



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.

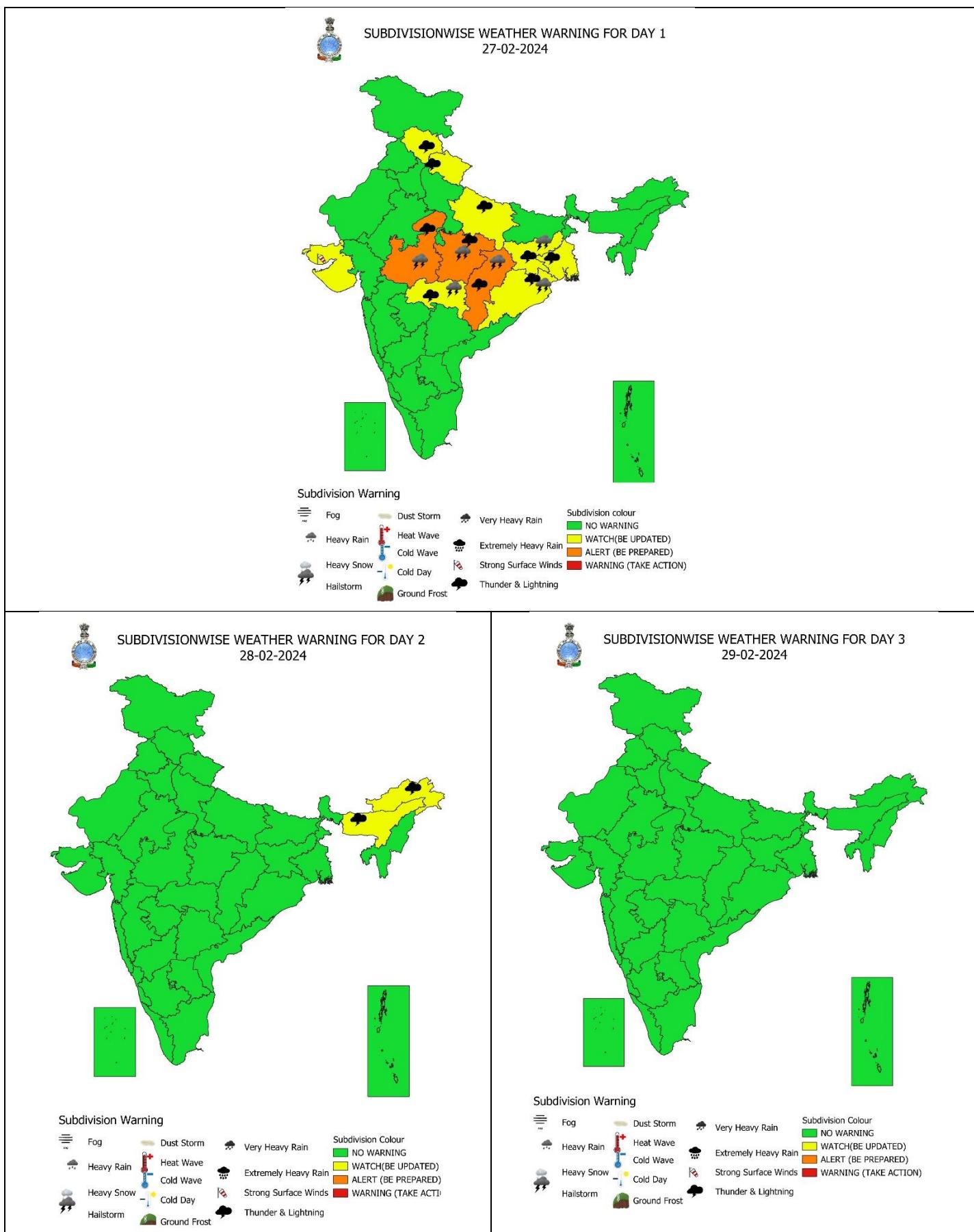
**Weather Systems and Forecast & Warnings during next 5 days: (Annexure I)**

- ❖ 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.***

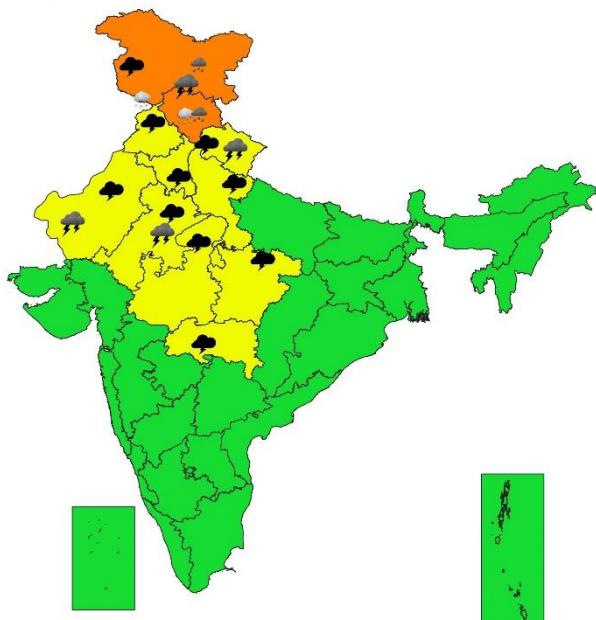
- Hailstorm activity also very likely at isolated places over Himachal Pradesh and Uttarakhand on 1<sup>st</sup> & 2<sup>nd</sup> March; Rajasthan on 1<sup>st</sup> March and over Haryana-Chandigarh, Punjab and West Uttar Pradesh on 2<sup>nd</sup> March, 2024.
- ❖ Isolated to scattered light/moderate 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\\_forcast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php)





SUBDIVISIONWISE WEATHER WARNING FOR DAY 4  
01-03-2024

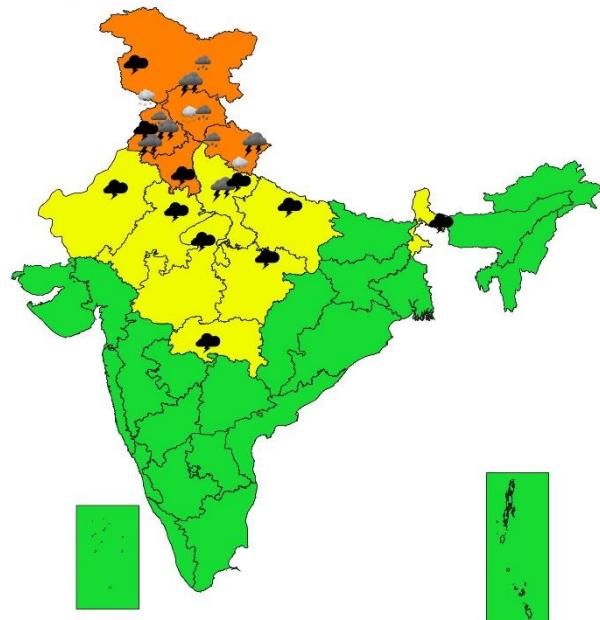


Subdivision Warning

	Fog		Dust Storm		Very Heavy Rain		Subdivision Colour
	Heavy Rain		Heat Wave		Extremely Heavy Rain		Subdivision Colour
	Heavy Snow		Cold Wave		Strong Surface Winds		Subdivision Colour
	Hailstorm		Cold Day		Thunder & Lightning		Subdivision Colour
	Ground Frost						



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5  
02-03-2024



Subdivision Warning

	Fog		Dust Storm		Very Heavy Rain		Subdivision Colour
	Heavy Rain		Heat Wave		Extremely Heavy Rain		Subdivision Colour
	Heavy Snow		Cold Wave		Strong Surface Winds		Subdivision Colour
	Hailstorm		Cold Day		Thunder & Lightning		Subdivision Colour
	Ground Frost						

**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.

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 Widespred (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		Flash Flood Risk	
Terms	Probability of Occurrence (%)		
Unlikely	< 25		High Risk (Take Action)
Likely	25 - 50		Moderate Risk (Be Prepared)
Very Likely	50 - 75		Low Risk (Be Updated)
Most Likely	> 75		