



Press Release

Date: 01st March, 2024

Time of Issue: 1345 hours IST

Subject: Intense spell of rainfall/snowfall over Western Himalayan Region and rainfall over plains of northwest India till 03rd March with peak intensity on 01st & 02nd March, 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, Arunachal Pradesh; at isolated places over Himachal Pradesh.
- ❖ **Light to moderate rainfall** at many places over; at a few places over, Jharkhand, Gangetic West Bengal, Odisha; at isolated places over Punjab, Madhya Pradesh, Vidarbha, Bihar, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Konkan & Goa, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

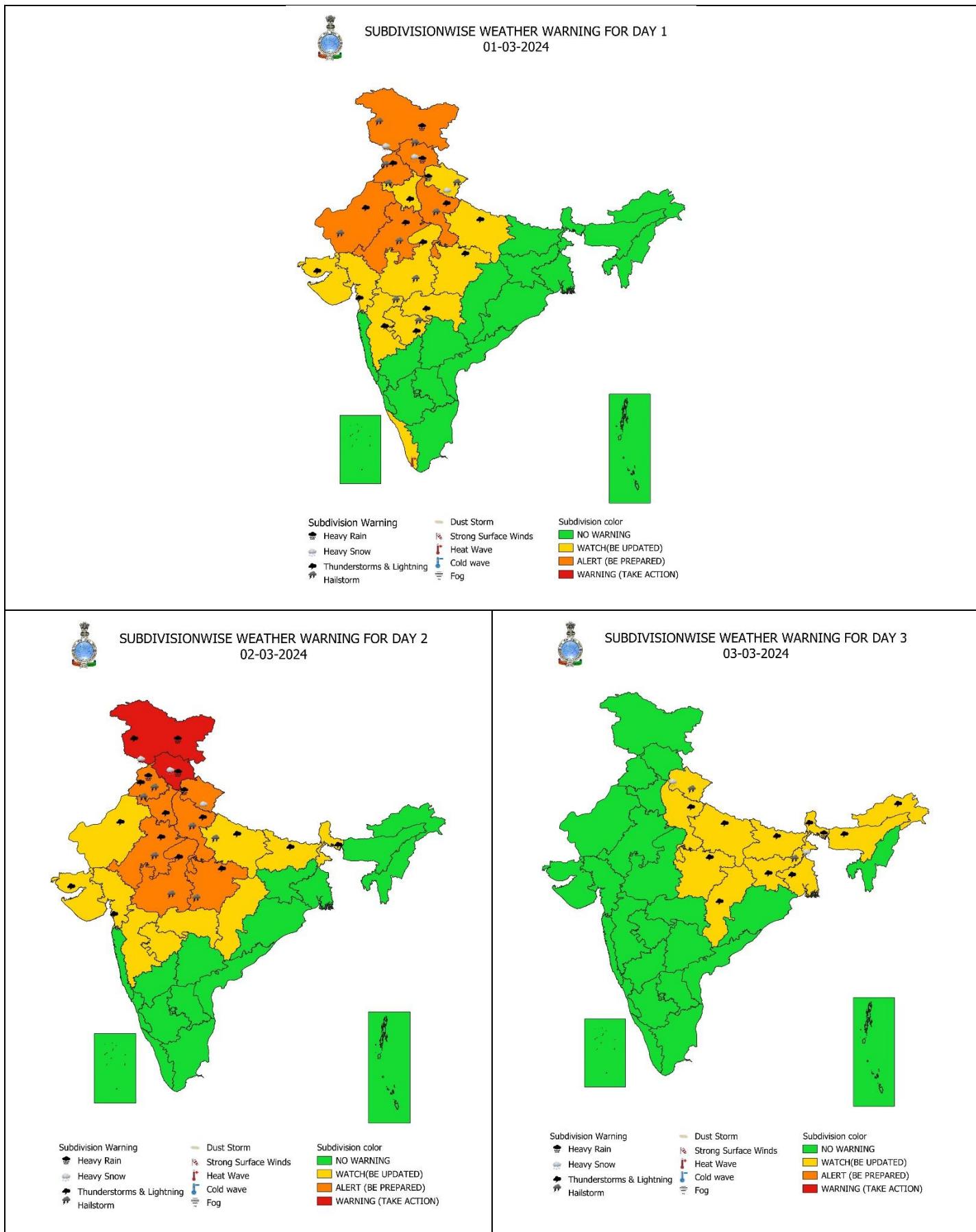
Weather Systems and Forecast & Warnings during next 5 days: (Annexure I)

- ❖ **A Western Disturbance as a cyclonic circulation lies over northwest Afghanistan & neighbourhood and a trough runs from this cyclonic circulation to Northwest Arabian Sea in lower & middle tropospheric levels. An induced cyclonic circulation lies over southwest Rajasthan & adjoining Pakistan in lower tropospheric levels. High moisture feeding is taking place from Arabian Sea to northwest India and is likely to continue till 03rd March. Under their influence:**
 - **Fairly widespread to widespread light/moderate rainfall accompanied with thunderstorms & lightning very likely over Western Himalayan Region till 03rd March, 2024.**
 - **Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorms, lightning & gusty winds (30-40 kmph gusting to 50 kmph) very likely over Punjab, Haryana-Chandigarh-Delhi and isolated to scattered light/moderate rainfall over Uttar Pradesh, Rajasthan and north Madhya Pradesh during 01st-03rd March, 2024.**
 - ***Isolated heavy to very heavy rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh and isolated heavy rainfall/snowfall also very likely over Uttarakhand on 01st & 02nd March. Isolated heavy rainfall over Punjab on 02nd March, 2024.***
 - **Hailstorm activity also very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Rajasthan on 01st; Punjab, Haryana, Chandigarh, West Uttar Pradesh, north Madhya Pradesh,**

East Rajasthan on 01st & 02nd March and over East Uttar Pradesh on 02nd March, 2024.

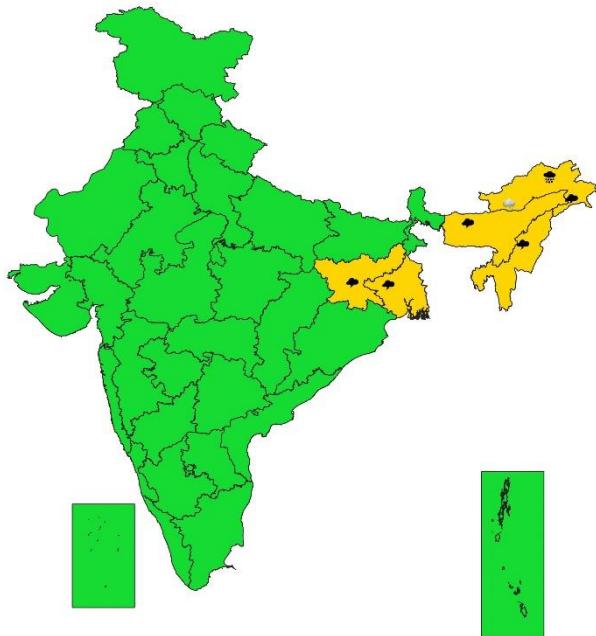
- ❖ Due to trough or confluence of winds at lower tropospheric levels, isolated light/moderate rainfall accompanied with **thunderstorms, lightning** very likely over Madhya Maharashtra, Marathwada, Vidarbha on 01st & 02nd; Chhattisgarh during 02nd-05th; over Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim during 02nd-04th; Gangetic West Bengal and Odisha on 03rd & 04th March, 2024. Isolated **hailstorm** also likely over Madhya Maharashtra, Marathwada on 01st & 02nd; Vidarbha and Chhattisgarh on 02nd March.
- ❖ A cyclonic circulation lies over Northeast Assam in lower tropospheric levels. Under its influence and eastward movement of current Western Disturbance:
 - ❖ Isolated to scattered light/moderate rainfall/snowfall very likely over Arunachal Pradesh during next 7 days. Isolated **heavy rainfall/snowfall** likely over Arunachal Pradesh on 04th & over Sikkim on 03rd March, 2024.
 - ❖ Isolated light/moderate rainfall accompanied with **thunderstorms, lightning** likely over the Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 03rd-06th March, 2024.
- ❖ **Hot and humid weather** very likely to prevail over Kerala on 01st March, 2024 and improve thereafter.

For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php





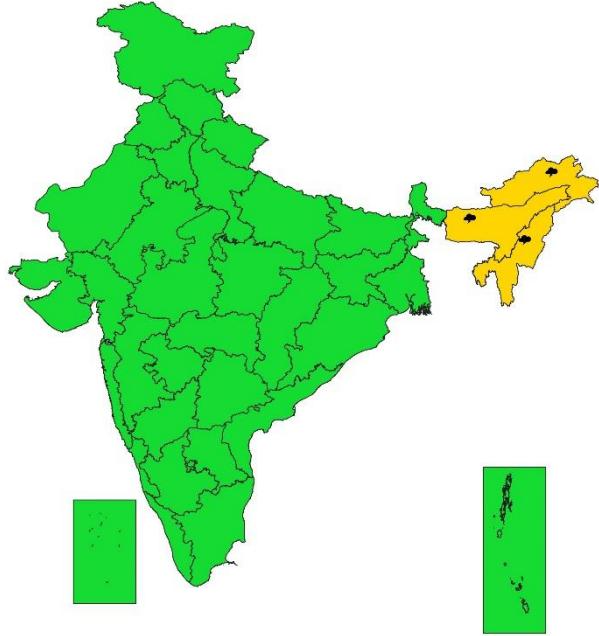
SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
04-03-2024



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)



SUBDIVISIONWISE WEATHER WARNING FOR DAY-5
05-03-2024



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)

Agromet advisories for Heavy rainfall, Gusty winds and hailstorms likely over various parts of the country

(Based on the IBF and advisories issued by different AMFUs and DAMUs)

- ❖ Harvest the matured wheat, jowar and gram in Madhya Maharashtra and Marathwada; mustard in North Rajasthan and Madhya Pradesh as early as possible and keep the harvested produce at safer places.
- ❖ Use hail nets or hail caps in fruit orchards to protect them from mechanical damage and provide mechanical support to horticultural crops & staking to vegetables in Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, North Rajasthan, Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Marathwada and Vidarbha.
- ❖ Make necessary arrangements for draining out excess water from crop fields to avoid water stagnation in Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab and Sikkim.
- ❖ Keep harvested produce in safe places.

➤ **Impact expected and action suggested due to thunderstorm with lightning/gusty winds & Hailstorm** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Rajasthan on 01st; Punjab, Haryana, Chandigarh, West Uttar Pradesh, East Rajasthan, north Madhya Pradesh on 01st & 02nd March and over East Uttar Pradesh on 02nd 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 and Uttarakhand on 01st & 02nd 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 Kuchcha 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 Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

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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)