



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

**Press Release
Date: 30th March, 2023
Time of Issue: 1315 hours IST**

Subject: Rainfall with thunderstorm/hailstorm over Northwest & East India during next 2 days.

Weather observed during past 24 hours ending at 0830 hrs IST of today: Refer Annexure 1

Weather Forecast and Warnings (Graphics in Annexure II):

- ❖ A **Western Disturbance** as a trough lies over Afghanistan and adjoining Pakistan in mid-tropospheric levels.
- ❖ A cyclonic circulation lies over southwest Rajasthan in lower tropospheric levels.
- ❖ A trough/wind discontinuity from Chhattisgarh to Tamil Nadu in lower tropospheric levels.
- ❖ The other trough from Sub-Himalayan West Bengal to north Odisha in lower tropospheric levels.
- ❖ **Under the influence of above synoptic features, following weather is expected:**

Northwest India: • Scattered to widespread **rainfall/thunderstorm, lightning/gusty winds** very likely over the region during 30th March-01st April.

• Isolated **hailstorm** over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Delhi and East Rajasthan on 30th & 31st March; over West Rajasthan on 30th March and over Uttar Pradesh on 31st March.

• Isolated **heavy rainfall** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand on 31st March.

East India: Scattered to widespread **rainfall/thunderstorm, lightning/gusty winds** very likely over the region during 31st March-02nd April.

• Isolated **hailstorm** likely over Bihar, Jharkhand, West Bengal & Sikkim and Odisha on 31st March.

Northeast India: • Scattered to widespread light/moderate rainfall/**thunderstorm, lightning, gusty winds** very likely to continue over Northeast India during 30th March-03rd April.

• **Isolated heavy rainfall** likely over Assam & Meghalaya during 31st March- 02nd April; over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura on 01st & 02nd April.

Central India: Isolated **rainfall/thunderstorm, lightning/gusty winds** very likely over the region on 30th & 31st March.

South India: Light isolated rainfall/thunderstorm over the region during next 5 days except over Northern parts of Karnataka.

West India: Light isolated rainfall over the region on 30th & 31st March.

Maximum Temperatures Forecast during next 5 days:

- ❖ Maximum temperatures are below normal by 2-4° C over most parts of the country. It is likely to be below normal to near normal during next 5 days.
- ❖ **No heat wave likely over any part of country during next 5 days.**

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm on and over

- **30th March:** Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Rajasthan.
- **31st March:** Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Delhi, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Assam & Meghalaya.
- **01st April:** Uttarakhand

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.

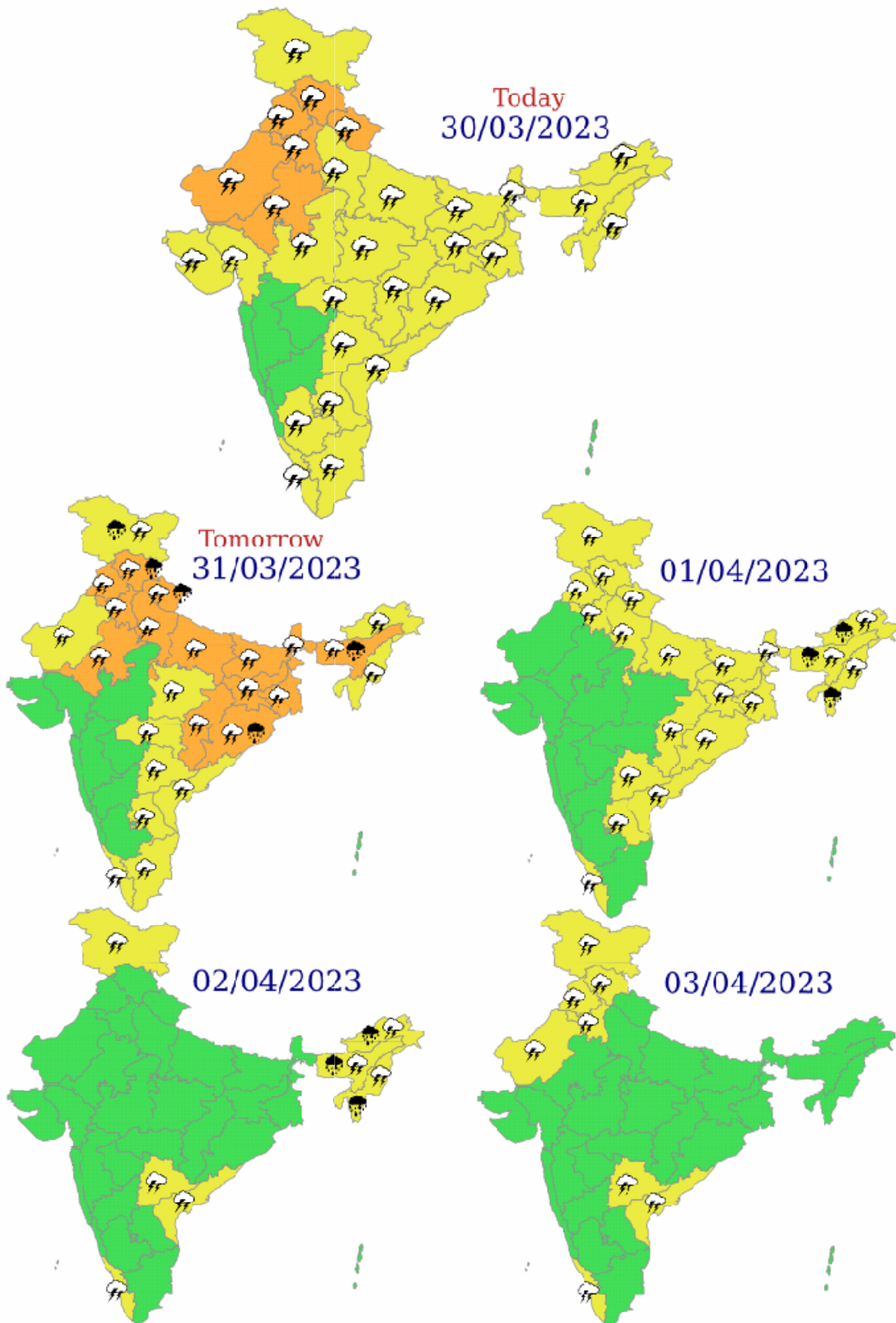
Advisory for farmers:

- Postpone harvesting of matured crops in Arunachal Pradesh, Punjab and Haryana; keep already harvested produce in a safe place or cover the heaps of already harvested produce in the field with tarpaulin sheets.
- Complete the harvesting of matured crops in Jammu, Uttar Pradesh, Uttarakhand and Rajasthan during clear weather; keep the harvest at safe place or cover the harvested produce in the fields.
- Postpone sowing of maize in Arunachal Pradesh.
- Make arrangements to 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 many places over** Arunachal Pradesh; at a few places over Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, **isolated places** over Assam & Meghalaya, West Bengal & Sikkim, Odisha, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, East Madhya Pradesh, Saurashtra & Kutch, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka & Yanam.
- ❖ **Heavy rainfall** occurred at isolated over Odisha and Kerala.
- ❖ **Thunderstorm** observed at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Gangetic West Bengal, Odisha, West Rajasthan, Chhattisgarh, Rayalaseema, South Interior Karnataka, Kerala & Mahe, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Hailstorm** observed at isolated places over Odisha.
- ❖ **Significant amount of rainfall (in cm):**
 - **ODISHA: Bhuvan (dist Dhenkanal) 8**, Thihidi (dist Bhadrak) and jenapur (dist Jajpur) 5 each.
 - **KERALA: Ambalavayal (Wayanad district) 7**, Kanjirappally (Kottayam district), Mannarkkad (Palakkad district), Vythiri (Wayanad district), Neryamangalam (Ernakulam district) 3 each.
 - **KARNATAKA: Mysuru pto (Mysuru) 3.**
 - **NMMT: Amarpur (dist Gomati) 3.**



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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State