



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

**Press Release
Date: 17th March, 2023
Time of Issue: 1315 hours IST**

Subject: Rainfall accompanied with thunderstorms/hailstorms over most parts of the country during 17th-20th March.

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

- ❖ **Light/moderate rainfall/thundershowers** observed over most parts of the country. Details of rainfall are given in Annexure 1).
- ❖ Isolated **heavy rainfall** occurred over Odisha, Coastal Andhra Pradesh, Telangana and Rayalaseema.
- ❖ **Hailstorm** observed over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Rajasthan, West Madhya Pradesh, Bihar, Chhattisgarh, Odisha, Gangetic West Bengal, Meghalaya, Madhya Maharashtra, Gujarat Region, Marathwada, Telangana and South Interior Karnataka.

Weather Forecast and Warnings (Annexure II):

- ❖ A **Western Disturbance** as a trough runs along Long. 68°E to the north of Lat.25°N in middle tropospheric levels. A cyclonic circulation over southwest Rajasthan and another over northeast Rajasthan in lower tropospheric levels.
- ❖ A trough/wind discontinuity runs from Tamilnadu to north Konkan in lower tropospheric levels.
- ❖ Under the influence of above favourable conditions, following weather is expected;
Northwest India: Scattered to fairly widespread light/moderate rainfall with **thunderstorm, lightning & gusty winds** likely over Western Himalayan Region and Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh & Rajasthan on 17th-20th March, 2023. Isolated **hailstorm** over Himachal Pradesh & Uttarakhand during next 4 days and over rest parts of the region on 17th March.
West & Central India: Scattered to fairly widespread light/moderate rainfall with **thunderstorm, lightning & gusty winds** likely over Gujarat, Maharashtra, Madhya Pradesh, Vidarbha, Chhattisgarh during 17th-19th March, 2023. **Isolated hailstorm** also likely over East Madhya Pradesh, Vidarbha and Chhattisgarh on 17th & 18th; over Gujarat state, Madhya Maharashtra & Marathwada on 17th March, 2023.
South Peninsular India: Scattered to fairly widespread light/moderate rainfall with **thunderstorm, lightning & gusty winds** likely over north interior Tamil Nadu, Andhra Pradesh, Telangana, Karnataka during 17th-19th March, 2023. **Isolated hailstorm** also likely over the region on 17th March, 2023.
Isolated **heavy rainfall** very likely over Coastal Andhra Pradesh during 17th-19th; Telangana on 17th & 18th and over Rayalaseema on 17th March.
East & Northeast India: Fairly widespread to widespread light/moderate rainfall activity **with thunderstorm, lightning & gusty winds** likely over East and Northeast India during 17th -21st March, 2023. **Isolated hailstorm** also likely over Sub-Himalayan West Bengal, south Assam & Meghalaya, Tripura, Jharkhand and Gangetic West Bengal on 17th and over Bihar & Odisha on 17th & 18th March, 2023.
Isolated **heavy rainfall** very likely over Arunachal Pradesh, Assam & Meghalaya on 19th & 20th and over Tripura on 20th March, 2023.

Maximum Temperatures Forecast during next 5 days:

- ❖ **Maximum temperatures** are very likely to be near normal or below normal over most parts of the country during next 5 days.

Impact expected and action suggested due to Isolated Thunderstorm/lightning/Squall & Hailstorm over Northwest, Central, East & Northeast India and Andhra Pradesh on 17th March, 2023.

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.

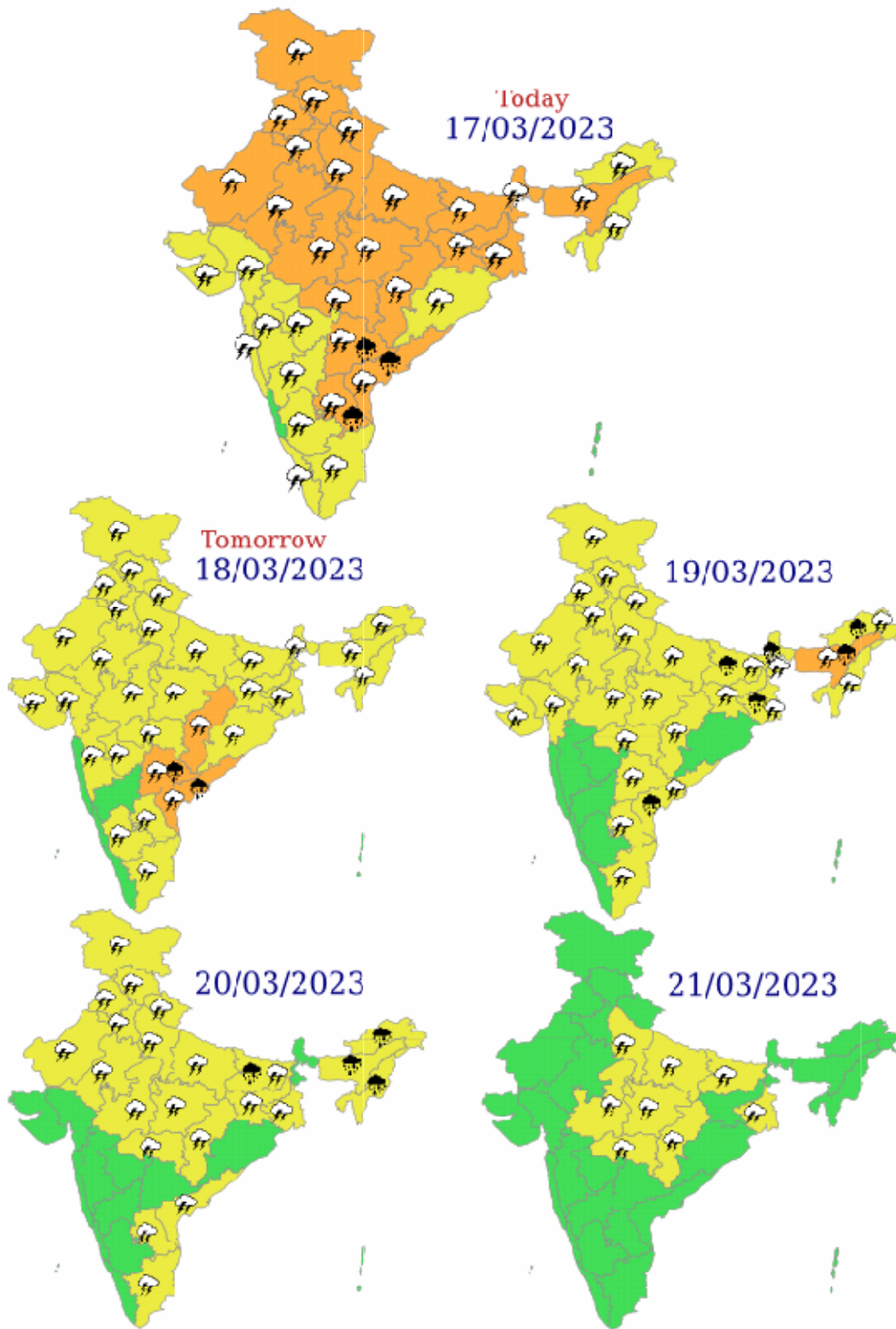
Advisory for farmers:

- Postpone harvesting of crops in Punjab, Haryana and West Madhya Pradesh; if already harvested, store at safe places to avoid losses. Withhold irrigation to wheat to avoid lodging.
- Carry out harvesting of matured mustard and chickpea in Rajasthan and mustard, chickpea and wheat in East Madhya Pradesh at the earliest and store them in safe place.
- Carry out harvesting of wheat, pulses and grapes in Madhya Maharashtra at the earliest and store them in safe place. Postpone harvesting of crops in Marathwada. Use the skirting bags or aluminium coated paper for grape bunches to protect from rains.
- Use hail nets to protect orchards.

For more details kindly refer:https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php

Annexure I

- ❖ **Light/moderate rainfall/thundershowers** observed over most parts of the country (Annexure 1). **at most places over** Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam; Gangetic West Bengal and Jharkhand; **at many places over** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Jharkhand, Sub-Himalayan West Bengal; **at a few places over** Uttarakhand, Punjab, West Rajasthan, Vidarbha, Bihar, Andaman & Nicobar Islands, Madhya Maharashtra, North Interior Karnataka and **at isolated places over** Haryana, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Odisha, Marathwada, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal, Gujarat state, Konkan & Goa, South Interior Karnataka and Kerala & Mahe..
- ❖ **Significant amount of rainfall (in cm):** **Telangana:** Enkuru (Khammam) 9, Garla (Mahabubabad) 7, Konijerla (Khammam) 6, Wyra Kvk(agro) (Khammam) 5, **Rayalaseema:** Koilkuntla (Kurnool) 8, Pulivendla (YSR District) 4, Pamidi (Anantapuramu) 4; **Bihar:** West Champaran: Sikta-6, Darbhanga: Kamtaul-6 -**Sub-Himalayan West Bengal & Sikkim:** Gangtok-5; **Assam & Meghalaya:** Jowai_aws (West Jaintia Hills) 5, **Tamilnadu:** Perunchani Dam (Kanyakumari), Puthan Dam (Kanyakumari) 6 each, Sivagiri (Tenkasi) 5, **Karnataka:** Chintamani Pto (Chikkaballapura dt) 6; Halbarga, Janwada, Mannalli (all Bidar dt), **Coastal Andhra Pradesh:** Karamchedu (dist Bapatla) 6, Kurupam (Parvathipuram Manyam) 4; **Punjab:** Ludhiana: Halwara-6, Ludhian-3; **Chhattisgarh:** Sukma: Sukma, Konta-5, **Odisha:** Koraput: Lamataput-7.



Legends:

- ❖ **HeavyRain:**64.5to115.5mm;**VeryHeavyRain:**115.6to204.4mm;**ExtremelyHeavyRain:**>204.4mm.
- ❖ **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,MadhyaMaharashtraandMarathwada.
 - **SouthIndia:**CoastalAndhraPradesh&Yanam,Telangana,Rayalaseema,CoastalKarnataka,NorthInteriorKarnataka,SouthInteriorKarnataka,Kerala&Mahe,TamilNadu,Puducherry&KaraikalandLakshadweep.

SPATIAL DISTRIBUTION (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

WARNING	
WARNING (TAKE ACTION)	
ALERT (BE PREPARED)	
WATCH (BE UPDATED)	
NO WARNING (NO ACTION)	

Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

 Heavy Rain	 Heavy Snow	 Thunderstorm	 Dust Storm
 Strong Winds	 Visibility	 Cyclone	 Squall/ Hail
 Frost	 Cold Wave	 Heat Wave	 Sea State