

Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 27<sup>th</sup> February, 2024

Time of Issue: 1230 hours IST

- Subject: (i) An active Western Disturbance likely to affect Western Himalayan Region from 29<sup>th</sup> February and plains of northwest India from 01<sup>st</sup> March to 03<sup>rd</sup> March, 2024.**  
**(ii) Rainfall activity accompanied with thunderstorm, hailstorm & lightning likely to continue over Central & adjoining East India on 27<sup>th</sup> February, 2024.**

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

- ❖ **Light to moderate rainfall/snowfall** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and at isolated places over Arunachal Pradesh, Himachal Pradesh and Uttarakhand.
- ❖ **Light to moderate rainfall** at a few places over Vidarbha; at isolated places over Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Chhattisgarh, Madhya Maharashtra, Marathwada and Tamil Nadu.
- ❖ **Heavy rainfall** occurred at isolated places over East Madhya Pradesh.
  - ❖ **Significant rainfall (in cm): East Madhya Pradesh:** Chand (dist Chindwara) 7, Bichhua (dist Chindwara) 4, Chindwara (dist Chindwara) 3; **West Madhya Pradesh:** Godadongri (dist Betul) 5, Burhanpur (dist Burhanpur) 3, Jhirnya (dist Khargone) 3.

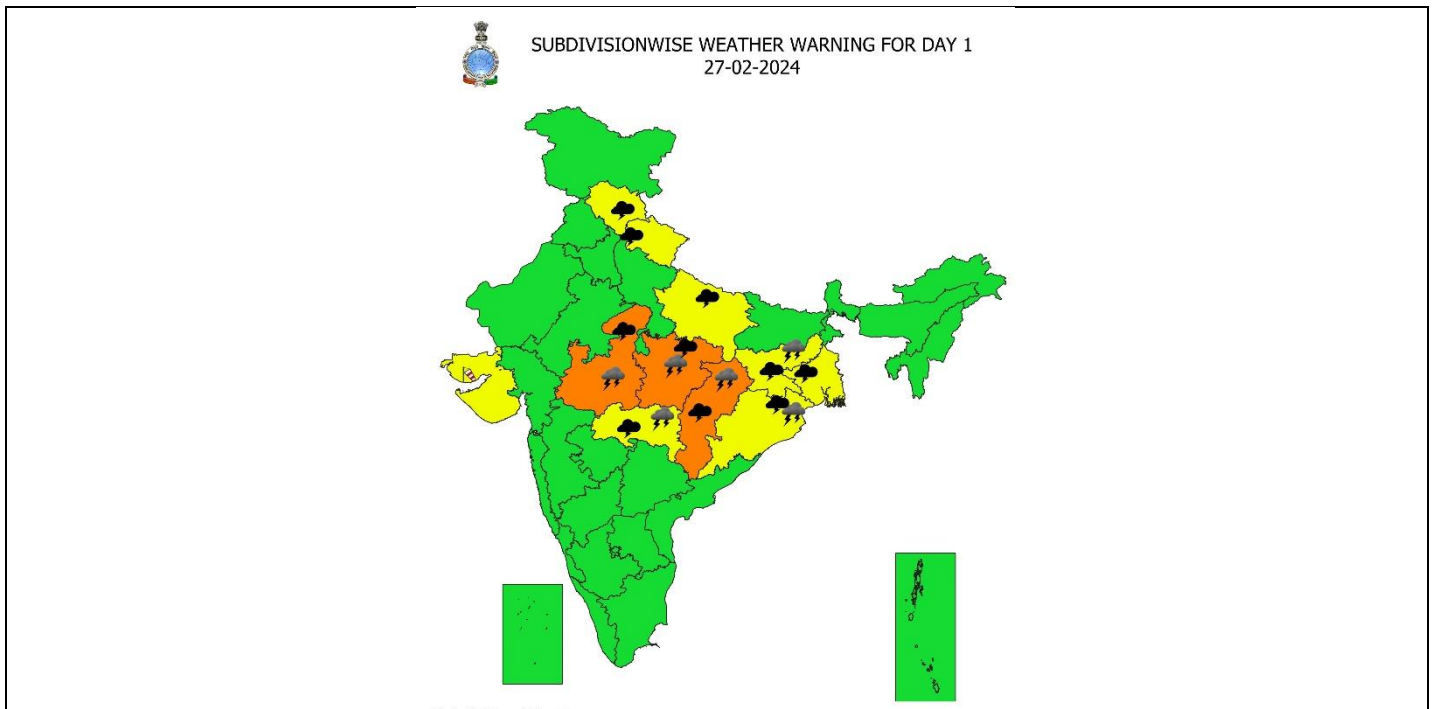
**Weather Systems and Forecast & Warnings during next 5 days: (Annexure I)**

- ❖ **An active Western Disturbance likely to affect Western Himalayan Region from 29<sup>th</sup> February and plains of northwest India from 1<sup>st</sup> March to 3<sup>rd</sup> March with peak intensity on 1<sup>st</sup> & 2<sup>nd</sup> March, 2024. High moisture feeding from Arabian Sea to northwest India is also likely during 1<sup>st</sup> to 2<sup>nd</sup> March. Under its influence:**
  - **Fairly widespread to widespread light/moderate rainfall accompanied with thunderstorms & lightning very likely over Western Himalayan Region during 1<sup>st</sup> – 3<sup>rd</sup> March, 2024.**
  - Scattered to fairly widespread light/moderate rainfall accompanied with **thunderstorms & lightning** very likely over Punjab, Haryana-Chandigarh-Delhi and isolated to scattered light/moderate rainfall over Uttar Pradesh, Rajasthan on 1<sup>st</sup> & 2<sup>nd</sup> March, 2024.
  - **Isolated heavy rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 1<sup>st</sup> and isolated heavy to very heavy rainfall/snowfall on 2<sup>nd</sup> March 2024. Isolated heavy rainfall/snowfall also**

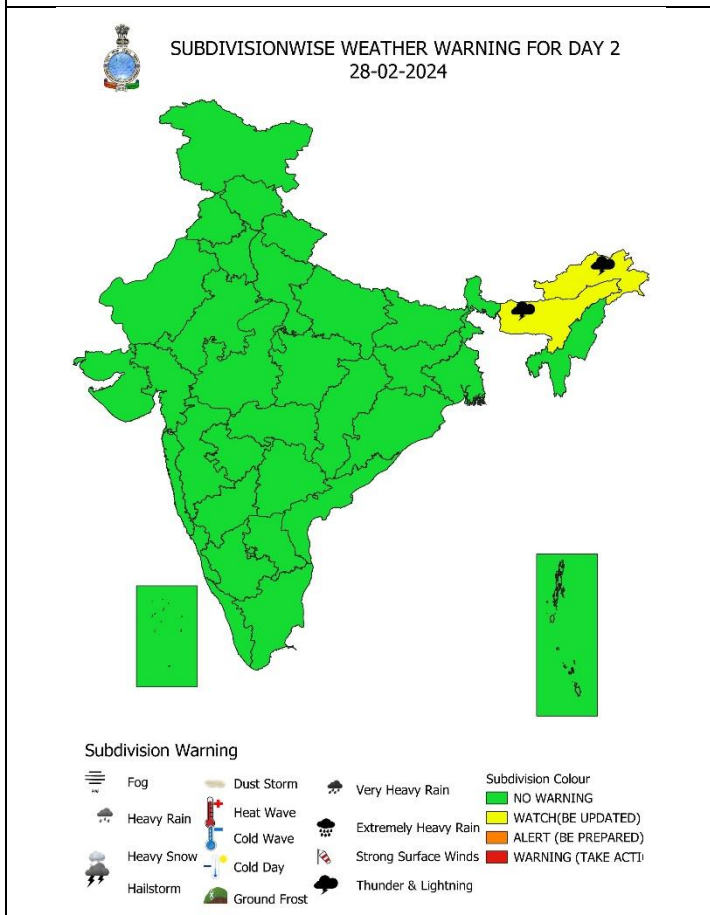
***very likely over Uttarakhand and isolated heavy rainfall over Punjab on 02<sup>nd</sup> March, 2024.***

- **Hailstorm activity also very likely at isolated places over Himachal Pradesh and Uttarakhand on 1<sup>st</sup> & 2<sup>nd</sup> March; Rajasthan on 1<sup>st</sup> March and over Haryana-Chandigarh, Punjab and West Uttar Pradesh on 2<sup>nd</sup> March, 2024.**
- ❖ Isolated to scattered light/moderate rainfall accompanied with **thunderstorms, lightning, hailstorms and gusty winds** (speed reaching 40-50 kmph) very likely over Madhya Pradesh, Chhattisgarh, Vidarbha, Odisha, Jharkhand and Gangetic West Bengal on 27<sup>th</sup> February 2024.
- ❖ A Cyclonic circulation lies over northeast Bangladesh and neighbourhood in lower tropospheric levels. Under its influence:
  - ❖ Isolated to scattered light/moderate rainfall/snowfall very likely over Arunachal Pradesh during next 6-7 days.
  - ❖ Isolated light/moderate rainfall over the Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 28<sup>th</sup> February, 2024.
- ❖ **Hot and humid weather** very likely to prevail over Rayalaseema during next 5 days and over Kerala during next 3 days.

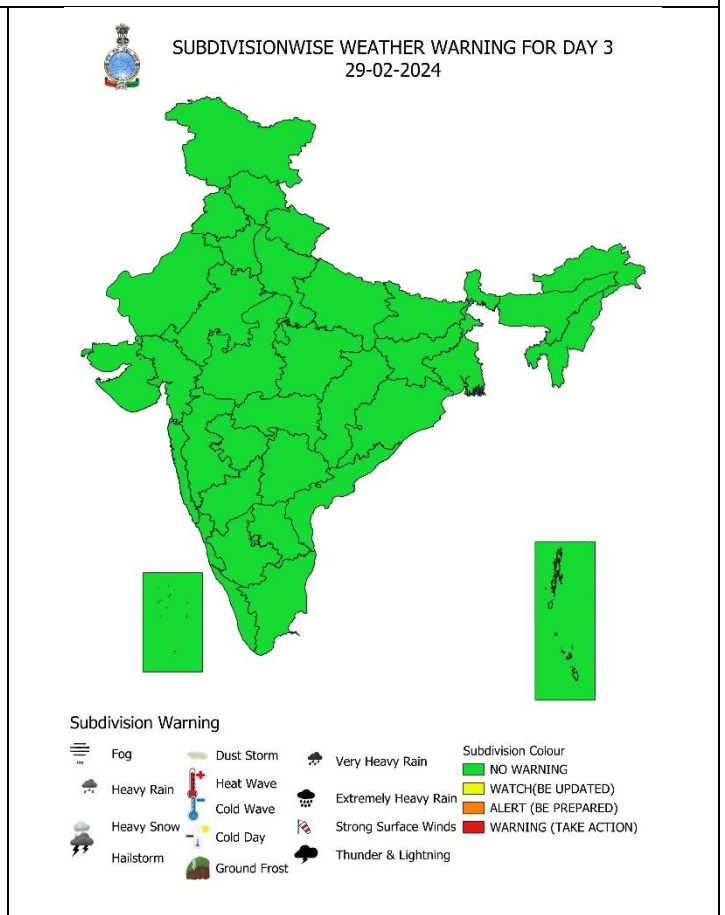
**For more details, kindly refer: [https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)**



- 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)     |



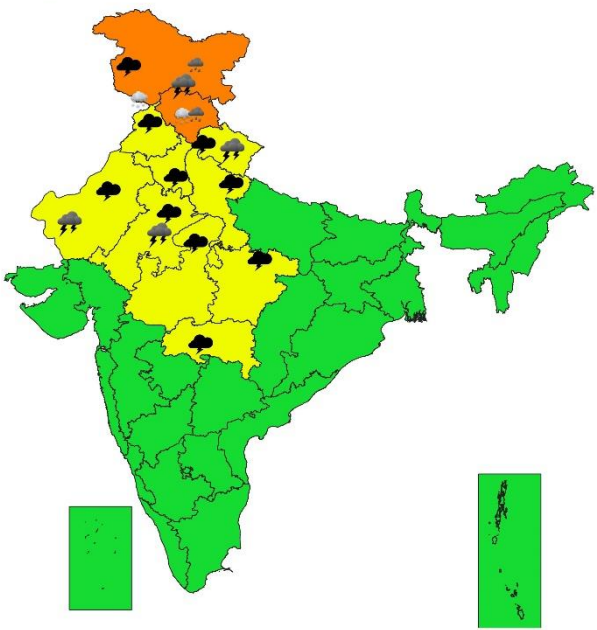
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- Subdivision Warning**
- |            |              |                      |                           |
|------------|--------------|----------------------|---------------------------|
| Fog        | Dust Storm   | Very Heavy Rain      | <b>Subdivision 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 4**  
01-03-2024

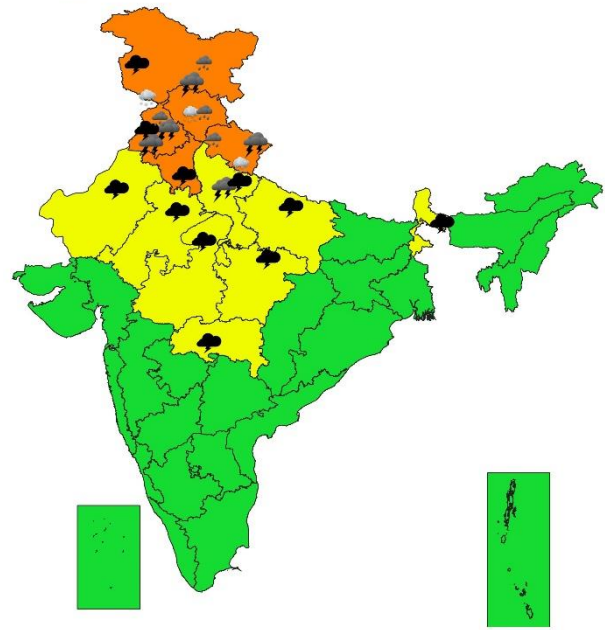


**Subdivision Warning**

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**  
02-03-2024



**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)

**Impact expected and action suggested due to thunderstorm with lightning/gusty winds & Hailstorm** over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha on 27<sup>th</sup> February and over Himachal Pradesh, Uttarakhand on 1<sup>st</sup> & 2<sup>nd</sup> March; Rajasthan on 1<sup>st</sup> March and over Haryana-Chandigarh, Punjab and West Uttar Pradesh on 2<sup>nd</sup> March, 2024.

**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.

**Impact & Action Suggested due to heavy rainfall/snowfall over** Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 1<sup>st</sup> & 2<sup>nd</sup> and Uttarakhand on 2<sup>nd</sup> March, 2024.

**Impacts Expected for Rain/Snow**

- Disruption of Electricity.
- Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nallahs.
- Disruption of traffic flow.
- Damage to Kuccha and unsecured structures.

**Suggested Actions**

- Avoid roadway underpasses, drainage ditches, low lying areas and areas where water collects – they can unexpectedly flood or overflow.
- Stay away from power lines or electrical wires.
- Don't stay in kuchcha houses during heavy rainfall as it may collapse anytime soon
- Drive carefully.

**Legends & abbreviations:**

- ❖ **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; **PTO:** Part Time Office.

❖ **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.

<b>SPATIAL DISTRIBUTION</b> (% 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)

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

<b>Flash Flood Risk</b>	
	High Risk (Take Action)
	Moderate Risk (Be Prepared)
	Low Risk (Be Updated)