

GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
RAJYA SABHA
UNSTARRED QUESTION NO. 2130
ANSWERED ON 06/08/2026

WEATHER FORECASTING AND FLOOD MANAGEMENT IN TELANGANA

2130. SHRI RAVI CHANDRA VADDIRAJU:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether advanced forecasting systems are being deployed for Godavari and Krishna river floods;
- (b) the steps taken to expand seismic monitoring in Telangana; and
- (c) whether the farmers of the State are benefiting from agro-meteorological advisories?

ANSWER
THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR
MINISTRY OF SCIENCE AND TECHNOLOGY
AND EARTH SCIENCES
(DR. JITENDRA SINGH)

- (a) The Central Water Commission (CWC) under the Ministry of Jal Shakti (MoJS) is mandated to issue flood forecasts to concerned State Governments at identified locations. The India Meteorological Department (IMD), under the Ministry of Earth Sciences (MoES), operates 25 Flood Meteorological Offices (FMOs) across the country. These offices issue daily sub-basin-wise Quantitative Precipitation Forecasts (QPFs), valid for up to seven days, for 220 sub-basins. In addition to QPFs, they provide information on observed rainfall, prevailing weather systems, and forecast weather conditions to the Central Water Commission's (CWC) Central Flood Forecasting Divisions. These forecasts serve as a key input for flood forecasting. To generate these forecasts, IMD utilizes a combination of numerical weather prediction (NWP) models and artificial intelligence (AI)-based models. The final rainfall forecast is prepared using a multi-model ensemble approach supported by the Multi-Hazard Early Warning Decision Support System (MHEW-DSS).
- (b) The National Center for Seismology (NCS), under the Ministry of Earth Sciences, is the nodal agency responsible for earthquake monitoring in India. NCS monitors seismic activity across the country, including Telangana, through its National Seismological Network (NSN). At present, one NCS seismological observatory is operational in Hyderabad, Telangana. The NSN is capable of detecting and locating earthquakes of magnitude 3.0 and above occurring in Telangana.
- (c) Yes. The farmers of the State of Telangana are getting benefitted from the Agro-meteorological advisories regularly issued by IMD. IMD provides block- and Panchayat-level weather forecasts through digital platforms such as the Panchayat Mausam Seva Portal and disseminates timely advisories via WhatsApp and grassroots networks, including Krishi Sakhis and Pashu Sakhis. Under Mission Mausam, IMD has developed advanced platforms such as KALP and Mausam SANKALP to deliver location-specific agricultural advisories and strengthen weather analytics and climate-resilient agricultural planning.
