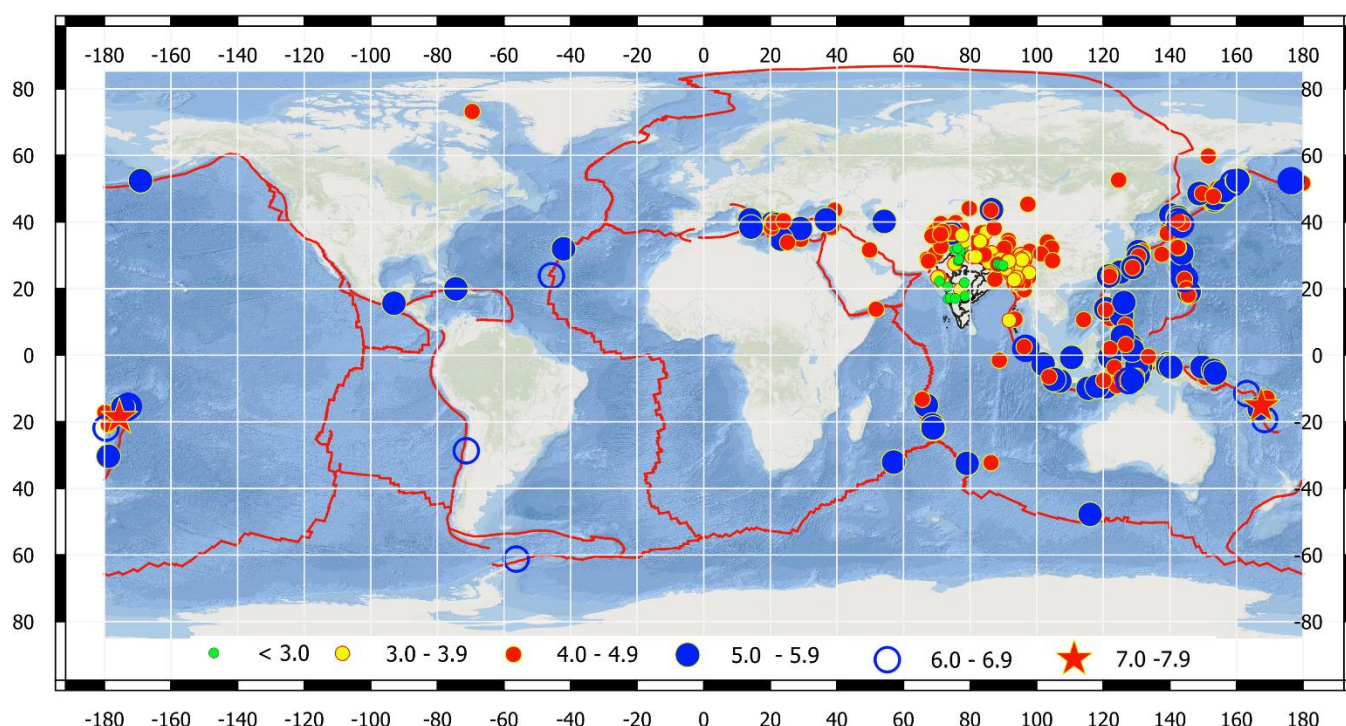


Figure 2: Earthquakes located and disseminated by NCS during 01st – 31st MAR 2026

2) Seismicity:

During the period, the majority of earthquakes within India and its neighbourhood region bounded by the coordinates 0-40°N & 60-100°E; were located in Hindu Kush region, North India (Ladakh, , Jammu-Kashmir, Himachal Pradesh and Uttarakhand), North East India (Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Tripura and Sikkim) as shown in **Figure 3**.

Few earthquakes of smaller magnitudes were also reported in northern (Gurdaspur in Punjab; Jhajjar and Rewari in Haryana); western (Sikar in Rajasthan; Botad, Kachchh, Rajkot and Valsad in Gujrat; Hingoli, Ratnagiri, Satara and Sangali in Maharashtra); eastern (Paschim Medinipur in West Bengal); central (Betul in Madhya Pradesh) and southern (Medak in Telangana) part of country.

Ninety four earthquakes of smaller magnitude (**M < 3.0**) comprising **20%** of all earthquakes occurred during 01st to 31st March 2026. **Four** earthquakes of magnitude **M:5.0 and above** occurred during the month in the region; as detailed in **Table:1**.

Out of total 478 earthquakes **18%**; **37%** and **22%** earthquakes occurred in the magnitude range **3.0-3.9**, **4.0-4.9** and **5.0-5.9** respectively. **Sixteen** earthquakes in the magnitude range **6.0-6.9** occurred

Table:1 Earthquakes of $M \geq 5.0$ occurred during March 2026 within India and its neighbourhood

SN	Date	Time (IST)	Lat($^{\circ}$ N)	Long($^{\circ}$ E)	D (KM)	M	Region
1	2026-03-03	10:26:47	02.06	96.73	20	6.2	Indonesia
2	2026-03-07	23:54:35	36.44	70.16	193	5.3	Afghanistan
3	2026-03-08	11:35:08	02.24	96.77	10	5.3	Indonesia
4	2026-03-27	02:33:03	36.701	74.352	140	5.0	Leh, Ladakh

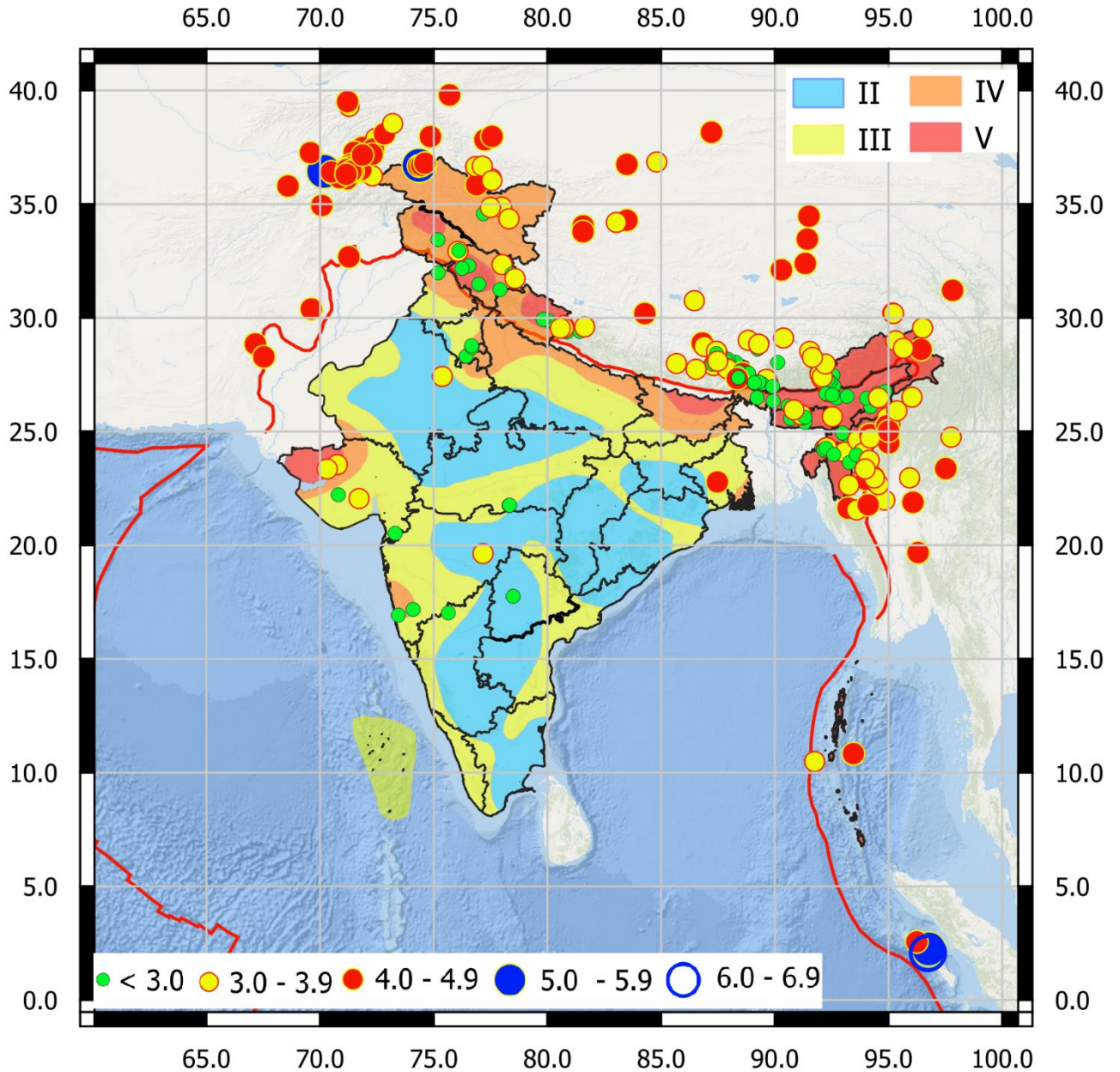


Figure 3: Map showing the seismicity during the period 01st – 31st MAR 2026 occurred in India and its neighbourhood region along with the seismic zone of India.

during the period of which one was inside the grid of 0- 40 $^{\circ}$ N & 60-100 $^{\circ}$ E as shown in **Figure 2**; **Figure 3** and **Figure 4(a)**. Two earthquake of magnitude **7.2** and **7.5** occurred was outside the grid of 0-

40°N & 60-100°E as shown in **Figure 2** and **Figure 4(a)**. Details of earthquakes occurred during the month is available at www.seismo.gov.in .

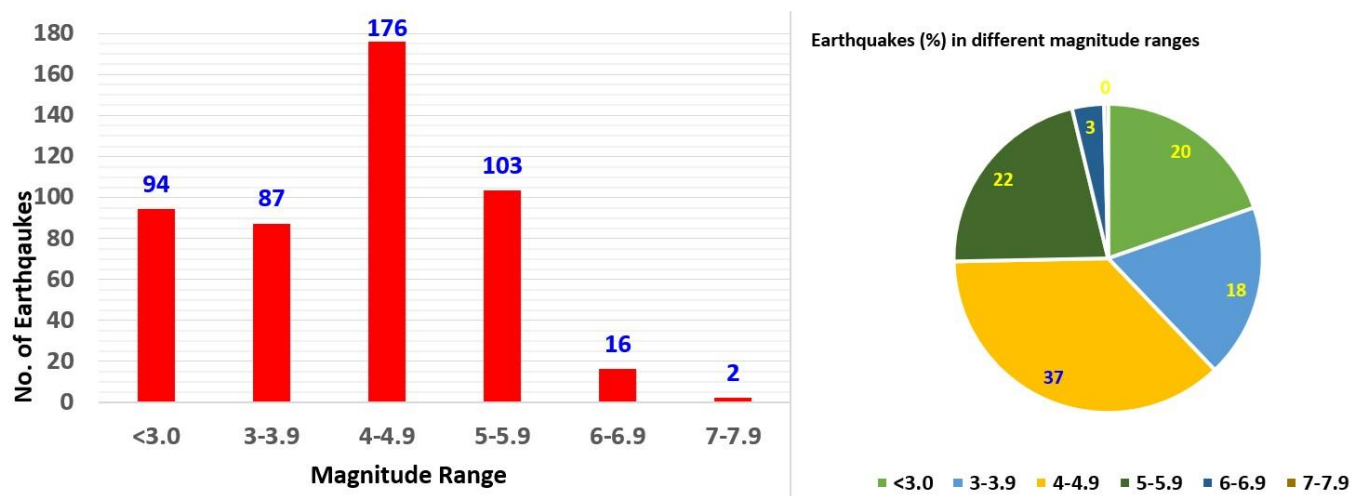


Figure 4 (a) : Distribution of earthquakes in the different magnitude range during 01st – 31st MAR 2026.

There is **positive change** in number of earthquakes in different magnitude ranges except of < 3.0 . The change for different magnitude ranges with respect to previous month (February 2026) is shown in Figure 4 (b).

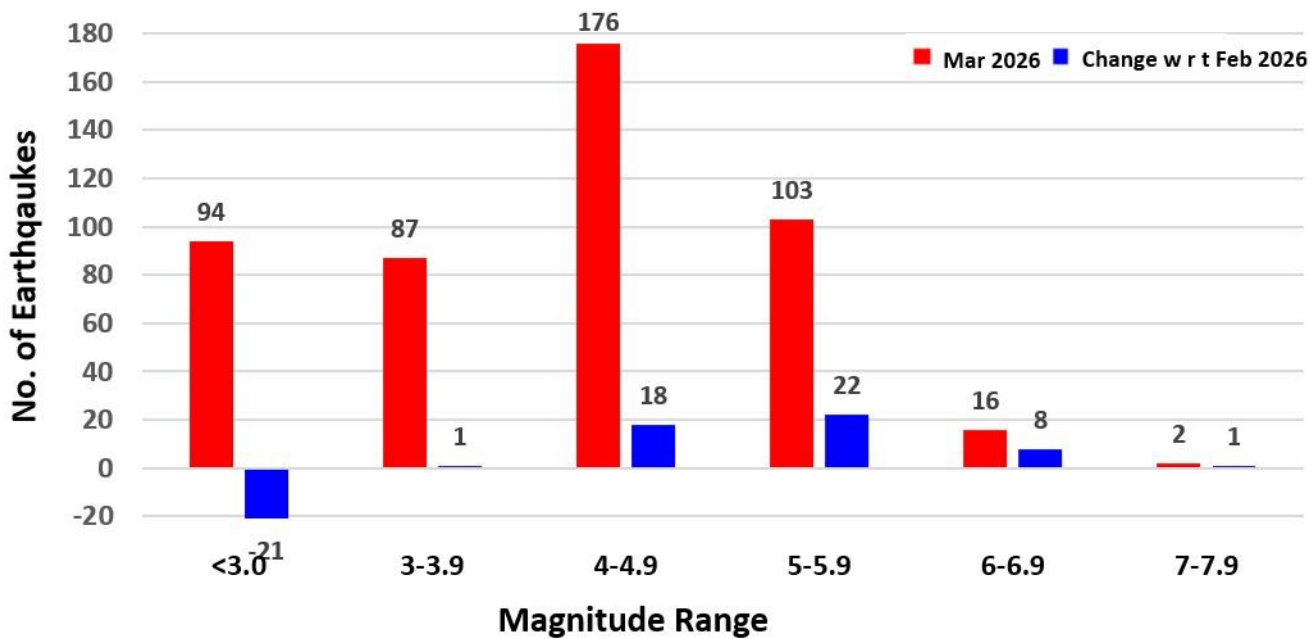


Figure 4 (b) : Change of occurrence of earthquakes in different magnitude ranges w r t previous month

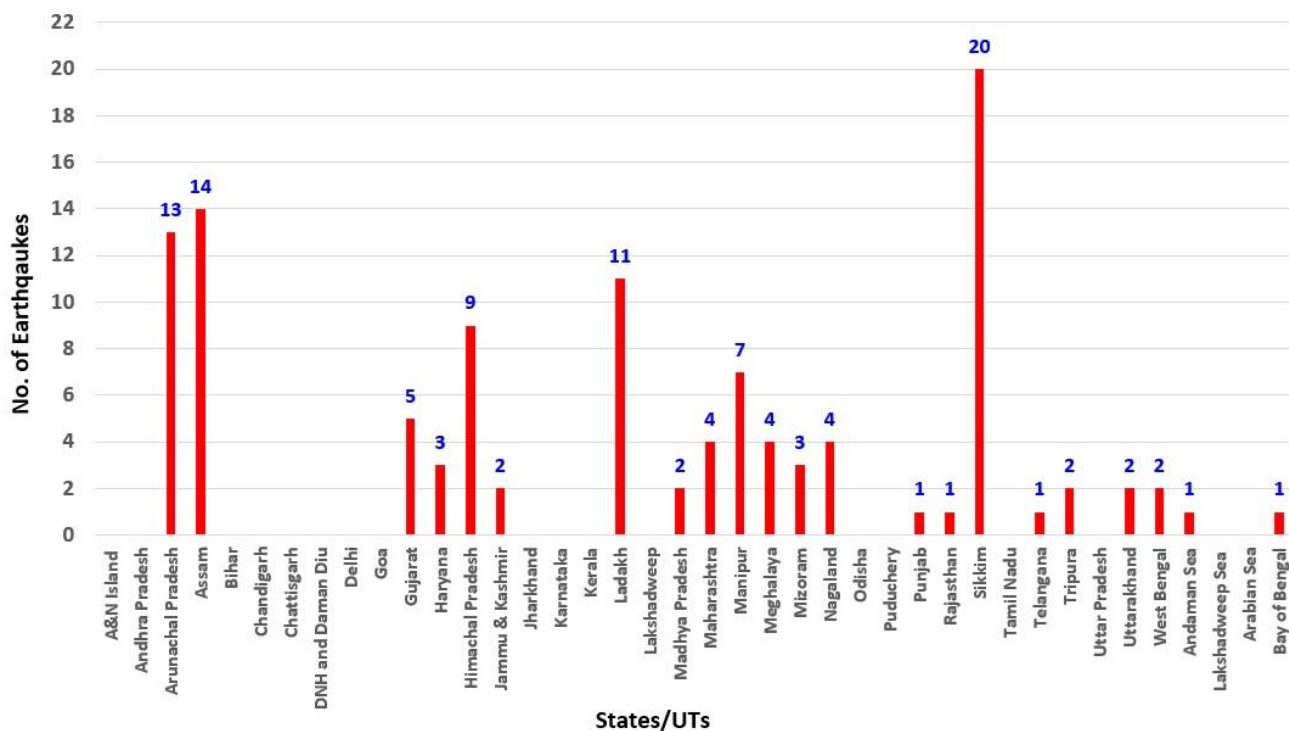


Figure 5: State wise distribution of earthquakes during the period 01st – 31st MAR 2026.

Total **112** earthquakes occurred within Indian territory; of which 20 earthquakes occurred in Sikkim, 14 in Assam, 13 in Arunachal Pradesh and 11 in Ladakh during the period. Out of 112 earthquakes **28** and **67** earthquakes occurred in **North** and **North-East** region respectively. State/UT and region wise distribution of earthquakes occurred during 01st – 31st March 2026 is shown in **Figure 5** and **Figure 7** respectively. There was sparse activity in eastern and southern part of the country during 01st – 31st March 2026 (**Figure 3** and **Figure 6**).

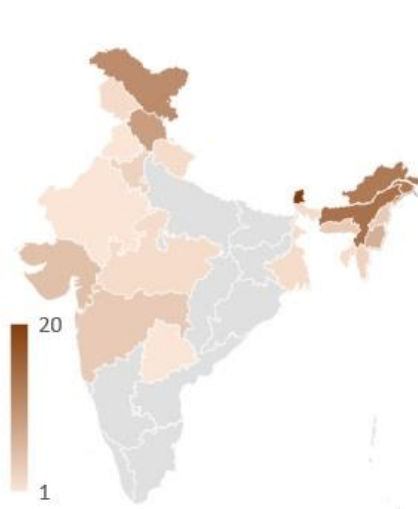


Figure: 6 Earthquake Density map

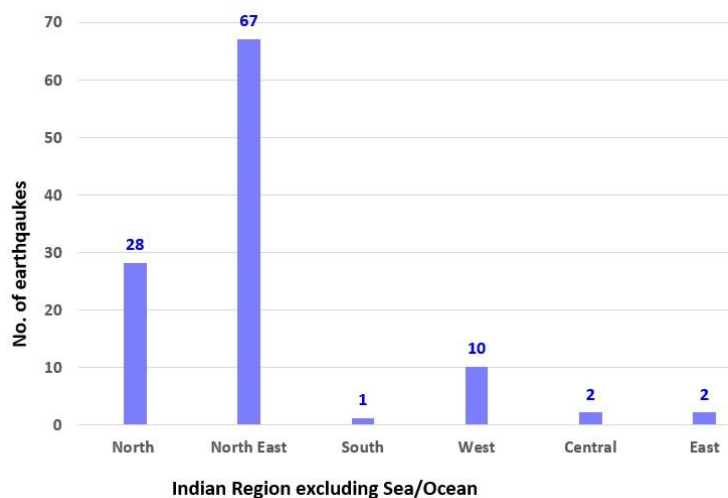


Figure: 7 Region wise distribution

3) Significant Activity:

A. Ladakh Earthquake: An earthquake of **M:5.0** occurred at **02:33:03 IST** of **27th MAR 2026** in Leh at 36.701° N and 74.352° E with focal depth of 140 km. The epicentre was about 288 km NW of Kargil, Ladakh, 293 km N of Srinagar, Jammu and Kashmir, 295 km N of Gulmarg, Jammu and Kashmir, 311km NNW of Pahalgam, Jammu and Kashmir, India. This event occurred in the area which falls in Seismic Zone IV which is seismically active region. The earthquake is located near the Main Karakoram Fault (MKT) system, which accommodated southward thrusting of the Karakoram block over the Ladakh block. Preliminary fault plane solution analysis indicates a thrust mechanism with strike-slip component, consistent with regional shear zones trending NNW–SSE to N–S directions. **Figure 8** depicts the expected intensity of this earthquake around the source zone. Following URL <https://riseq.seismo.gov.in/riseq/earthquake/event/VjBGa1ImL2dnb2RWREFKdXcwVG4zZz09/Reviewed> may be visited for more details.

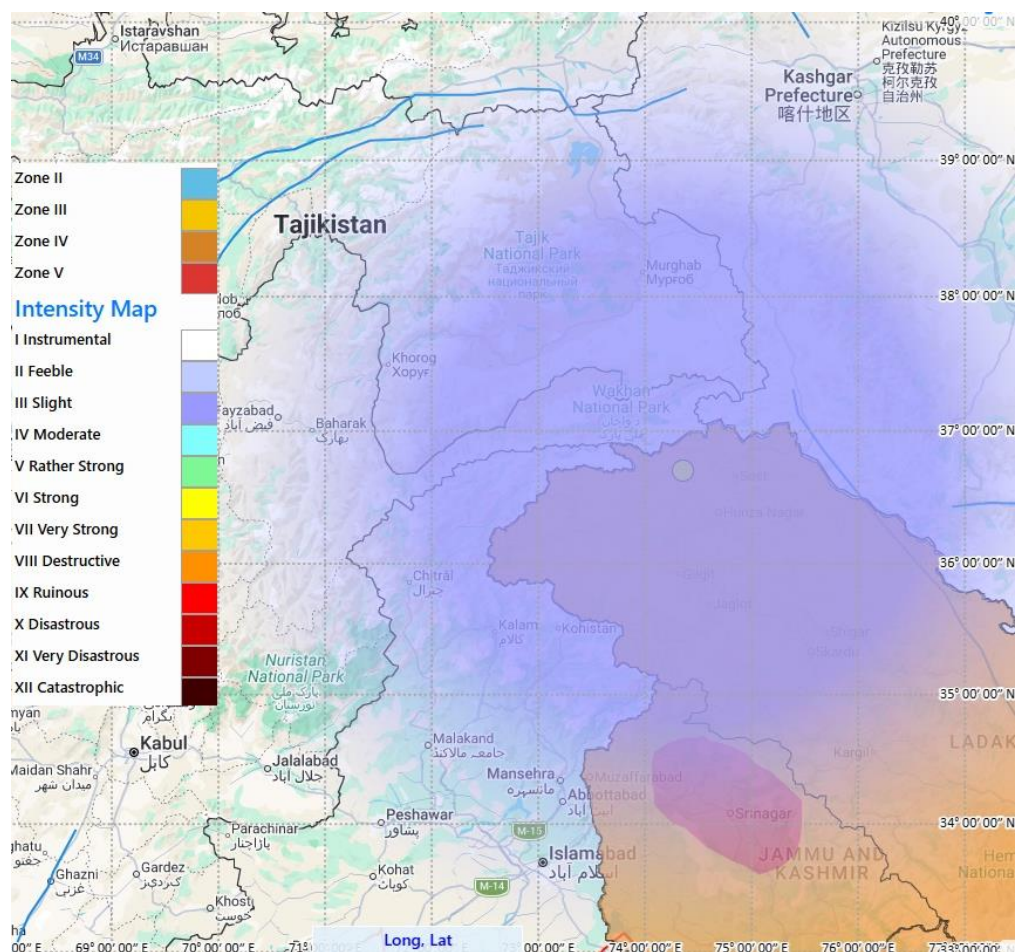
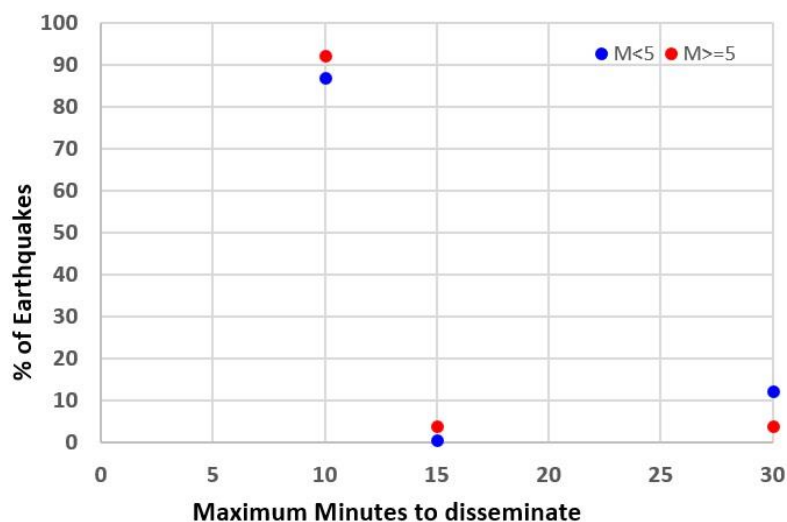


Figure 8: Intensity map of earthquake of M:5.0 occurred on 27th MAR 2026 in Ladakh

4) Dissemination Performance:



About **90%** earthquakes of **$M < 5.0$** and more than **90%** earthquakes of **$M \geq 5.0$** occurred within India and its neighbourhood region bounded by the coordinates $0-40^\circ\text{N}$ & $60-100^\circ\text{E}$ were disseminated within 10 minutes as shown in **Figure 9**.

Figure 9: Dissemination of earthquakes within different time ranges during 01st – 31st MAR 2026.