



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

**Press Release
Date: 14th March, 2023
Time of Issue: 1330 hours IST**

Subject: Light to moderate rainfall accompanied by thunderstorms and hailstorms likely over North-eastern states during 14th-15th March and over interior Maharashtra, Telangana, Chhattisgarh, Jharkhand, Madhya Pradesh from 16th March, 2023.

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

- ❖ **Maximum temperature** were in the range of **36-38°C** at many places over West Rajasthan, Gujarat state, Vidarbha, Telangana, Odisha, Kerala, Rayalaseema and interior Tamilnadu; in the range of **34-36°C** over rest parts of the country except Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh where temperatures were in the range of **30-33°C**. **It is** in the range of **25-30°C** over Western Himalayan Region.
- ❖ **Maximum temperatures** were above normal by **4-7°C** over Jammu and Kashmir; **by 3-5°C** at many place over plains of Northwest India, Gujarat state, Konkan & Goa, Northeast India and Bihar; **by 1-3°C** over rest parts of the country except southeast Peninsula and interior Maharashtra where temperatures departures are near normal.
- ❖ **Light/Moderate rainfall/thundershowers** observed at a few places over Sub-Himalayan West Bengal & Sikkim and Himachal Pradesh and at isolated places over Jammu & Kashmir, Uttarakhand, Punjab, West Madhya Pradesh, Madhya Maharashtra, Andaman & Nicobar Islands, Arunachal Pradesh and Tamilnadu, Puducherry & Karaikal.
- ❖ **Hailstorm** observed at isolated places over Uttarakhand and Madhya Maharashtra.

Weather Forecast and Warnings (Annexure I):

- ❖ A fresh active Western Disturbance is likely to affect Indian region from 16 March, 2023.
- ❖ Due to 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 16 March:
 - 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, Gujarat, Maharashtra, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, West Bengal and Jharkhand during 16th-18th; over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand during 16th-18th and over Punjab, Haryana, Uttar Pradesh and Rajasthan on 17th & 18th March, 2023.

- Isolated **heavy rainfall** very likely over south Chhattisgarh on 17th and over Coastal Andhra Pradesh and Telangana on 17th & 18th March, 2023.
 - Isolated **hailstorm** activity also likely over East Madhya Pradesh, Vidarbha, Chhattisgarh and Telangana on 16th & 17th; over Madhya Maharashtra & Marathawada during 14th-16th; over Himachal Pradesh and Uttarakhand on 17th & 18th March 2023.
 - Scattered to fairly widespread light to moderate rainfall activity **with thunderstorm, lightning & gusty** winds (speed 30-40 kmph) likely over Sub-Himalayan West Bengal & Sikkim and northeast India during 15th -18th March and with **isolated hailstorm** over the region on 15th March, 2023.
 - Isolated **heavy rainfall** likely over Arunachal Pradesh on 15th March, 2023.
- ❖ The **Western Disturbance** as a trough in westerlies in middle tropospheric levels runs roughly along Long. 75°E and to the north of 22°N and an induced cyclonic circulation lies over southeast Rajasthan & neighbourhood in lower tropospheric levels. Under its influence:
- Isolated to scattered rainfall **with thunderstorm & lightning** very likely over Western Himalayan Region during 14th-15th March. Isolated **hailstorm** activity also likely over Uttarakhand on 14th March.

Maximum Temperatures Forecast and Heat Wave warnings during next 5 days:

- ❖ **Heat wave conditions very likely to occur in isolated pockets over Saurashtra on 14th March, 2023.**
- ❖ **Northwest & East India:** No significant change in maximum temperatures very likely during next 2 days and fall by 2-4⁰C thereafter.
- ❖ **Central & West India:** No significant change in maximum temperatures very likely during next 24 hours and fall by 2-4⁰C 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 East Madhya Pradesh, Vidarbha, Chhattisgarh, Telangana, Madhya Maharashtra and Marathawada on 16th & 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.

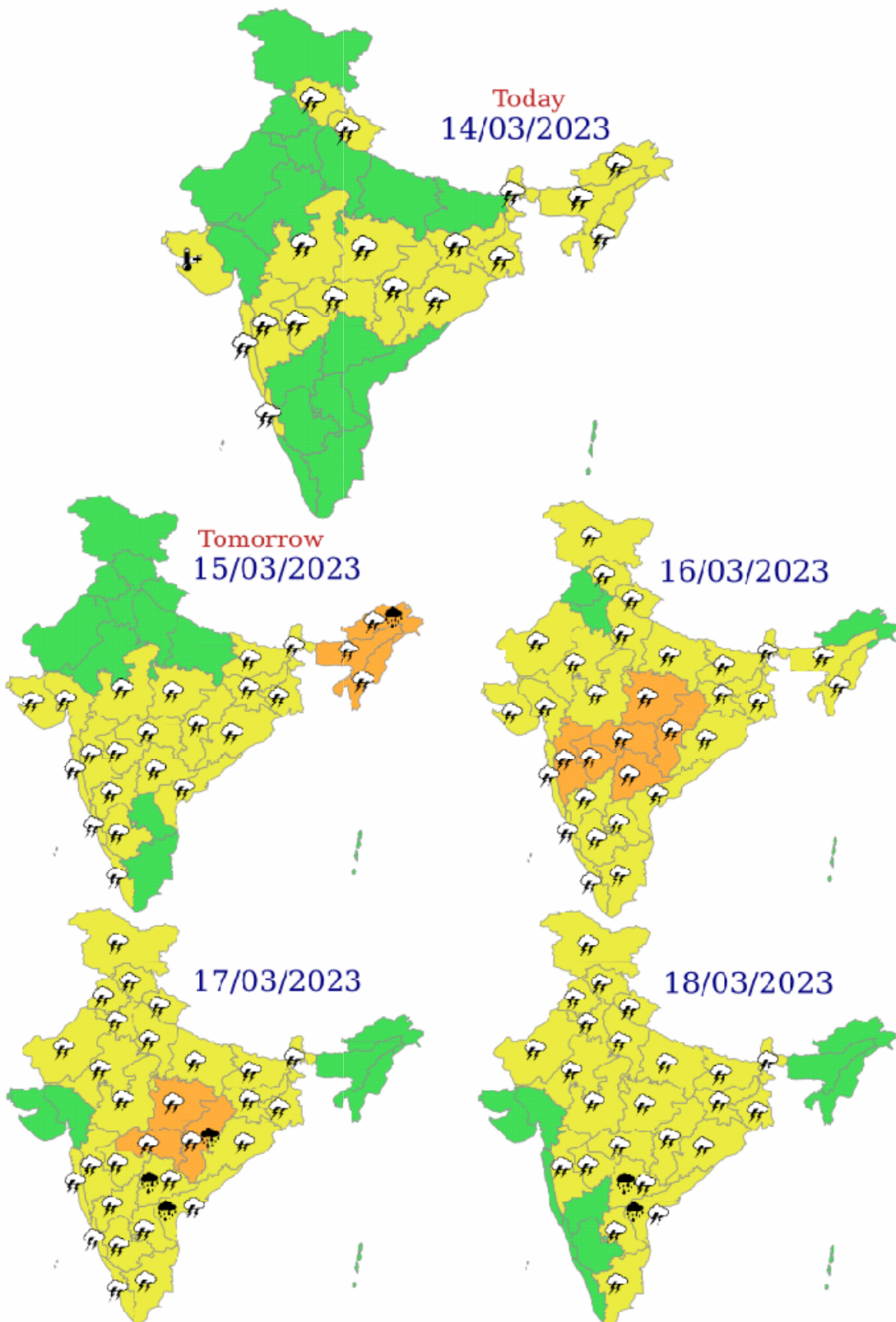
Advisory for farmers:

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:https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php



Legends:

❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** > 204.4 mm.

❖ **Region wise classification of meteorological Sub-Divisions:**

- **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- **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.
- **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

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