



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 12<sup>th</sup> February, 2024

Time of Issue: 1230 hours IST

**Subject: Light to moderate rainfall with thunderstorm activity likely over Central India on 12<sup>th</sup> & 13<sup>th</sup> and East India during 13<sup>th</sup>-15<sup>th</sup> February, 2024.**

**Realized weather during past 24 hours till 0830 hours IST of today:**

- ❖ **Minimum temperatures:** Minimum temperatures are in the range of 7-12°C over most parts of northern plains. These are below normal by 2-4°C over many parts of northwest India and near normal over rest parts of north India. **Today, the lowest minimum temperature of 3.6°C reported at Amritsar (Punjab).**
- ❖ **Cold wave conditions** observed in isolated pockets over Himachal Pradesh.
- ❖ **Hailstorms** recorded at isolated places over East Madhya Pradesh, Vidarbha, Marathwada, Odisha and Chhattisgarh.
- ❖ **Light to moderate rainfall** occurred at some places over East Madhya Pradesh, Vidarbha, Chhattisgarh and isolated places over Marathwada, Telangana, Jharkhand, Odisha and West Madhya Pradesh.

**Weather Systems and Forecast & Warnings during next 5 days: (graphics in Annexure I)**

- ❖ Under the influence of a cyclonic circulation over Marathwada and another over south Vidarbha in lower tropospheric levels;
  - ✓ Isolated/scattered light to moderate rainfall accompanied with isolated thunderstorms & lightning activity very likely over East Madhya Pradesh, Chhattisgarh and Jharkhand during 12<sup>th</sup>-15<sup>th</sup>, Vidarbha on 12<sup>th</sup> & 13<sup>th</sup>; Bihar and West Bengal & Sikkim during 13<sup>th</sup>-15<sup>th</sup> February, 2024.
  - ✓ Light to moderate isolated rainfall also likely over Odisha on 12<sup>th</sup>, 14<sup>th</sup> & 15<sup>th</sup>; southwest Uttar Pradesh on 13<sup>th</sup> & 14<sup>th</sup> and over southeast Uttar Pradesh during 12<sup>th</sup> -14<sup>th</sup> February, 2024.
  - ✓ **Isolated Hailstorms also likely over East Madhya Pradesh & north Chhattisgarh on 12<sup>th</sup>; East Uttar Pradesh, Bihar & Jharkhand on 13<sup>th</sup> February, 2024.**
- ❖ A Western Disturbance as a trough in mid-tropospheric runs roughly along long. 60°E to the north of Lat. 30°N and a cyclonic circulation lies over Punjab in lower tropospheric levels. Under its influence; light isolated rainfall/snowfall very likely over Jammu-Kashmir, Himachal Pradesh on 12<sup>th</sup>; Uttarakhand on 13<sup>th</sup> and isolated light rainfall Punjab, Haryana, West Rajasthan on 12<sup>th</sup> February, 2024.
- ❖ A fresh Western Disturbance is likely to cause isolated to scattered rainfall/snowfall over Western Himalayan Region on 17<sup>th</sup> & 18<sup>th</sup> February, 2024.

**Minimum Temperature Forecast:**

- ❖ Gradual Rise in minimum temperatures by 2-4°C very likely over Northwest India during next 5 days. Gradual Rise in minimum temperatures by 2-3°C also very likely over many parts of East India during next 2 days and no significant change thereafter. No significant change in minimum temperatures likely over Central India during next 5 days.

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

**Impact expected and action suggested due to thunderstorm with lightning & Hailstorm:**

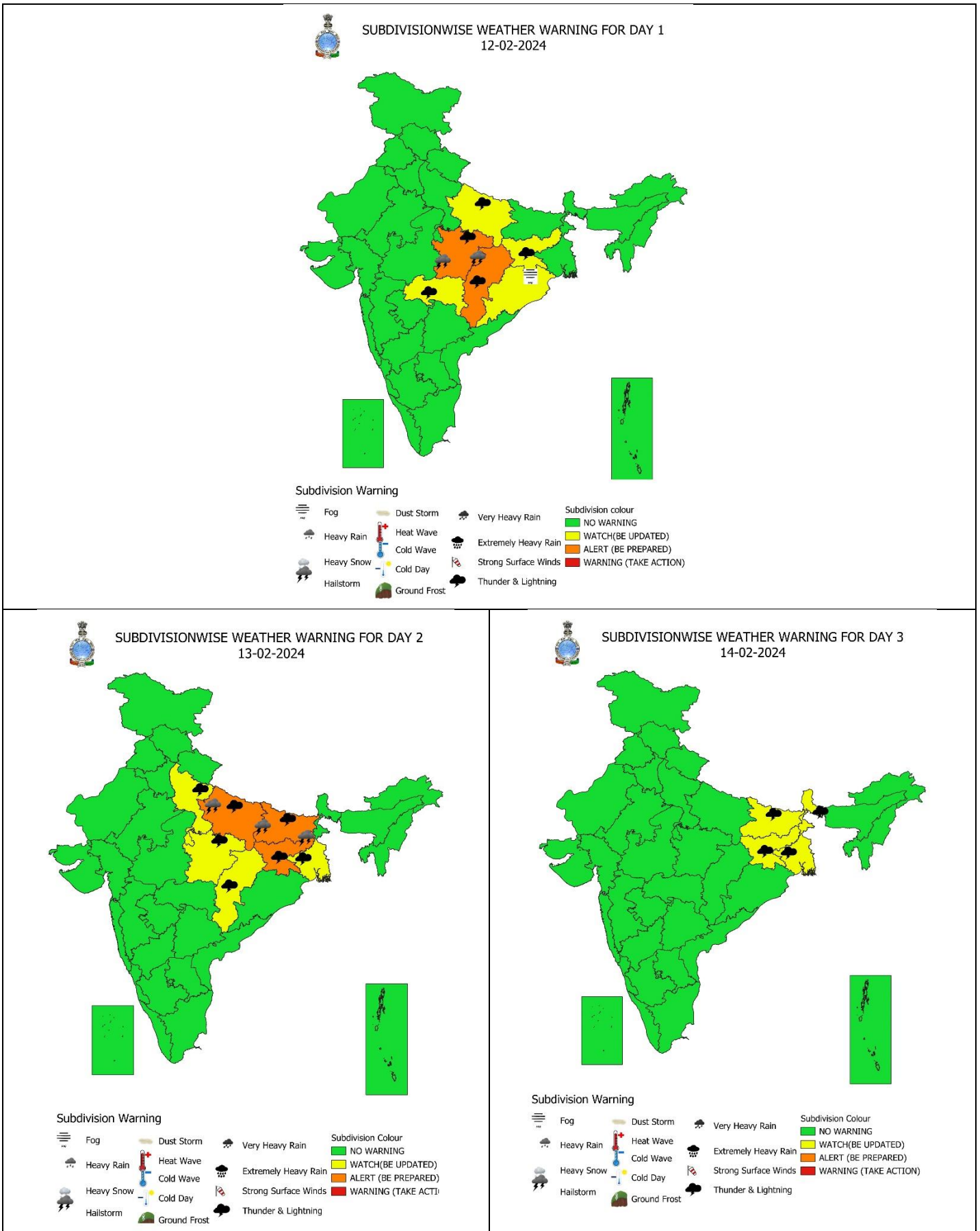
- ❖ **12<sup>th</sup> February:** East Madhya Pradesh, Chhattisgarh
- ❖ **13<sup>th</sup> February:** East Uttar Pradesh, Bihar, Jharkhand

**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.

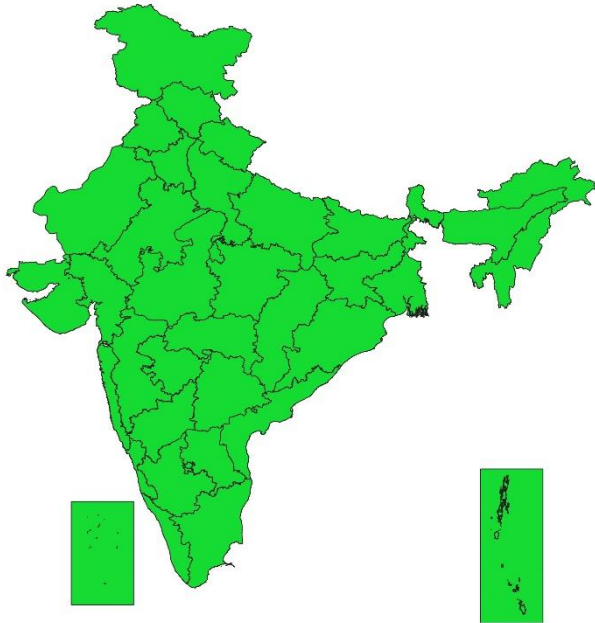
**Action suggested:**

- ❖ 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.





**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4**  
15-02-2024

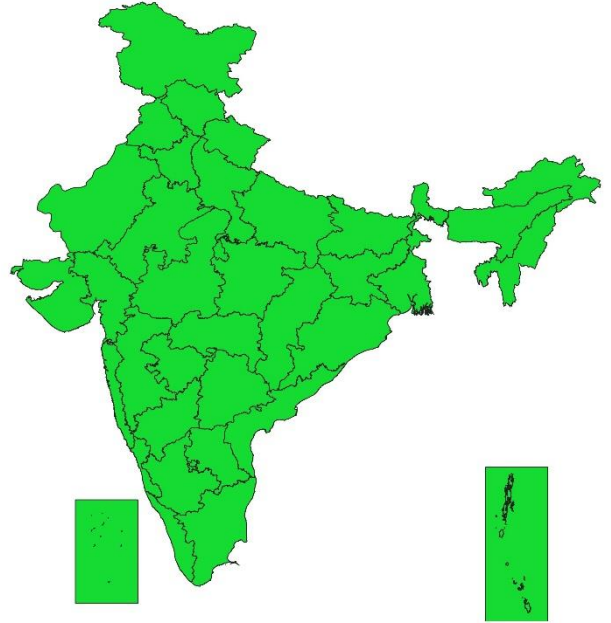


**Subdivision Warning**

- |              |            |                      |                           |
|--------------|------------|----------------------|---------------------------|
| Fog          | Dust Storm | Very Heavy Rain      | <b>Subdivision Colour</b> |
| Heavy Rain   | Heat Wave  | Extremely Heavy Rain | NO WARNING                |
| Heavy Snow   | Cold Wave  | Strong Surface Winds | WATCH(BE UPDATED)         |
| Hailstorm    | Cold Day   | Thunder & Lightning  | ALERT (BE PREPARED)       |
| Ground Frost |            |                      | WARNING (TAKE ACTION)     |



**SUBDIVISIONWISE WEATHER WARNING FOR DAY 5**  
16-02-2024



**Subdivision Warning**

- |              |            |                      |                           |
|--------------|------------|----------------------|---------------------------|
| Fog          | Dust Storm | Very Heavy Rain      | <b>Subdivision Colour</b> |
| Heavy Rain   | Heat Wave  | Extremely Heavy Rain | NO WARNING                |
| Heavy Snow   | Cold Wave  | Strong Surface Winds | WATCH(BE UPDATED)         |
| Hailstorm    | Cold Day   | Thunder & Lightning  | ALERT (BE PREPARED)       |
| Ground Frost |            |                      | WARNING (TAKE ACTION)     |

**Legends:**

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation
- ❖ **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-Himalayan 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)

Subdivision Warning	Dust Storm	Subdivision color
Heavy Rain	Strong Surface Winds	NO WARNING
Heavy Snow	Heat Wave	WATCH(BE UPDATED)
Thunderstorms & Lightning	Cold wave	ALERT (BE PREPARED)
Hailstorm	Fog	WARNING (TAKE ACTION)

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

Flash Flood Risk	
	High Risk (Take Action)
	Moderate Risk (Be Prepared)
	Low Risk (Be Updated)