



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Date: 25<sup>th</sup> February, 2025  
Time of Issue: 2045 hours IST

**Special Message (No.- 4)**

FROM: INDIA METEOROLOGICAL DEPARTMENT  
TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS CONTROL  
ROOM NDMA  
SECRETARY, MOES  
DIRECTOR GENERAL, DOORDARSHAN DIRECTOR  
GENERAL, AIR  
PIB MOES  
CHIEF SECRETARY, GOVT. OF JAMMU & KASHMIR  
CHIEF SECRETARY, GOVT. OF LADAKH  
CHIEF SECRETARY, GOVT. OF HIMACHAL PRADESH  
CHIEF SECRETARY, GOVT. OF UTTARAKHAND  
CHIEF SECRETARY, GOVT. OF PUNJAB  
CHIEF SECRETARY, GOVT. OF HARYANA  
CHIEF SECRETARY, GOVT. OF CHANDIGARH  
CHIEF SECRETARY, GOVT. OF DELHI  
CHIEF SECRETARY, GOVT. OF RAJASTHAN  
CHIEF SECRETARY, GOVT. OF UTTAR PRADESH

**Subject: An active Western Disturbance is likely to cause heavy rainfall/snowfall over Jammu & Kashmir during 25<sup>th</sup>-28<sup>th</sup>, Himachal Pradesh during 26<sup>th</sup>-28<sup>th</sup> and Uttarakhand on 27<sup>th</sup> & 28<sup>th</sup> February. It is also likely to cause isolated to scattered light to moderate rainfall over plains of northwest India during 25<sup>th</sup> to 28<sup>th</sup> February, 2025.**

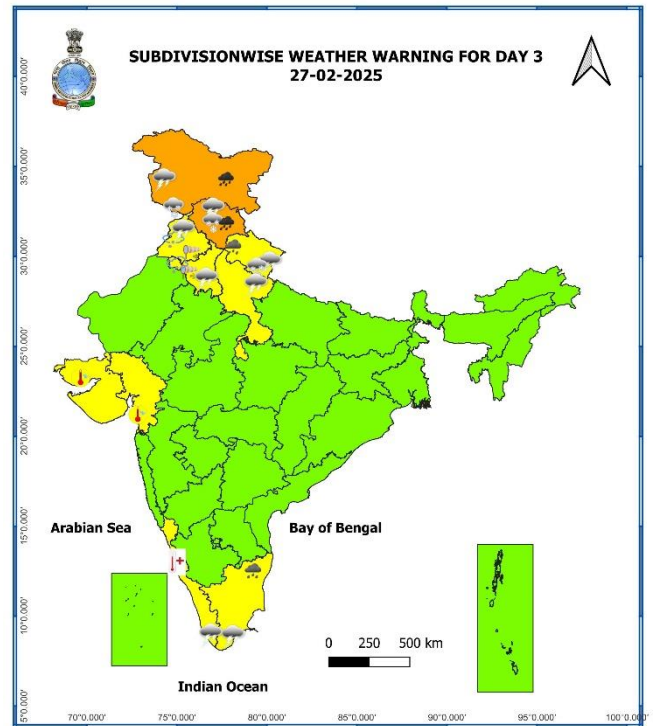
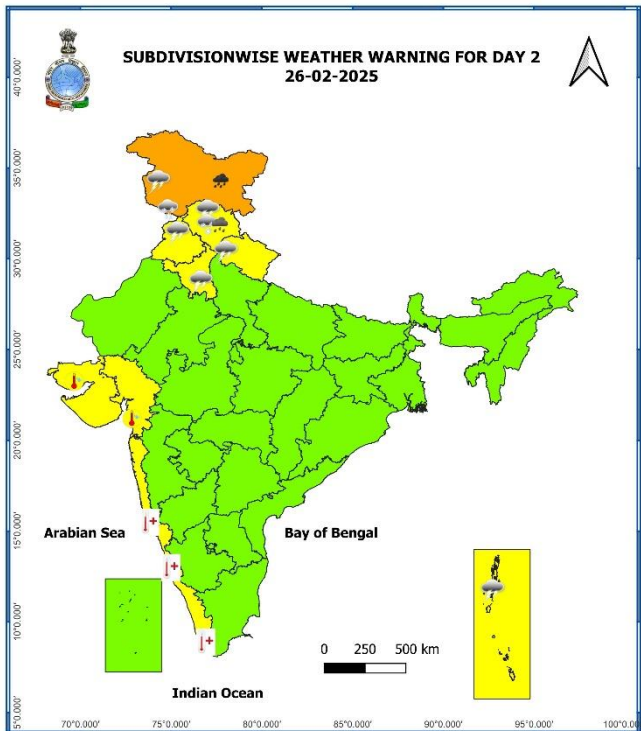
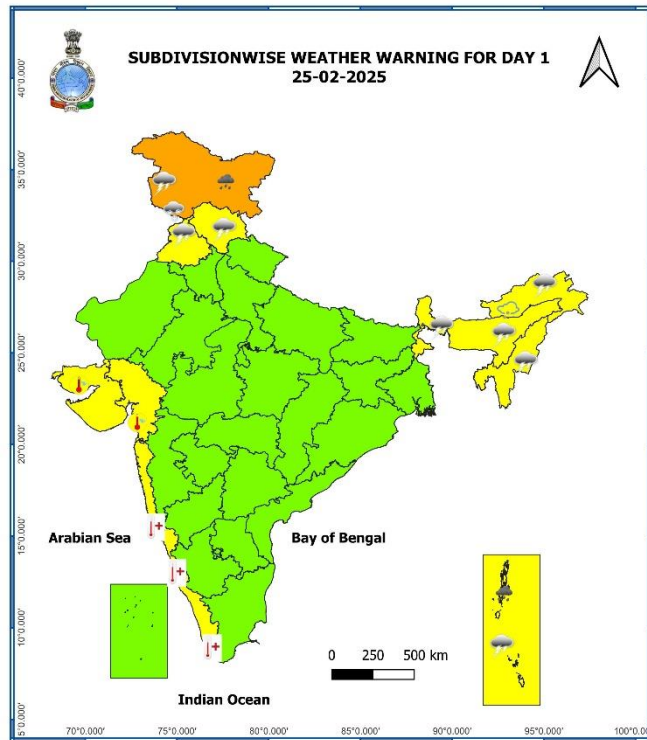
**Weather Systems and Forecast & Warnings during next 7 days: (Annexure I)**

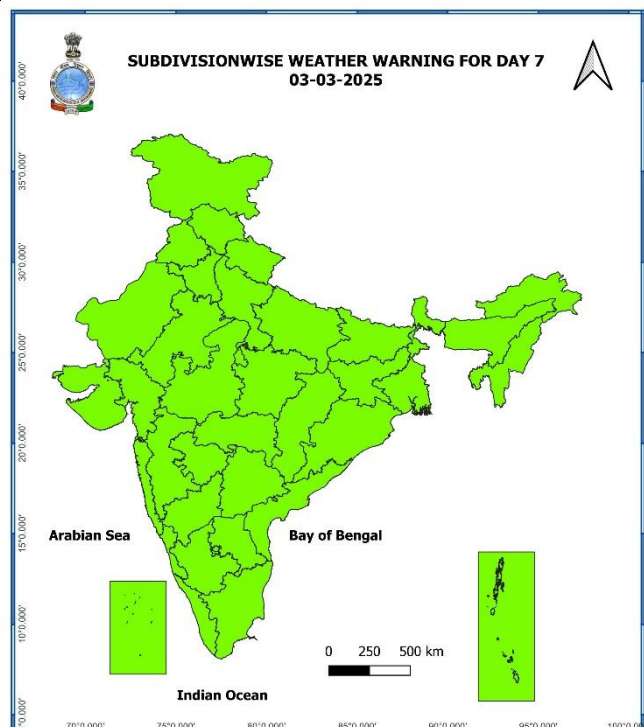
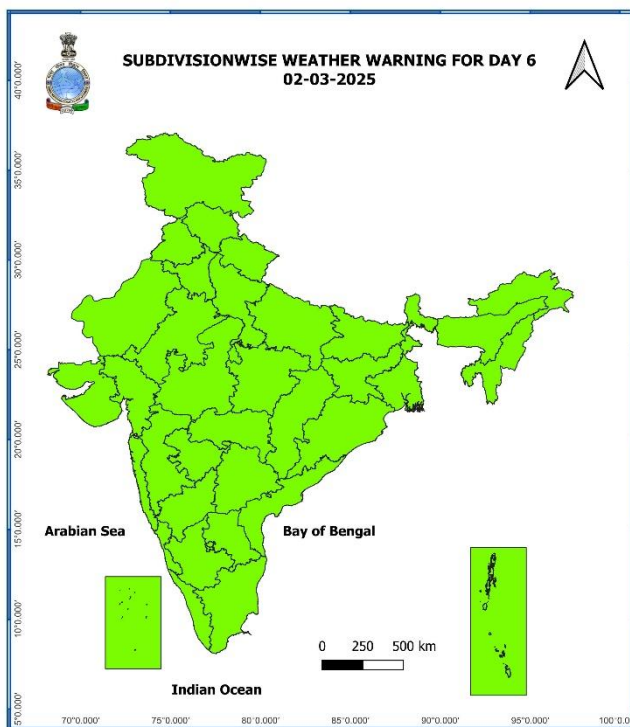
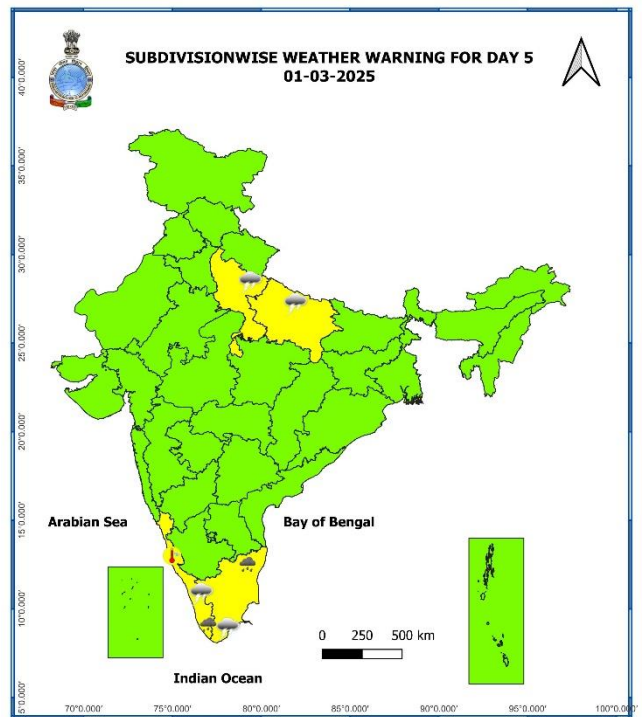
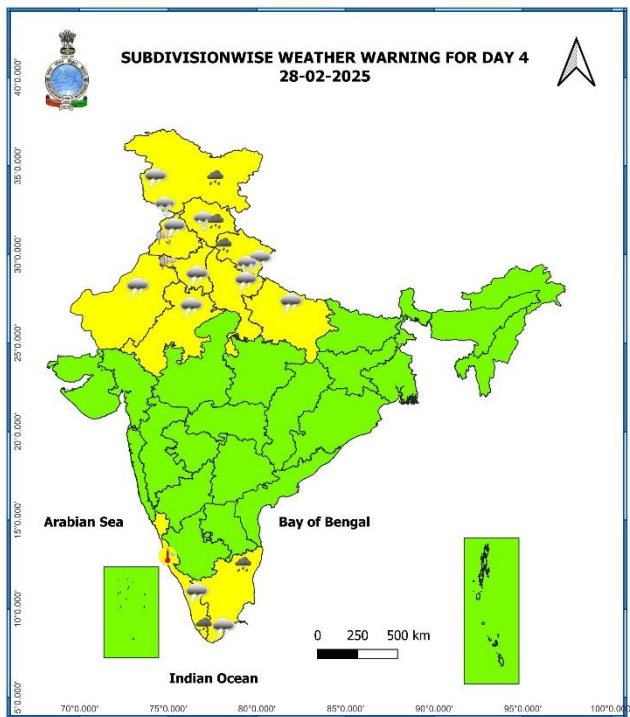
- ❖ A Western Disturbance as a trough in lower to upper tropospheric levels with its axis at 3.1 km above mean sea level roughly along Long. 50°E to the north of Lat. 24°N. Under its influence, an induced low pressure area likely to form over West Rajasthan & adjoining Pakistan area during next 24 hours. There is divergence of the order of  $20-30 \times 10^{-6} \text{ s}^{-1}$  in forward sector of the trough over North Pakistan and adjoining Indian Himalayas. High moisture feeding is also likely over Western Himalayan Region in lower tropospheric levels from Arabian Sea mainly during 25<sup>th</sup> -28<sup>th</sup> February, 2025. As a result:
  - ✓ **Fairly widespread to widespread** light to moderate rainfall/snowfall accompanied with thunderstorm & lightning likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh during 25<sup>th</sup>-28<sup>th</sup>; Uttarakhand during 26<sup>th</sup>-28<sup>th</sup> February.
  - ✓ **Heavy rainfall/snowfall** at isolated places likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 25<sup>th</sup>-28<sup>th</sup>, Himachal Pradesh during 26<sup>th</sup>-28<sup>th</sup> and Uttarakhand on 27<sup>th</sup> & 28<sup>th</sup> February with isolated **very heavy rainfall/snowfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 26<sup>th</sup> & 27<sup>th</sup> & Himachal Pradesh on 27<sup>th</sup> February.
  - ✓ **Isolated to scattered** light to moderate rainfall likely over Punjab, Haryana, Chandigarh and West Rajasthan during 25<sup>th</sup> February-01<sup>st</sup> March; West Uttar Pradesh on 27<sup>th</sup> & 28<sup>th</sup> February; East Uttar Pradesh on 28<sup>th</sup> February & 01<sup>st</sup> March; East Rajasthan during 27<sup>th</sup> February-01<sup>st</sup> March with **gusty winds (speed 30-40 kmph)** very likely over Punjab & Haryana on 27<sup>th</sup> & 28<sup>th</sup> February. Thunderstorm & lightning activity also likely over Punjab during 25<sup>th</sup> -28<sup>th</sup> February; Haryana during 26<sup>th</sup>-28<sup>th</sup>; West Uttar Pradesh during 27<sup>th</sup> February-01<sup>st</sup> March; East Uttar Pradesh and Rajasthan on 28<sup>th</sup> February.
  - ✓ **Isolated Hailstorm activity also likely over Punjab and Haryana on 27<sup>th</sup> February.**

The state-wise forecast & warnings are given at ANNEXURE I.

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)

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## **Impact & Action Suggested due to heavy rainfall/ snowfall over Jammu & Kashmir during 25<sup>th</sup> -28<sup>th</sup>, Himachal Pradesh during 26<sup>th</sup>-28<sup>th</sup> and Uttarakhand on 27<sup>th</sup> & 28<sup>th</sup> February.**

### **A. Impact Expected**

- ❖ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- ❖ Minor damage to kutchha roads.
- ❖ Possibilities of damage to vulnerable structure.
- ❖ Localized Landslides/Mudslides
- ❖ Damage to horticulture and standing crops in some areas due to inundation.
- ❖ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

### **B. Action Suggested**

- ❖ Check for traffic congestion on your route before leaving for your destination.
- ❖ Follow any traffic advisories that are issued in this regard.
- ❖ Avoid going to areas that face the water logging problems often.
- ❖ Avoid staying in vulnerable structure.

## **Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over Northwest India during 25-28<sup>th</sup> February.**

### **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 kutchha 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.

### **Agromet advisories for likely impact of Heavy Rainfall / Snowfall**

- Complete harvesting of matured rapeseed in **Uttarakhand** and cole crops in **Himachal Pradesh**.
- Make provision for draining out excess water from the standing crop fields in **Jammu and Kashmir, Himachal Pradesh and Uttarakhand**. In case of heavy snowfall, shake the fruit bearing trees to remove snow immediately from the branches.
- Keep the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields.
- Provide mechanical support to horticultural crops and staking to vegetables for avoiding lodging.














### **Livestock**




- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.

### 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)

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		