



Government of India  
Ministry of Earth Sciences  
India Meteorological Department

## India Meteorological Department extends warm greetings on the occasion of World Meteorological Day on 23rd March, 2023.

Press Release  
Date: 23<sup>rd</sup> March, 2023  
Time of Issue: 1300 hours IST

**Subject: Rainfall/thunderstorm/hailstorm activity over Northwest India from evening of 23<sup>rd</sup> & on 24<sup>th</sup> and over Central & East India during 25<sup>th</sup>-27<sup>th</sup> March, 2023.**

**Weather observed during past 24 hours ending at 0830 hrs IST of today (Refer Annex 1)**

### **Weather Forecast and Warnings (Annexure II):**

- ❖ A **Western Disturbance** seen as a cyclonic circulation over Iran & neighbourhood in lower & middle tropospheric levels. It is likely to move eastwards towards north India during next 2-days.
- ❖ A **cyclonic circulation** lies over southwest Rajasthan & neighbourhood in lower tropospheric levels.
- ❖ A **trough** runs from Rayalaseema to south Jharkhand in lower tropospheric levels.
- ❖ Under the influence of above synoptic features, following weather is expected;
  - Northwest India:** A fresh spell of **rainfall & thunderstorm activity** is likely to commence over the region from evening of 23<sup>rd</sup> -25<sup>th</sup> March with **Isolated hailstorm likely over** Punjab & West Rajasthan on 23<sup>rd</sup> and over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, West Uttar Pradesh, north Rajasthan on 24<sup>th</sup> March and over Uttarakhand on 25<sup>th</sup> March.
  - Central India:** Mainly dry weather likely over the region during next 2 days. Thereafter, a fresh spell of **rainfall & thunderstorm/hailstorm activity** is likely to commence over the region (Madhya Pradesh, Vidarbha & Chhattisgarh) on 25<sup>th</sup> & 26<sup>th</sup> March.
  - South India:** Isolated to scattered light/moderate rainfall with **thunderstorm & lightning** likely over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Andhra Pradesh during next 5 days. A fresh spell of **rainfall & thunderstorm** activity is likely to commence over Telangana, Kerala & Mahe and interior Karnataka from 24<sup>th</sup> March.
  - Northeast India:** Scattered to fairly widespread light/moderate rainfall activity **with thunderstorm & lightning** likely to continue over Northeast India during next 5 days. Isolated **heavy rainfall** likely over Arunachal Pradesh and Assam & Meghalaya on 23<sup>rd</sup> March, 2023.
  - East India:** Mainly dry weather likely over the region during next 3 days. A fresh spell of **rainfall & thunderstorm activity** is likely to commence over the region from 26<sup>th</sup> March.

### **Maximum Temperatures Forecast during next 5 days:**

- ❖ **Northwest India:** No significant change in maximum temperatures very likely during next 3 days and rise by 2-3<sup>o</sup>C thereafter.
- ❖ **East India:** Rise in maximum temperatures by 2-3<sup>o</sup>C very likely during next 2 days and no significant change thereafter.
- ❖ **Gujarat:** No significant change in maximum temperatures very likely during next 2 days and rise by 2-3<sup>o</sup>C thereafter.
- ❖ **Maharashtra:** Gradual rise in maximum temperatures by 2-4<sup>o</sup>C very likely during next 5 days.
- ❖ **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/gusty winds & Hailstorm**

- **23<sup>rd</sup> March:** Punjab, Haryana and West Rajasthan
- **24<sup>th</sup> March:** Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh, north Rajasthan
- **25<sup>th</sup> March:** Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Telangana
- **26<sup>th</sup> March:** Vidarbha, Chhattisgarh

#### **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.

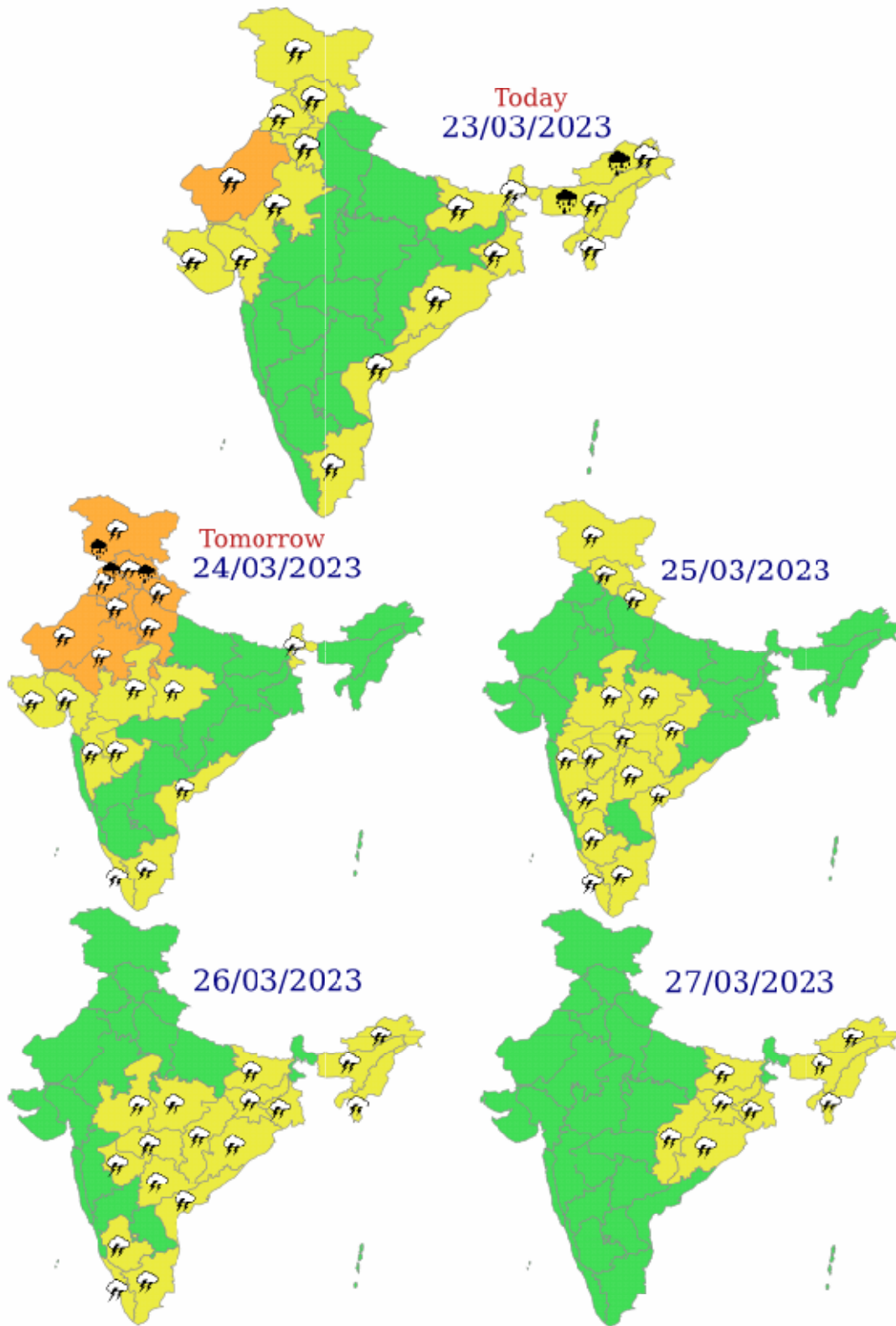
#### **Advisory for farmers:**

- Postpone harvesting of crops in Punjab, Haryana, Rajasthan and Arunachal Pradesh; keep already harvested produce in a safe place or cover the heaps of already harvested produce in the field with tarpaulin sheets.
- Postpone sowing of Jute in Sub-Himalayan West Bengal and maize in Sikkim and Arunachal Pradesh.
- Drain out excess water from crop fields.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Use hail nets to protect orchards.

For more details kindly refer: [https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php)

## Annexure I

- ❖ **Maximum temperatures** are in the range of 26-29°C over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Northeast states; in the range of 30-34°C over rest parts of the country except Rayalaseema, Tamilnadu and Kerala where they are in the range of 35-37°C and in the range of 19-22°C over Western Himalayan Region.
- ❖ **Maximum temperatures** are 4-7°C below normal over Himachal Pradesh, Uttarakhand, Haryana, Delhi, Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, parts of Gujarat, interior Maharashtra, Odisha and northeast India; 1-3°C below normal over rest parts of the country except Tamilnadu and Kerala where these are near normal.
- ❖ **Light/moderate rainfall/thundershowers** observed **at most places** over Arunachal Pradesh, Assam & Meghalaya; **at many places** over Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim; **at a few places** over East Rajasthan, Chhattisgarh, Gangetic West Bengal, Odisha, Andaman & Nicobar I Coastal Andhra Pradesh & Yanam and **at isolated places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, West Rajasthan, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Rayalaseema, Telangana, Kerala and Tamilnadu.
- ❖ **Hailstorm** observed at isolated places over Himachal Pradesh.
- ❖ **Significant amount of rainfall (in cm):**
  - **Arunachal Pradesh:** Tuting (dist Upper Siang) 4;
  - **Assam & Meghalaya:** Majuli (dist Jorhat) 6, N.lakhimpur/lilabari (dist Lakhimpur) 4, Jiagaon (dist Tinsukia) 4, Udaipur (dist Tinsukia) 4, Kokrajhar (dist Kokrajhar) 4;
  - **Sub-Himalayan West Bengal & Sikkim:** Jalpaiguri-5, North Sikkim-3;
  - **Coastal Andhra Pradesh & Yanam:** Anakapalle-5.



**Legends:**

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

