



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

**Press Release
Date: 22nd March, 2023
Time of Issue: 1315 hours IST**

Subject: Fresh spell of rainfall/thunderstorm/hailstorm activity over Northwest India on 23rd & 24th March; over Central India during 24th-26th and over Eastern India on 26th March, 2023.

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

- ❖ **Light/Moderate rainfall/thundershowers** observed over most parts of east & northeast India and some parts of northwest and central India. (Details of rainfall are given in Annexure 1).
- ❖ **Heavy rainfall** occurred at isolated places at isolated places over East Uttar Pradesh, Coastal Andhra Pradesh, Tamilnadu and Assam & Meghalaya.
- ❖ **Hailstorm** observed at isolated places over East Uttar Pradesh, Chhattisgarh, Odisha, Jharkhand, Bihar and Odisha.
- ❖ **Maximum temperatures** are in the range of 23-26°C over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Northeast states; in the range of 27-33°C over rest parts of the country except Andhra Pradesh, Tamilnadu, south Karnataka and south Gujarat where it is in the range of 34-37°C and in the range of 19-22°C over Western Himalayan Region.
- ❖ Maximum Temperatures are 5-10°C below normal over Himachal Pradesh, Uttarakhand, Haryana, Delhi, Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, interior Maharashtra, north Odisha, West Bengal & Sikkim and northeast India; 1-5°C below normal over rest parts of the country except Tamilnadu and West coast where these are near normal.

Weather Forecast and Warnings (Annexure II):

- ❖ A **trough** in middle tropospheric westerlies runs roughly along Long. 87°E to the north of Lat. 25°N.
- ❖ A **cyclonic circulation** lies over southwest Rajasthan & neighbourhood in lower tropospheric levels.
- ❖ A **trough** runs from Interior Tamil Nadu to south Chhattisgarh in lower tropospheric levels.
- ❖ A fresh active **Western Disturbance** seen as a cyclonic circulation over Iran & neighbourhood in lower & middle 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 23rd March with **Isolated hailstorm likely over** Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, West Uttar Pradesh and Rajasthan on 23rd & 24th 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) during 24th-26th March.
 - South India:** Isolated light rainfall with **thunderstorm & lightning** likely over Tamilnadu, Puducherry & Karaikal on 22nd March and over 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 24th March.
 - Northeast India:** Scattered to fairly widespread light/moderate rainfall activity **with thunderstorm, lightning & gusty** winds likely to continue over Northeast India during next 2 days. Isolated **heavy rainfall** very likely over Arunachal Pradesh and Assam & Meghalaya on 22nd March.
 - East India:** Isolated to scattered rainfall with **thunderstorm, lightning & gusty winds** likely over East India on 22nd and decrease significantly thereafter. A fresh spell of **rainfall & thunderstorm activity** is likely to commence over the region from 26th March.

Maximum Temperatures Forecast during next 5 days:

- ❖ **Central & West India:** Gradual rise in maximum temperatures by 2-3°C during next 2 days and no significant change thereafter.
- ❖ **East India:** Gradual rise in maximum temperatures by 3-4°C 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/gusty winds & Hailstorm

- **23rd March:** Uttarakhand, Punjab, Haryana and West Rajasthan
- **24th March:** Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh, East Rajasthan and West Madhya Pradesh
- **25th & 26th March:** Madhya Pradesh, 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.

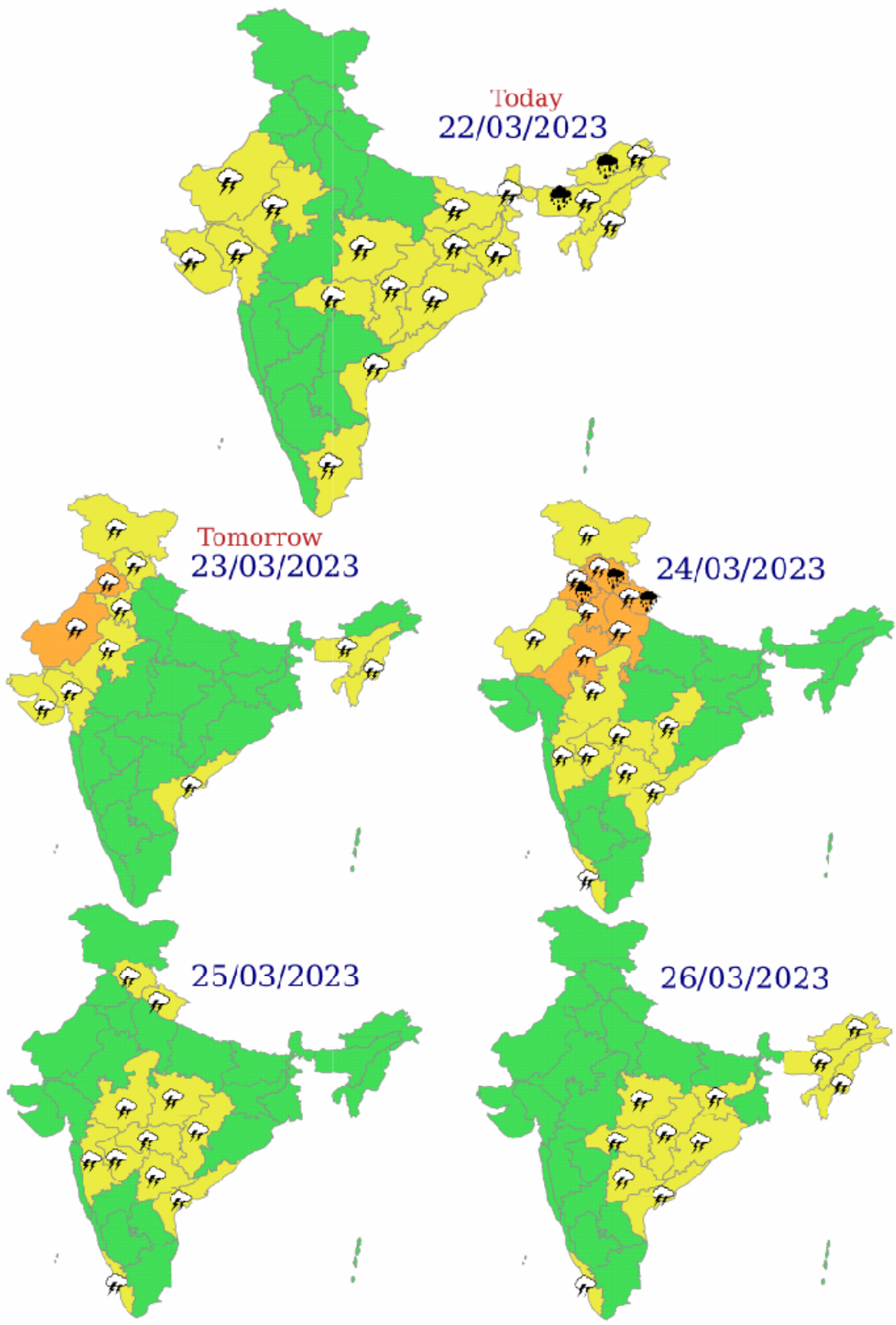
Advisory for farmers:

- 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

- ❖ **Light/moderate rainfall/thundershowers** observed **at most places over** Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Uttarakhand; **at many places over** Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Jharkhand, East Uttar Pradesh, Chhattisgarh; **at a few places over** Bihar, West Uttar Pradesh, Himachal Pradesh, West Rajasthan and **at isolated places over** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Haryana, Punjab, East Rajasthan, Madhya Pradesh, Vidarbha, Gujarat, Madhya Maharashtra, Konkan & Goa, Andhra Pradesh, Telangana and Tamilnadu.

- ❖ **Significant amount of rainfall (in cm):**
 - **Arunachal Pradesh:** Tuting (dist Upper Siang) 4,
 - **Assam & Meghalaya:** Shella (dist East Khasi Hills) 9, Mawsynram (dist East Khasi Hills) 7,
 - **Jharkhand:** Hazaribagh, Koderma-5 each, Giridih-4
 - **Sub-Himalayan West Bengal & Sikkim:** North Sikkim-6
 - **Odisha:** Kendrapara, Ganjam-5 each, Gajapati, Kalahandi-4 each
 - **Himachal Pradesh:** Mandi-3
 - **Uttarakhand:** Garhwal Tehri-3
 - **East Uttar Pradesh:** Kheri-9, Pratapgarh, Varanasi-6 each, Barabanki-4
 - **East Madhya Pradesh:** Bichhia (dist Mandla) 3,
 - **Chhattisgarh:** Masturi (dist Bilaspur) 4, Patharia (dist Mungeli) 4, Mungeli (dist Mungeli) 4,
 - **Coastal Andhra Pradesh & Yanam:** Vepada (dist Vizianagaram) 7, Gajapathinagaram (dist Vizianagaram) 4, Ranastalam (dist Srikakulam) 4,
 - **Tamilnadu:** Pennagaram: Dharmapuri-9,
 - **Konkan:** Pen (dist Raigad) 4,



Legends:

- ❖ **Heavy Rain:**64.5to115.5mm;**Very Heavy Rain:**115.6to204.4mm;**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, 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