



**Government of India**  
**Ministry of Earth Sciences**  
**India Meteorological Department**

**Press Release**

**Date: 25<sup>th</sup> January, 2022**

**Time of Issue: 1300 hrs IST**

**Subject: I) Cold Day conditions over plains of Northwest India during next 2 days and Madhya Pradesh during 4 days**

**II) Cold Wave conditions over most parts of Northwest India and parts of Central India during next 4-5 days**

**Weather Observed during past 24 hours ending at 0830 hrs IST of today:**

- **Rainfall (in cm): Coastal Andhra Pradesh:** Vizianagaram-5.
- **Cold Day to Severe Cold Day conditions** prevailed in some parts of Himachal Pradesh, West Madhya Pradesh, North Rajasthan and Uttarakhand and **Cold Day conditions** in isolated pockets over Haryana, Chandigarh & Delhi, East Madhya Pradesh, West Uttar Pradesh and Gujarat State.
- Minimum temperatures are above normal by 2-4°C over many parts of Bihar, Jharkhand, Gangetic West Bengal, at isolated places over Odisha, north Chhattisgarh and below normal by 2-4°C over many parts of south Rajasthan, Gujarat, West Madhya Pradesh, Maharashtra and by 4-6°C at isolated places over West Madhya Pradesh, Maharashtra and Saurashtra & Kutch.
- **Dense to Very Dense Fog** in some pockets of Punjab; in isolated pockets of Jammu division, Uttarakhand, West Uttar Pradesh and West Rajasthan and **Dense Fog** in isolated pockets of Haryana.

**Synoptic Situations:**

- A Western Disturbance as a cyclonic circulation lies over northwest Uttar Pradesh in lower tropospheric levels. The trough aloft in mid & upper tropospheric westerlies runs roughly along Long. 77°E to the north of Lat. 32°N.
- A cyclonic circulation lies over Comorin area & neighbourhood and a trough runs from south Tamilnadu to Rayalaseema in lower tropospheric levels.
- A fresh Western Disturbance is very likely to affect Western Himalayan Region from 29<sup>th</sup> January, 2022.

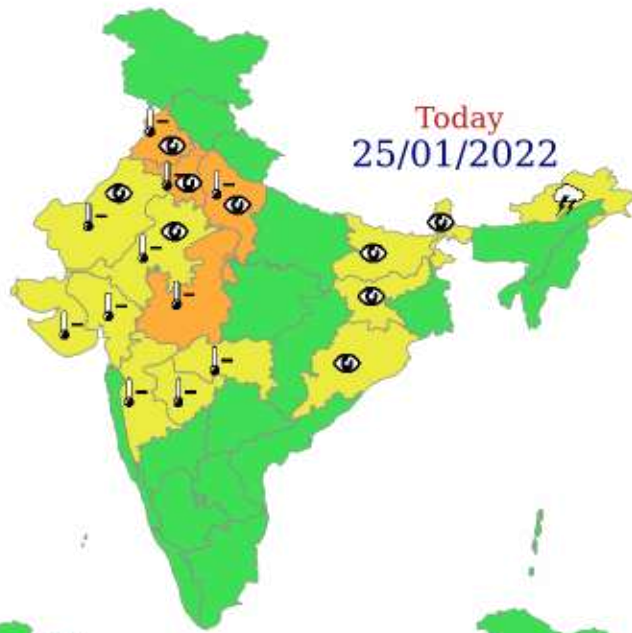
### Forecast & Warnings:

- ✓ Isolated light rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 25<sup>th</sup> and over Himachal Pradesh & Uttarakhand on 25<sup>th</sup> & 26<sup>th</sup> and dry weather thereafter for subsequent 3 days.
- ✓ Scattered light/moderate rainfall very likely over Sub-Himalayan West Bengal & Sikkim on 25<sup>th</sup> & 26<sup>th</sup> and isolated rainfall thereafter. Isolated light rainfall very likely over Bihar, Jharkhand, Gangetic West Bengal and Odisha during next 2 days and isolated light rainfall over Andaman & Nicobar Islands during next 4 days.
- ✓ Scattered to fairly widespread light/moderate rainfall very likely over Northeast India during 25<sup>th</sup>-27<sup>th</sup> January and reduction thereafter.
- ✓ Under the influence of a fresh Western Disturbance from 29<sup>th</sup> January, 2022, light isolated to scattered rainfall/snowfall is likely over Western Himalayan Region from 29<sup>th</sup> to 31<sup>st</sup> January, 2022.

### Fog and Cold Day:

- ✓ Gradual fall in minimum temperatures by 3-5°C very likely over most parts of Northwest India during next 4 days and gradual rise by 2-3°C thereafter.
- ✓ Gradual fall in minimum temperatures by 3-5°C very likely over most parts of Central India during next 2 days and no significant change thereafter.
- ✓ Fall in minimum temperatures by 3-5°C very likely over East India during next 5 days.
- ✓ No significant change in minimum temperatures very likely over Gujarat state and Maharashtra during next 3-4 days and gradual rise by 2-4°C thereafter.
- ✓ **Dense/very dense fog conditions** in night/morning hours in isolated pockets very likely over Punjab, Haryana & West Uttar Pradesh during next 2 days; **Dense fog conditions** in isolated pockets very likely over north Rajasthan, Odisha during next 2 days and over Bihar, Jharkhand and Sub-Himalayan West Bengal & Sikkim on 26<sup>th</sup> January.
- ✓ **Cold day** in some parts with **Severe Cold day conditions** in isolated pockets very likely over West Madhya Pradesh during next 3-4 days; **Cold day to severe cold day conditions** in some parts over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh during next 2 days. **Cold day** conditions in some parts over East Madhya Pradesh during 26<sup>th</sup>-28<sup>th</sup> and in isolated pockets over north Madhya Maharashtra, Marathawada and Gujarat state during next 2 days.
- ✓ **Cold wave/severe Cold wave conditions** in isolated pockets very likely over Madhya Pradesh during next 5 days; over Punjab, Haryana-Chandigarh, Rajasthan during next 3-4 days; over Uttar Pradesh during 27<sup>th</sup>-30<sup>th</sup>; over north Madhya Maharashtra, Marathawada, Gujarat state during next 2 days and over Odisha on 29<sup>th</sup> & 30<sup>th</sup> January.

For more details refer: [https://mausam.imd.gov.in/imd\\_latest/contents/subdivisionwise-warning.php](https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php)



- **Impact expected and action suggested due to Very Dense fog in the night/morning hours very likely** over Punjab, Haryana & West Uttar Pradesh during next 2 days; **Dense fog** in isolated pockets over north Rajasthan, Odisha during next 2 days; over Bihar, Jharkhand and Sub-Himalayan West Bengal & Sikkim on 26<sup>th</sup> January.

**Impact expected:**

- **Transport and Aviation:**
  - May affect some airports, highways and railway routes in the areas of met- sub-division.
  - Difficult driving conditions with slower journey times.
  - Some road traffic collisions
- **Power Sector:**
  - Chances of Tripping of Power lines in the very dense fog routes
- **Human Health:**
  - Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath
  - Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
  - Causes Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

**Action suggested:**

- **Transport and Aviation:**
  - Careful while driving or outing through any transport.
  - Use fog lights during driving.
  - Be in touch with airlines and Railway and State transport for schedule of your journey.
- **Power Sector:**
  - To keep ready Maintenance Team
- **Human Health:** To avoid outing until unless emergency and to cover the face

- ✓ **Impact expected and action suggested due to Cold Day/Severe Cold Day conditions** in some parts over Madhya Pradesh during next 5 days; in isolated pockets over Punjab, Haryana-Chandigarh, East Rajasthan during next 4 days; over West Rajasthan during next 3 days; over Uttar Pradesh during 27<sup>th</sup>-30<sup>th</sup> and over north Madhya Maharashtra, Marathwada, Gujarat state during next 2 days.

**Impact expected:**

- An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.
- Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.
- Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

**Action suggested:**

- Wear several layers of loose fitting, light weight; warm woolen clothing.
- Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm woolen clothing rather than one layer of heavy cloth.
- Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- Avoid or limit outdoor activities.
- Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.
- Warm the affected area of the body slowly with lukewarm water; do not rub the skin vigorously.
- If the affected skin area turns black, immediately consult a doctor.
- Maintain ventilation while using Heaters to avoid inhaling toxic fumes.
- Take safety measures while using electrical and gas heating devices.
- Extreme care needed for vulnerable people.
- Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- Protect livestock from cold weather. (For details kindly refer NDMA guidelines: [https://ndma.gov.in/Resources/awareness/Cold\\_Wave](https://ndma.gov.in/Resources/awareness/Cold_Wave))

## Legends:

**Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

### Region wise classification of meteorological Sub-Divisions:

- 1) **Northwest India:** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **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)



WARNING	
WARNING (TAKE ACTION)	
ALERT (BE PREPARED)	
WATCH (BE UPDATED)	
NO WARNING (NO ACTION)	

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

