

Government of India Ministry of Earth Sciences India Meteorological Department

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Subject: Fairly widespread light to moderate rainfall/thunderstorms/hailstorms likely over: (i) Interior parts of Maharashtra, Telangana, Chhattisgarh, Jharkhand, Madhya Pradesh from 16^{th-}19th March; (ii) Northeast India during 15th-19th March and over East India during 16th-20th March; (iii) Northwest India including Western Himalayan Region during 17th-19th March.

Weather observed during past 24hours ending at 0830 hrs IST of today:

- Maximum temperature are in the range of 35-38°C at most places over plains of the country except over most parts of Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar and northeastern states where temperatures are in the range of 30-34°C. It is at the range of 25-29°C over some parts of Jammu & Kashmir, Himachal Pradesh and Uttarakhand.
- Maximum temperatures are above normal by 5-7°C over many parts of Jammu and Kashmir; by 3-5°C over many place of Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, north Madhya Pradesh, Chhattisgarh, Gujarat state, Konkan & Goa and Northeast India and near normal over rest parts of the country.
- Light/Moderate rainfall/thundershowers observed at many places over Arunachal Pradesh; at a few places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Uttarakhand and at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh, Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Marathawada, Vidarbha, Telangana, Coastal & South Interior Karnataka and Kerala.
- Hailstorm observed at isolated places over Uttarakhand and Sub-Himalayan West Bengal.

Weather Forecast and Warnings (Annexure I):

- A Western Disturbance as a cyclonic circulation lies over east Iran in middle & upper tropospheric levels with an induced cyclonic circulation over central parts of Rajasthan & neighbourhood in lower tropospheric levels.
- There is also likely low level southeasterly moist air incursion from the Bay of Bengal into east-central, east and northeast India and its interaction with the middle tropospheric westerly trough from 16th-20th March.

Under its influence:

Northwest India:

 Scattered to fairly widespread light/moderate rainfall with thunderstorm, lightning & gusty winds (speed 30-40 kmph) likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand during 16th- 19th and over Punjab, Haryana, Uttar Pradesh and Rajasthan on 17th-19th March, 2023.

• Isolated hailstorm activity also likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh on 16th & 17th; Uttarakhand during 15th-19th; Haryana & West Uttar Pradesh on 17th; over north Rajasthan during 17th-19th March, 2023.

West & Central India:

- Scattered to fairly widespread light/moderate rainfall with **thunderstorm**, **lightning & gusty winds (speed 30-40 kmph)** likely over Gujarat, Maharashtra, Madhya Pradesh, Vidarbha, Chhattisgarh during 16th-19th March, 2023.
- **Isolated hailstorm activity** also likely over East Madhya Pradesh, Vidarbha, Chhattisgarh on 16th & 17th; over Madhya Maharashtra & Marathawada during 15th-17th March, 2023.

South Peninsular India:

- ✤ A north-south trough runs from north interior Tamil Nadu to Konkan in lower tropospheric levels. Under its influence:
 - Scattered to fairly widespread light/moderate rainfall with **thunderstorm**, **lightning & gusty winds (speed 30-40 kmph)** likely over north interior Tamil Nadu, Andhra Pradesh, Telangana, Karnataka during 16th-19th March, 2023.
 - Isolated **heavy rainfall** very likely over Coastal Andhra Pradesh and Telangana on 18th March, 2023.
 - Isolated hailstorm activity also likely over Telangana on 16th & 17th March, 2023.

East & Northeast India:

- A trough in westerlies in middle tropospheric levels runs roughly along Long. 82°E and to the north of 25°N. Another trough runs from Sub-Himalayan West Bengal to south Odisha in lower tropospheric levels. Under the influence of these systems:
 - Fairly widespread light/moderate rainfall activity **with thunderstorm, lightning & gusty** winds (speed 30-40 kmph) likely over East and Northeast India during 15th -19th March, 2023.
 - **Isolated hailstorm activity** also likely over Sub-Himalayan West Bengal, Arunachal Pradesh, south Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 15th and over Bihar, Jharkhand and Gangetic West Bengal on 17th March, 2023.
 - Isolated heavy rainfall very likely over Arunachal Pradesh on 15th March, 2023

Maximum Temperatures Forecast during next 5 days:

- Northwest India: No significant change in maximum temperatures very likely during next 24 hours; fall by 2-4°C for subsequent 2 days and no significant change thereafter.
- East India: No significant change in maximum temperatures very likely during next 2 days and fall by 2-4°C thereafter.
- Central & West India: Fall by 2-4°C in maximum temperatures very likely during next 3 days and no significant change thereafter.
- Rest parts of the Country: No significant change in Maximum Temperatures very likely during next 5 days.

Impact expected and action suggested due to Isolated Thunderstorm/lightning/Squall & Hailstorm over Sub-Himalayan West Bengal and Northeast India on 15th; East Madhya Pradesh, Vidarbha, Chhattisgarh, Telangana, Madhya Maharashtra and Marathawada on 16th & 17th and over Bihar, Jharkhand and Gangetic West Bengal on 17th March.

Impact expected:

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

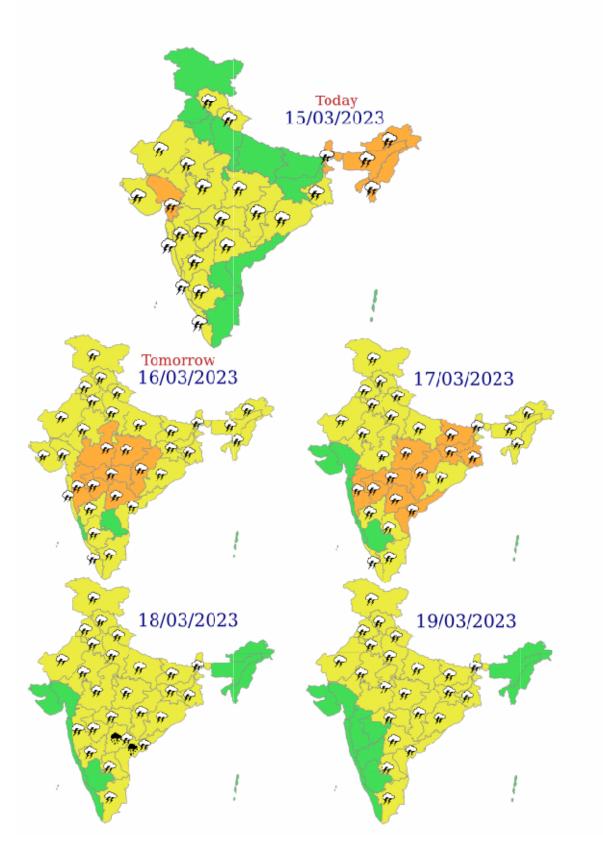
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

Advisory for farmers:

- Farmers are advised to Carry out harvesting of matured mustard, chickpea and vegetables in North, West and Central India; wheat, mustard and pulses in Madhya Pradesh and wheat, pulses and grapes in Maharashtra at the earliest and store them in safe place.
- Provide support to banana bunches with bamboo sticks or polypropylene sticks and staking to newly planted vegetables /creeper vegetables.
- Use the skirting bags or aluminium coated paper for grape bunches in Madhya Maharashtra to protect from rains.
- Avoid irrigation and any kind of chemical spray.

For more details kindly refer:<u>https://mausam.imd.gov.in/imd_latest/contents/all_india_forcast_bulletin.php</u>

Annexure I



Legends:

- HeavyRain:64.5to115.5mm;VeryHeavyRain:115.6to204.4mm;ExtremelyHeavyRain:>20 4.4mm.
- * Region wise classification of meteorological Sub-Divisions:
 - **NorthwestIndia**:WesternHimalayanRegion(Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad,HimachalPradeshandUttarakhand);Punjab,Haryana-Chandigarh-Delhi;WestUttarPradesh,EastUttarPradesh,WestRajasthanandEastRajasthan.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub- Himalaya West Bengal &Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - **NortheastIndia**:ArunachalPradesh,Assam&MeghalayaandNagaland,Manipur,Mizoram& Tripura.
 - **WestIndia:**GujaratRegion,Saurashtra&Kutch,Konkan&Goa,MadhyaMaharashtraandMara thwada.
 - **SouthIndia**:CoastalAndhraPradesh&Yanam,Telangana,Rayalaseema,CoastalKarnataka,N orthInteriorKarnataka,SouthInteriorKarnataka,Kerala&Mahe,TamilNadu,Puducherry&K araikalandLakshadweep.

