



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

**Press Release**

**Date: 17<sup>th</sup> January, 2022**

**Time of Issue: 1230 hrs IST**

**Subject:**

- I. Cold day to severe cold day conditions over Northwest & Central India during next 24 hours and gradually abate thereafter.**
- II. A fresh Western Disturbance likely to affect Northwest India from 21<sup>st</sup> January, 2022.**

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

- **Rainfall (in cm): Tamilnadu: Nilgiris: Coonoor-6, Kothagiri-3, Tiruvallur: Ambathur-6, Nagapattinam-4, Villupuram: Marakkanam-4, Coastal Andhra Pradesh: Nellore-3**
- Minimum temperatures are normal over most parts of Northwest India and above normal over Madhya Pradesh.
- **Very dense Fog** prevailed in isolated pockets over Haryana, Rajasthan, Madhya Pradesh, Bihar and Madhya Maharashtra and **Dense Fog** in isolated pockets over Marathawada, Chhattisgarh and East Uttar Pradesh.
- **Cold Day conditions** in many parts with **Severe Cold Day Conditions** in isolated pockets over West Madhya Pradesh and East Rajasthan; **Cold Day to Severe Cold Day conditions** in some parts of Uttar Pradesh and East Madhya Pradesh and in isolated pockets over Punjab and northwest Rajasthan and **Cold Day conditions** in some parts of Haryana & Delhi.

**Synoptic Situations:**

- A cyclonic circulation now lies over Kerala & neighbourhood in lower tropospheric levels.
- A fresh Western Disturbance likely to affect Western Himalayan Region from the night of 18<sup>th</sup> January 2022.
- **A fresh active Western Disturbance is likely to affect Northwest India from 21<sup>st</sup> January onwards. An induced cyclonic circulation is very likely to form over southwest Rajasthan on 22<sup>nd</sup> January, 2022.**

**Forecast & Warnings:**

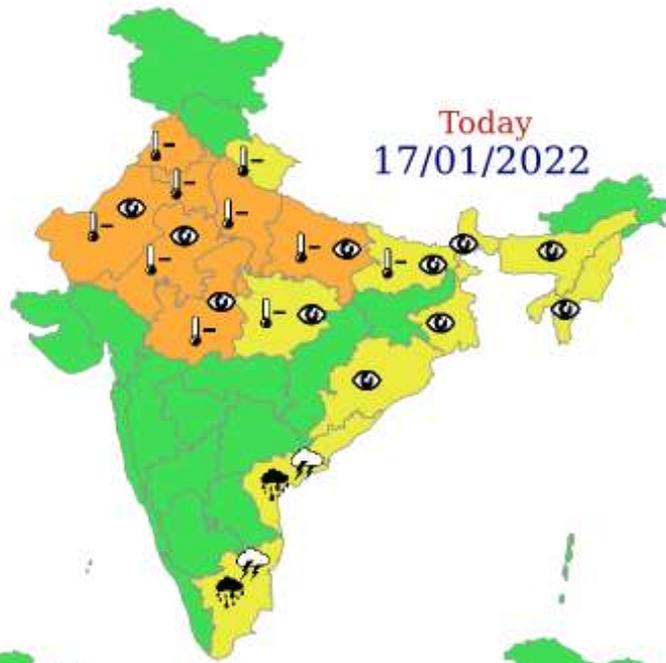
- ✓ Isolated light/moderate rainfall over north Coastal Andhra Pradesh, Rayalaseema, interior Tamilnadu and Kerala & Mahe during next 2-3 days. Light to moderate rainfall at a few places with **isolated heavy rainfall** likely over north coastal Tamilnadu, Puducherry and adjoining south coastal Andhra Pradesh during next 24 hours.
- ✓ Scattered to fairly widespread light/moderate rainfall over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 20<sup>th</sup>-21<sup>st</sup> January.

- ✓ Isolated light precipitation over Western Himalayan Region during 17<sup>th</sup> -20<sup>th</sup> January, 2022.
- ✓ Scattered to widespread rainfall/snowfall likely over Western Himalayan Region during 21<sup>st</sup> to 23<sup>rd</sup> January, 2022
- ✓ Scattered to fairly widespread rainfall likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and north Rajasthan during 21<sup>st</sup> to 23<sup>rd</sup> January with maximum intensity on 22<sup>nd</sup> January.
- ✓ Isolated hailstorm activity is also likely over East Rajasthan and West Madhya Pradesh on 21<sup>st</sup> night & 22<sup>nd</sup> January, 2022.

#### **Fog, Cold Day and Cold wave:**

- ✓ Minimum temperatures are likely to rise by 2-4° C over Northwest India during next 5 days.
- ✓ **Dense to Very Dense Fog** in isolated parts in night/morning hours very likely over Rajasthan, East Uttar Pradesh, West Madhya Pradesh, Bihar, Odisha and West Bengal during next 2 days.
- ✓ **Cold Day to Severe Cold Day Conditions** in some/isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh and Rajasthan during next 2 days and abate thereafter.

**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 Dense/Very Dense fog in the night/morning hours very likely** over Rajasthan, East Uttar Pradesh, West Madhya Pradesh, Bihar, Odisha and West Bengal during next 2 days.

### **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/isolated parts over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh and Rajasthan 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)



Heavy Rain



Strong Winds



Thunderstorm with Lightning



Visibility/Fog



Cold wave/Cold day



Frost

### 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