

# Government of India Ministry of Earth Sciences India Meteorological Department

Press Release Date: 25<sup>th</sup> December, 2023 Time of Issue: 1300 hours IST

Subject: (i) Dense to very dense fog likely to continue over Northwest & parts of adjoining Central India during next 3-4 days.

(ii)A fresh spell of light to moderate rainfall likely over Coastal Tamil Nadu from 30<sup>th</sup> December 2023 to 01<sup>st</sup> January 2024.

(iii) Wet Spell likely over Northwest & adjoining Central India during 30th December 2023 to 02nd January 2024.

# Realized weather during past 24 hours till 0830 hours IST of today:

- **Minimum temperatures** are in the range of 6-10°C over most parts of Punjab, Haryana-Chandigarh-Delhi & West Uttar Pradesh and 11-12°C over most parts of Rajasthan, East Uttar Pradesh, north Madhya Pradesh and some parts of Chhattisgarh & Jharkhand. These are 2-3°C above normal over some parts of Punjab, West Rajasthan, Uttar Pradesh, North Odisha and Madhya Pradesh; over many parts of Bihar, Jharkhand, Gangetic West Bengal, Gujarat and northeast India.
- Fog Observed (at 0830 hours IST of today): Very dense fog (visibility: 0-50 meters) in isolated pockets of Punjab, Delhi, Rajasthan, Madhya Pradesh, Uttar Pradesh; dense fog (visibility: 50-200 meters) in isolated pockets of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana, Meghalaya and Moderate fog (visibility: 200-500 meters) in isolated pockets of Delhi, Andhra Pradesh, Uttar Pradesh.
- Visibility Recorded (at 0830 IST of today) (≤500 meters): Punjab: Amritsar (airport)-0, Amritsar-25, Patiala-25; Rajasthan: Jaisalmer (airport)-0, Ganganagar-50, Churu-50, Jaislamer-50, Kota-200, Bikaner-500, Udaipur-500; Delhi: Palam (airport)-0, Safdarjung-200; Uttar Pradesh: Agran & Prayagraj (airport)-0, Jhansi-500, Lucknow-500; Madhya Pradesh: Gwalior (airport)-0; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad: Srinagar-50; Haryana & Chandigarh: Karnal 50, Ambala 50; Hissar-200, Chandigarh-500; Meghalaya: Barapani-50; Andhra Pradesh: Ongole-200, Nandigama-500, Bapatla-500, Anantapur-500.

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

# **Dense fog warning:**

- **Dense to very dense fog** conditions very likely to continue in early hours/morning hours in some pockets of Punjab, Haryana, Chandigarh, Delhi and Uttar Pradesh during 26<sup>th</sup>-28<sup>th</sup> and over Rajasthan & north Madhya Pradesh on 26<sup>th</sup> & 27<sup>th</sup> and over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 26<sup>th</sup> December.
- **Dense Fog** conditions very likely to continue in early hours/morning hours in isolated pockets over Odisha on 26<sup>th</sup> & 27<sup>th</sup>; Uttarakhand during 26<sup>th</sup> -28<sup>th</sup>; Jammu-Kashmir on 27<sup>th</sup> & 28<sup>th</sup>; Punjab, Haryana, Chandigarh, Delhi and Uttar Pradesh on 29<sup>th</sup> & 30<sup>th</sup> and over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 26<sup>th</sup>-30<sup>th</sup> December.

#### **Rainfall Forecast:**

• Under the influence of strong Northeasterly winds, a fresh spell of light to moderate rainfall likely over Coastal Tamil Nadu from 30th December 2023 to 01st January 2024.

- A fresh Western Disturbance is likely to affect Northwest India from 29th December. Under the influence of its interaction with lower level easterly winds, it is likely to cause a Wet Spell over Northwest & adjoining Central India during 30th December-02nd January 2024.
- Light to moderate rainfall at isolated places very likely over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep during next 5 days.
- Light to moderate rainfall at isolated places very likely over Northeast India today, the 25th December.

### **Minimum Temperatures Forecast:**

• No significant change in Minimum Temperatures likely over most parts of the country during next 3-4 days.

For more details kindly refer: https://mausam.imd.gov.in/responsive/all\_india\_forcast\_bulletin.php

**Impact expected due to <u>dense to very dense fog</u> in the early hours/morning hours** over Punjab, Haryana, Chandigarh, Delhi and Uttar Pradesh during 26<sup>th</sup>-28<sup>th</sup> and over Rajasthan & north Madhya Pradesh on 26<sup>th</sup> & 27<sup>th</sup> and over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 26<sup>th</sup> December.

# 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.
- Unless taken precautionary measures, it may lead to 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.
- 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.

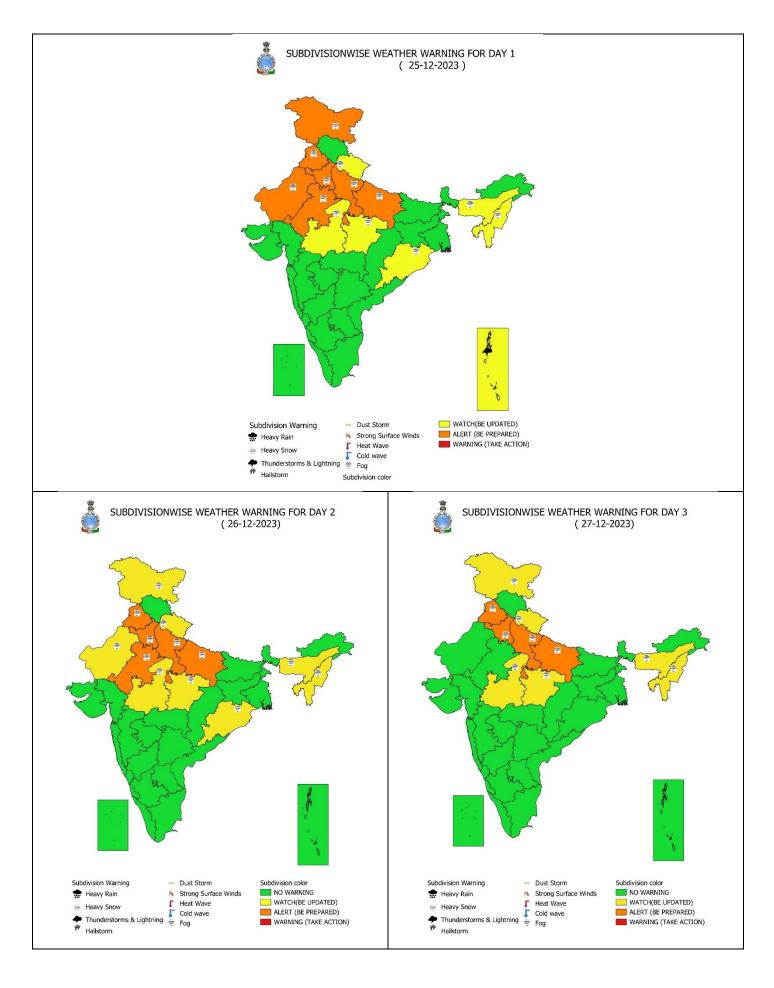
### **Action suggested:**

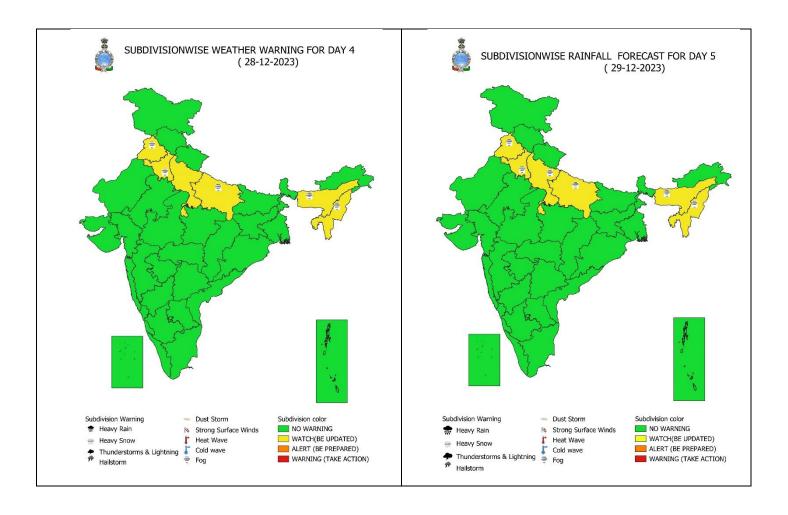
### **\*** Transport and Aviation:

- Be careful while driving or outing through any transport.
- Use fog lights during driving.
- Be in touch with airlines, railways and state transport for schedule of your journey.

# Power Sector:

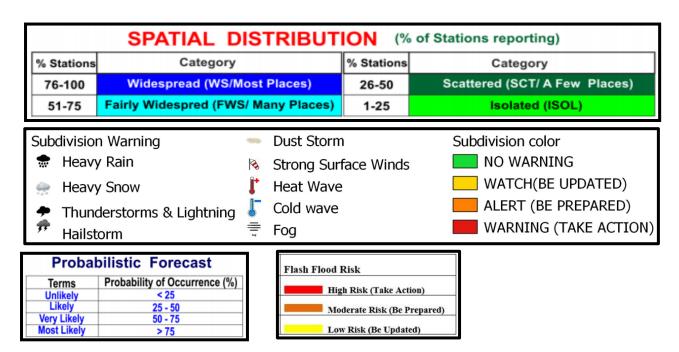
- To keep ready Maintenance Team
- Human Health: To avoid outing until unless emergency and to cover the face.





## Legends:

- **♦ Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.
- ❖ Obsy: Observatory; AWS: Automatic Weather Station; dist: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation
- **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.



## **Definition of Cold wave, Cold Day and Fog Conditions:**

