

2026-01-18

Time of Issue: 13:27:00 hours IST  
(Mid-Day)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and warning:

- Isolated to scattered Light to moderate rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh during 18<sup>th</sup> -21<sup>st</sup>; and fairly widespread to widespread rainfall/snowfall during 22<sup>nd</sup> -24<sup>th</sup> with **isolated heavy falls** over Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and higher reaches of Himachal Pradesh on 23<sup>rd</sup> January.
- Isolated to scattered Light to moderate rainfall/snowfall also likely over Uttarakhand on 18<sup>th</sup>, 21<sup>st</sup> and 22<sup>nd</sup> and fairly widespread during 23<sup>rd</sup>-24<sup>th</sup> January.
- Isolated to scattered Light to moderate rainfall over Punjab, Haryana, Chandigarh, Uttar Pradesh and Rajasthan during 22<sup>nd</sup> -24<sup>th</sup> January.
- Thunderstorm activity likely over Uttarakhand on 23<sup>rd</sup> & 24<sup>th</sup>; Punjab, Haryana, Chandigarh, Delhi and Rajasthan on 22<sup>nd</sup> & 23<sup>rd</sup> January.

#### Forecast of minimum temperatures:

- No significant change in minimum temperatures likely over northwest India during next 4 days and thereafter rise by 3-5°C during subsequent 3 days.
- No significant change in minimum temperatures likely over Maharashtra during next 24 hours, rise by 2-4°C during subsequent 4 days and no significant change thereafter.
- Gradual rise in minimum temperatures by 2-3°C likely over Gujarat state and East India during next 3 days and thereafter no significant change for next 4 days.
- No significant change in minimum temperatures likely over Central India during next 4 days; gradual rise by 2-3°C during next 3 days.
- No significant change in minimum temperatures likely over rest parts of the country.

#### Dense Fog, Cold day & Cold wave Warnings:

- **Dense to very dense fog** conditions very likely to prevail in morning/night hours in some parts over Uttar Pradesh till 19<sup>th</sup> and **Dense fog** in isolated pockets Uttar Pradesh till 20<sup>th</sup> January 2026.
- **Dense fog** conditions also likely during morning/night hours in isolated/some pockets over Punjab, Haryana Chandigarh and Bihar till 21<sup>st</sup>; West Rajasthan till 19<sup>th</sup>; Delhi & Sub-Himalayan West Bengal & Sikkim till 20<sup>th</sup> January.
- **Cold wave conditions** very likely in isolated pockets Himachal Pradesh during 19<sup>th</sup> -21<sup>st</sup>; Odisha on 19<sup>th</sup> January.

\*Red color warning does not mean "Red Alert" Red color warning means "Take Action"

Forecast and warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

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### Main Weather Observations:

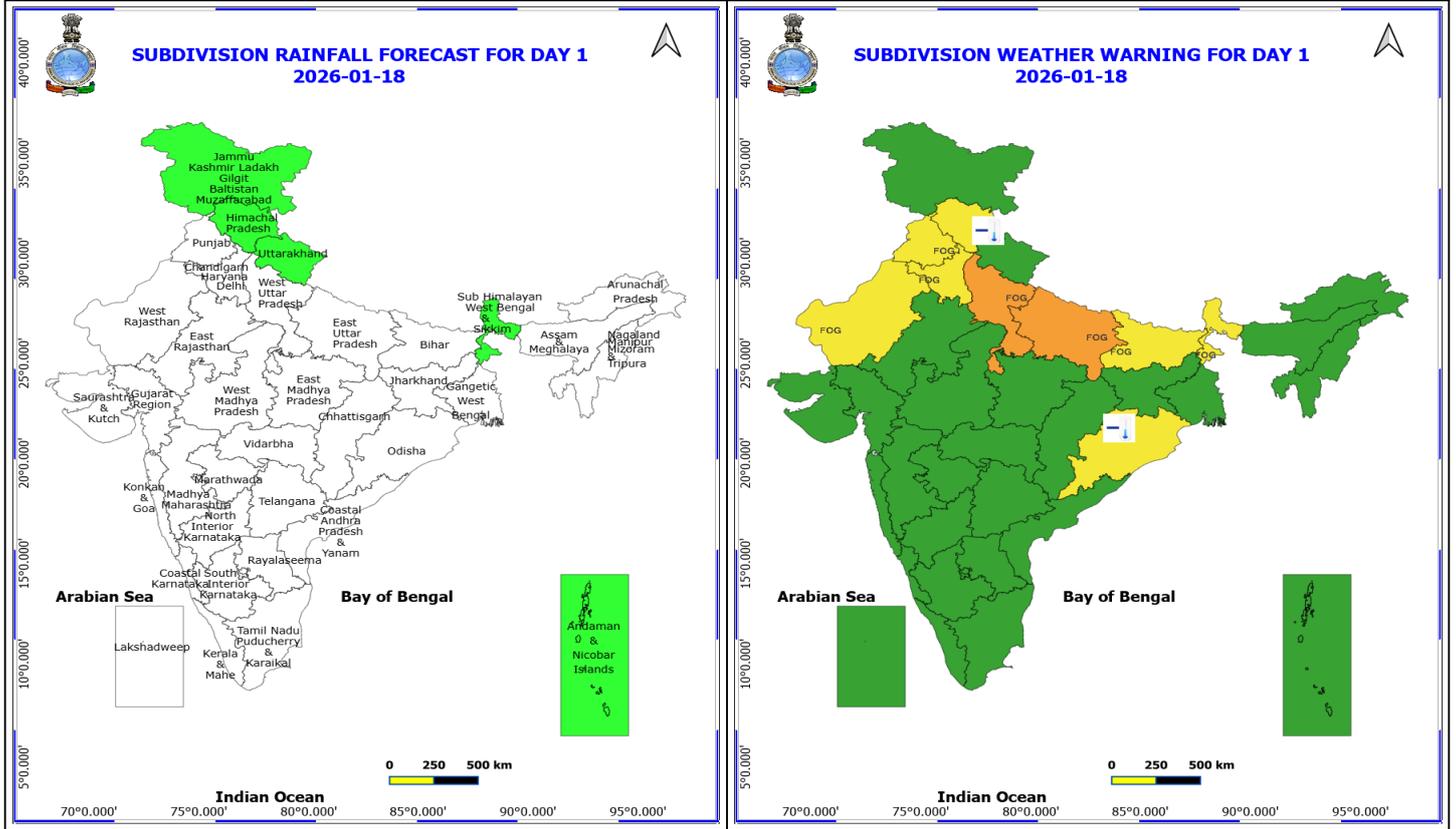
- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at isolated places** over Andaman & Nicobar Islands; **Dry** over rest of the country.
- ❖ **Fog Condition Observed (at 0830 hours of today): Dense to very Dense fog conditions** prevailed in many parts of Punjab and Uttar Pradesh; in isolated parts of Haryana and Delhi, Gujarat Region and **dense fog** conditions prevailed in isolated pockets of Bihar, West Uttar Pradesh, Saurashtra & Kutch and West Rajasthan.
- ❖ **Visibility reported (at 0830 hours of today): Bihar:** Gaya(50); **Punjab:** Amritsar(0); Patiala(20); Bathinda(40); Faridkot(15); Gurdaspur(100); Ludhiana(50); **Haryana:** Hisar(40); **West Uttar Pradesh:** AMS Moradabad, AMS Aligarh, Hindon(IAF) & Bareilly(IAF)(00) Each; Meerut(10), Bareilly(20), Shahjahanpur & Aligarh (30) Each, Moradabad(50); **West Uttar Pradesh:** AMS Gorakhpur(IAF), Barabanki, Kanpur(IAF) & Azamgarh(00) Each, Fursatganj(10), Ballia & Bahraich(20) Each, Sultanpur & Fatehgarh(30) Each, Lucknow(AP), Hardoi, Kanpur(City), Varanasi(AP), Ayodhya(50) Each, Prayagraj(IAF)(100); **West Rajasthan:** Ganganagar (50); **Gujarat Region:** Surat (00); **Saurashtra & Kutch:** Hirasar (50).
  - **Severe Cold wave conditions** prevailed in isolated places over Himachal Pradesh, Punjab; cold wave conditions over isolated places of Uttarakhand, Uttar Pradesh, Chhattisgarh and Odisha
- ❖ **Minimum Temperature Departures (as on 18-01-2026):** Minimum Temperatures were above normal by (2°C to 5°C ) over Central India and adjoining western India and below normal (-2°C to -4°C) over some parts of Uttar Pradesh, Jharkhand, north Chhattisgarh, interior Odisha, Telangana and Rayalaseema and near normal over rest parts of the country. **The lowest minimum temperature** of 1.7°C is reported at AMRITSAR (RAJASANSI) (A) (PUNJAB) over the Plains of India.
- ❖ **Maximum Temperature Departures (as on 17-01-2026):** The highest maximum temperature of 35.6°C is reported at KARWAR (KARNATAKA).

### Meteorological Analysis (Based on 0830 hours IST)

- Conditions are becoming favourable for cessation of **Northeast monsoon** rains over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and adjoining areas of Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka during next 48 hours.
- The **upper air cyclonic circulation** over Comorin area between 0.9 km & 1.5 km above mean sea level persists.
- The **Western Disturbance** as a cyclonic circulation over south Pakistan & neighbourhood now lies over north Pakistan & neighbourhood at 3.1 km above mean sea level with the trough aloft in middle and upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 68°E to the north of Lat. 28°N.
- The **induced cyclonic circulation** over southwest Rajasthan & neighbourhood now lies over central Rajasthan & neighbourhood and extends upto 1.5 km above mean sea level.
- An **upper air cyclonic circulation** lies over northwest Uttar Pradesh & neighbourhood at 1.5 km above mean sea level.
- An **upper air cyclonic circulation** lies over northeast Assam & neighbourhood at 1.5 km above mean sea level.
- **Subtropical westerly Jet Stream** with core winds of the order of 135 knots at 12.6 km above mean sea level prevails over Northeast India.
- Two **Western disturbance** in quick succession is likely to affect Northwest India from 19<sup>th</sup> & 21<sup>st</sup> January, 2026 night.

### Weather Outlook for subsequent 3 days

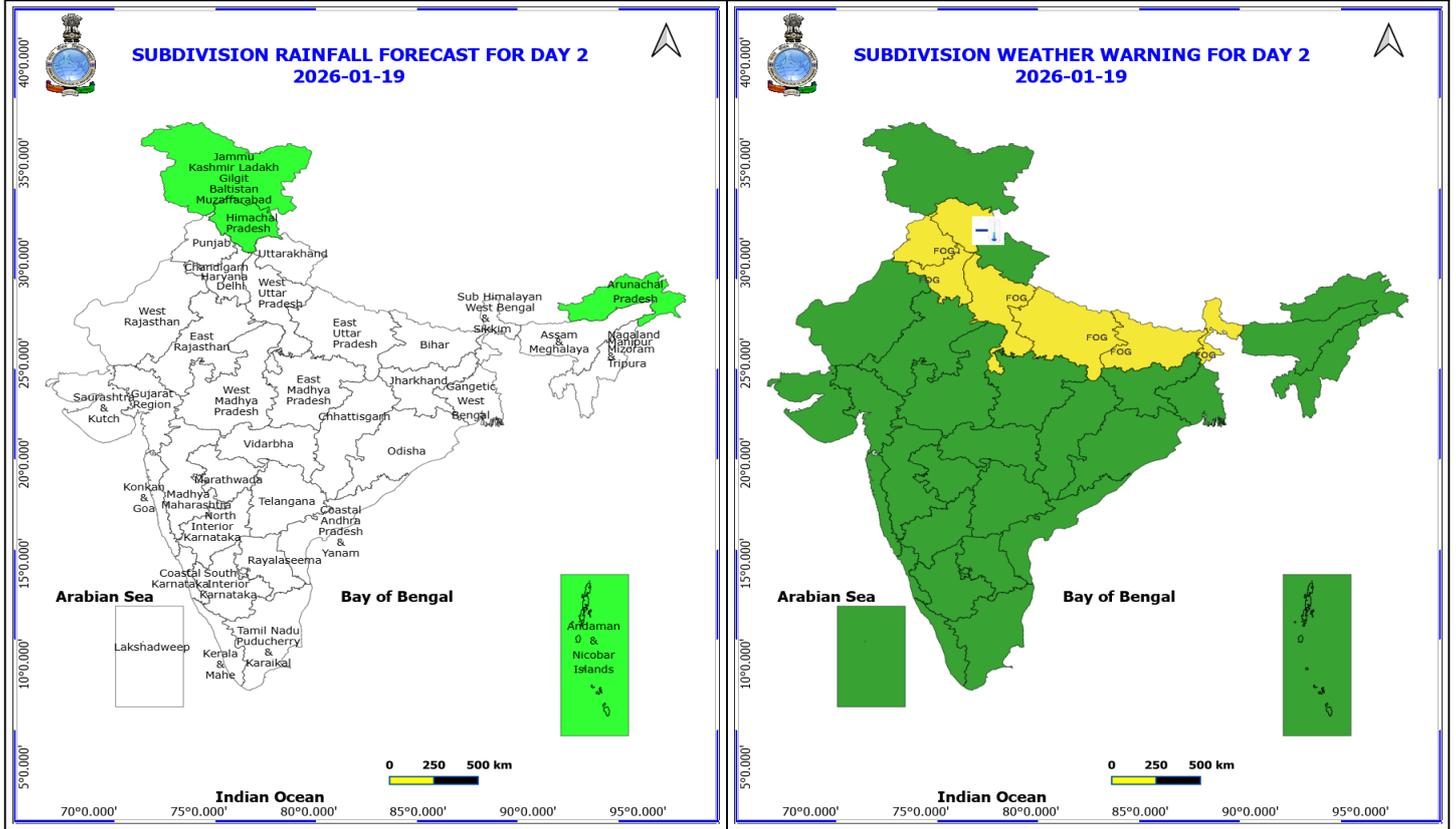
- Scattered to Fairly widespread activity likely over Western Himalayan Region, Punjab, Haryana, Delhi.
- Isolated/Scattered rainfall activity is likely over West Uttar Pradesh.
- Isolated rainfall activity is likely over Lakshadweep and Nicobar islands.



**18 January (Day 1)**

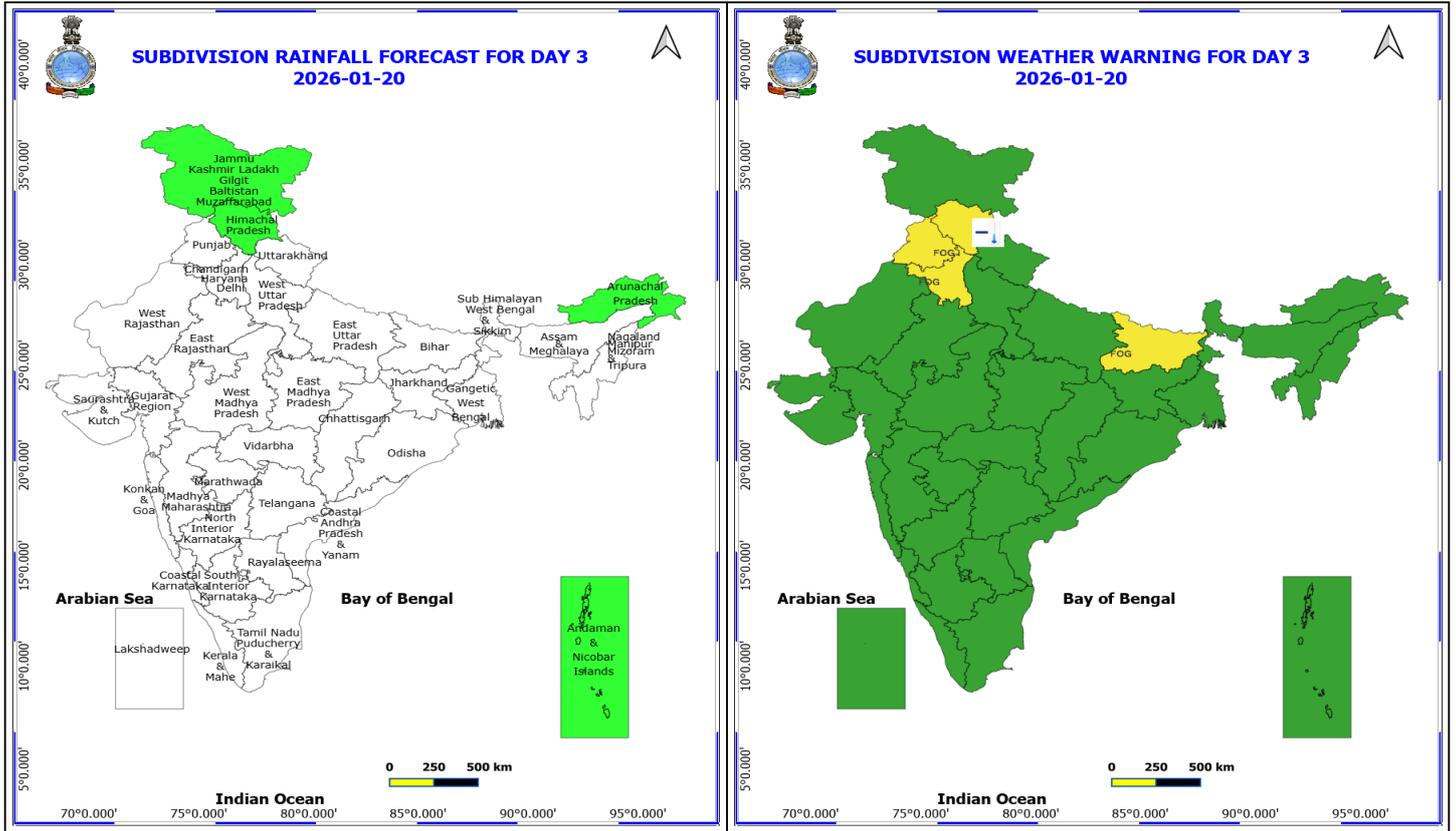
- ❖ **Cold wave conditions** very likely at isolated places over Himachal Pradesh and Odisha.
- ❖ **Dense Fog** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab, Sub Himalayan West Bengal & Sikkim and West Rajasthan.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Uttar Pradesh.
- ❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail over Gulf of Mannar and some parts of Comorin area.

**\*Red color warning does not mean "Red Alert" Red color warning means "Take Action"**  
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**19 January (Day 2)**

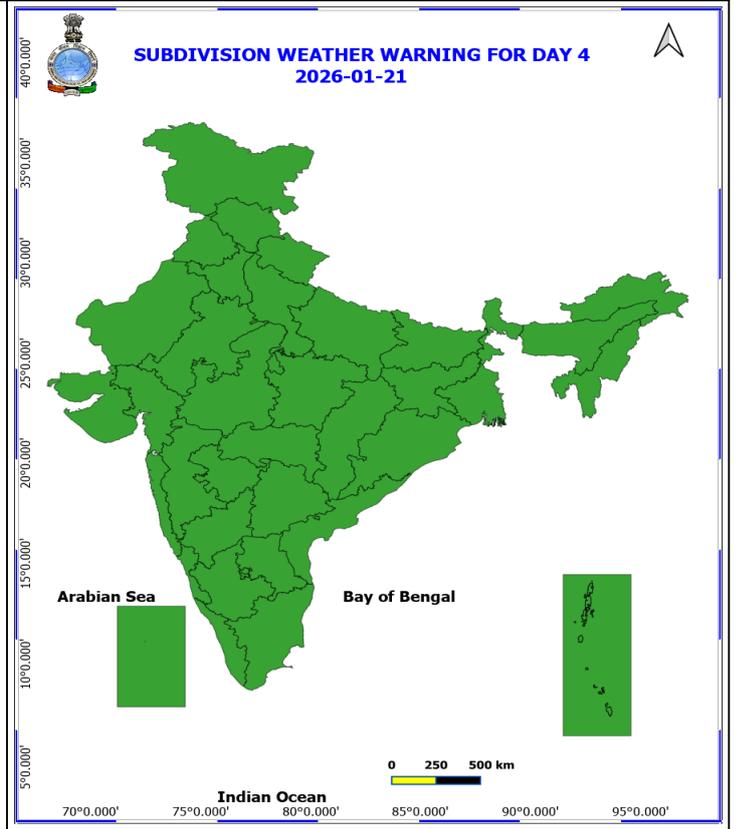
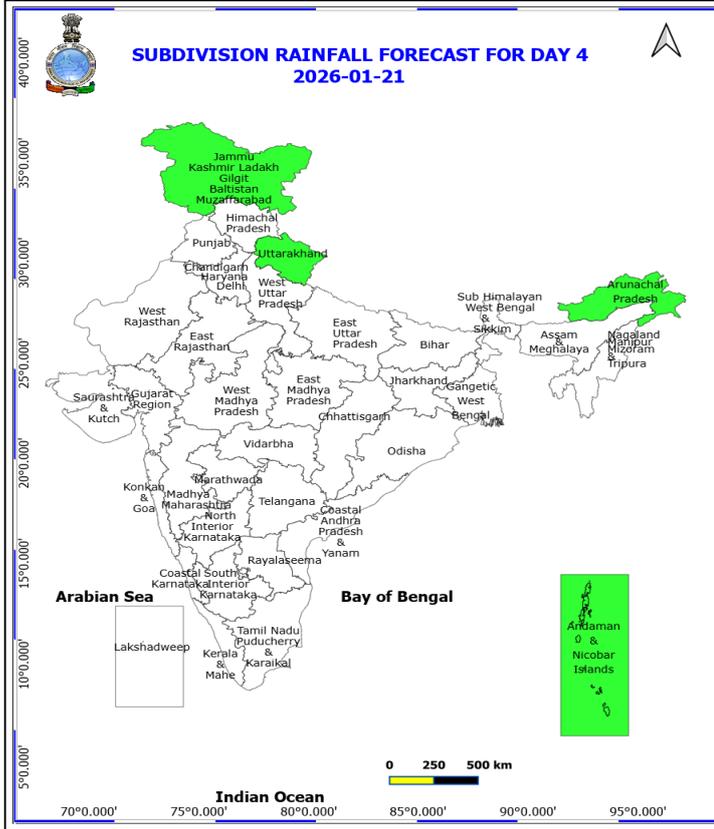
- ❖ **Cold wave conditions** very likely at isolated places over Himachal Pradesh.
  - ❖ **Dense Fog** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab, Sub Himalayan West Bengal & Sikkim and Uttar Pradesh.
- No Warning.



**20 January (Day 3)**

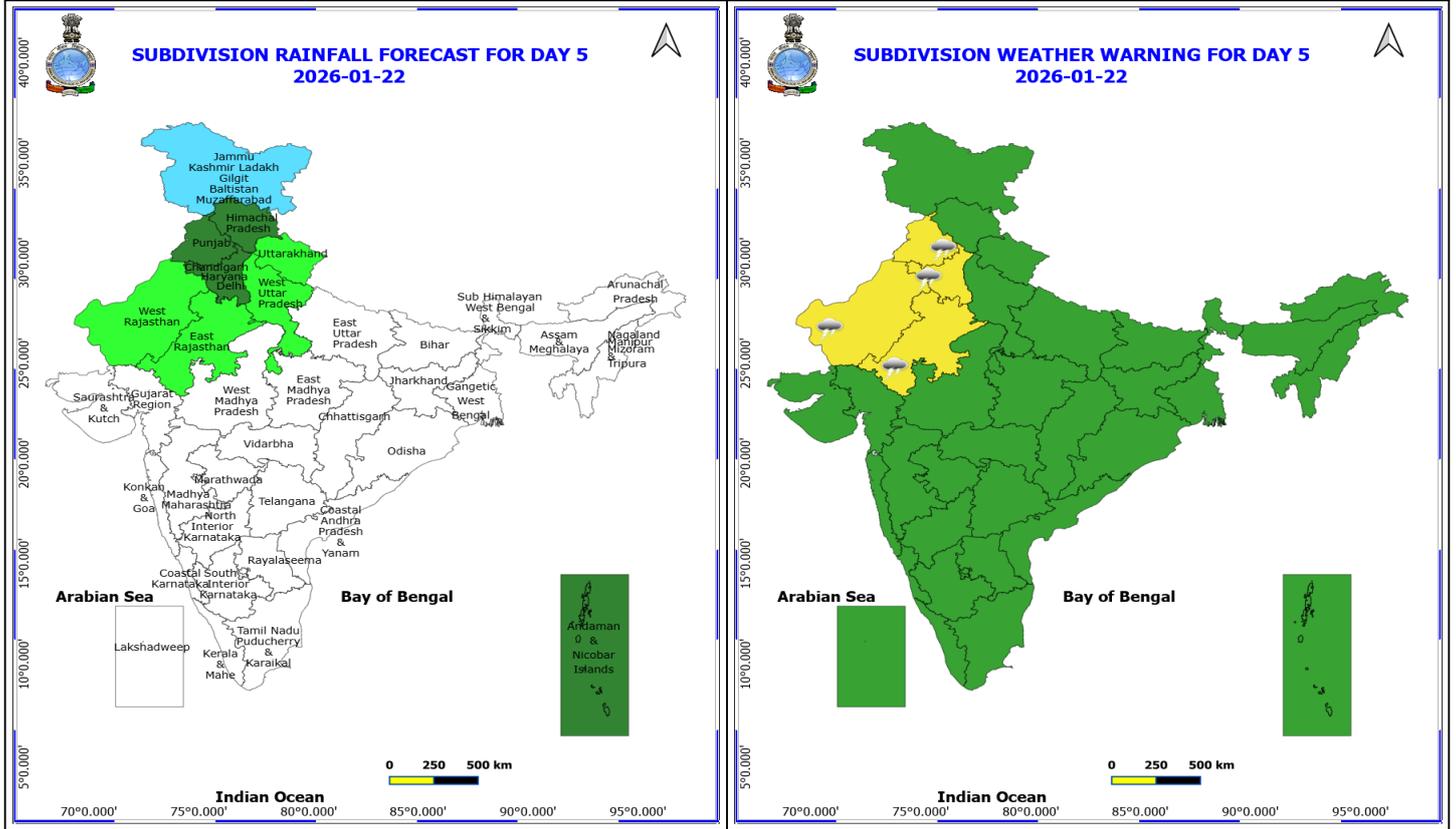
- ❖ **Cold wave conditions** very likely at isolated places over Himachal Pradesh.
- ❖ **Dense Fog** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi and Punjab.

No Warning.



21 January (Day 4)

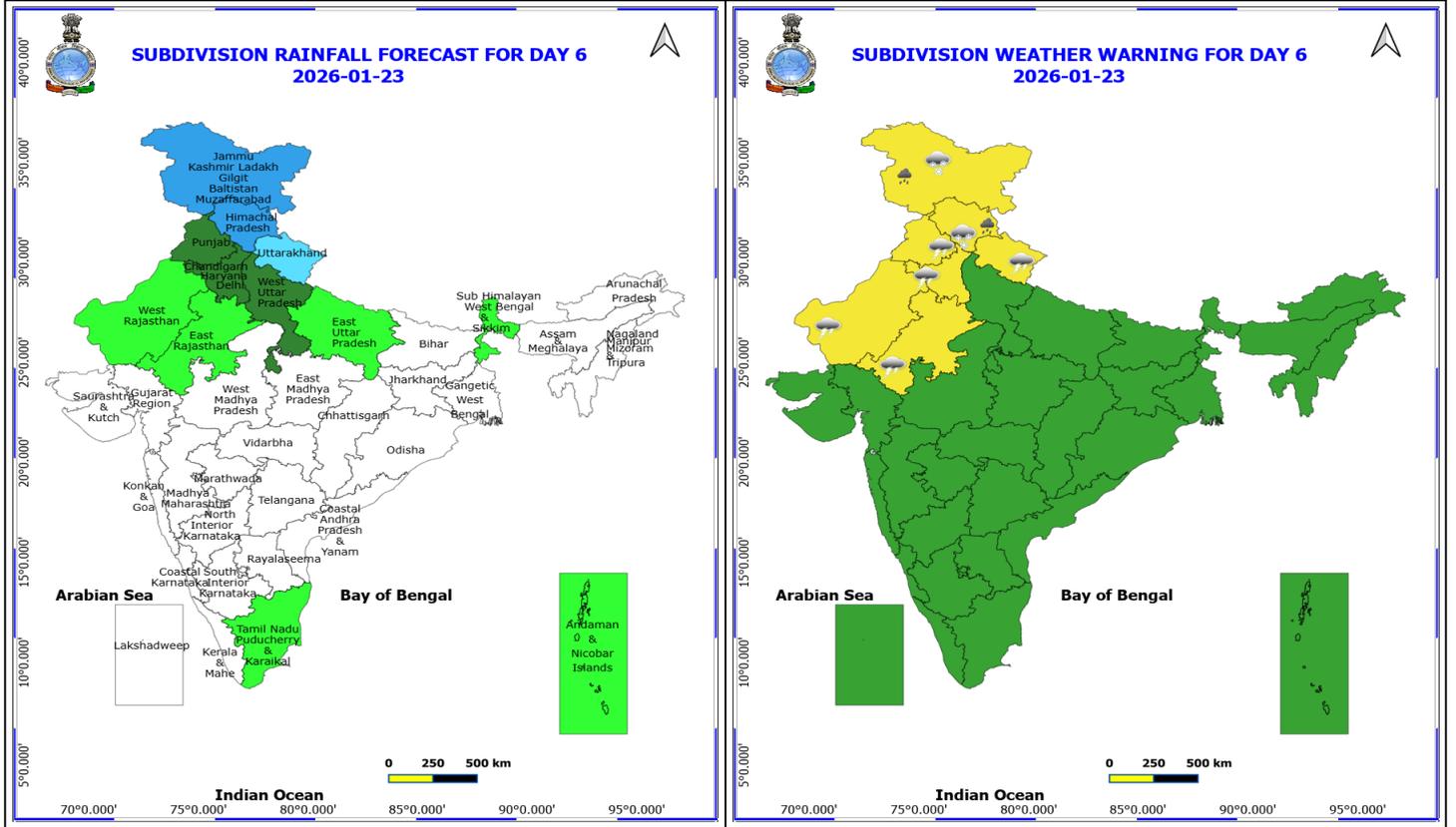
No Warning  
No Warning.



**22 January (Day 5)**

❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and Rajasthan.

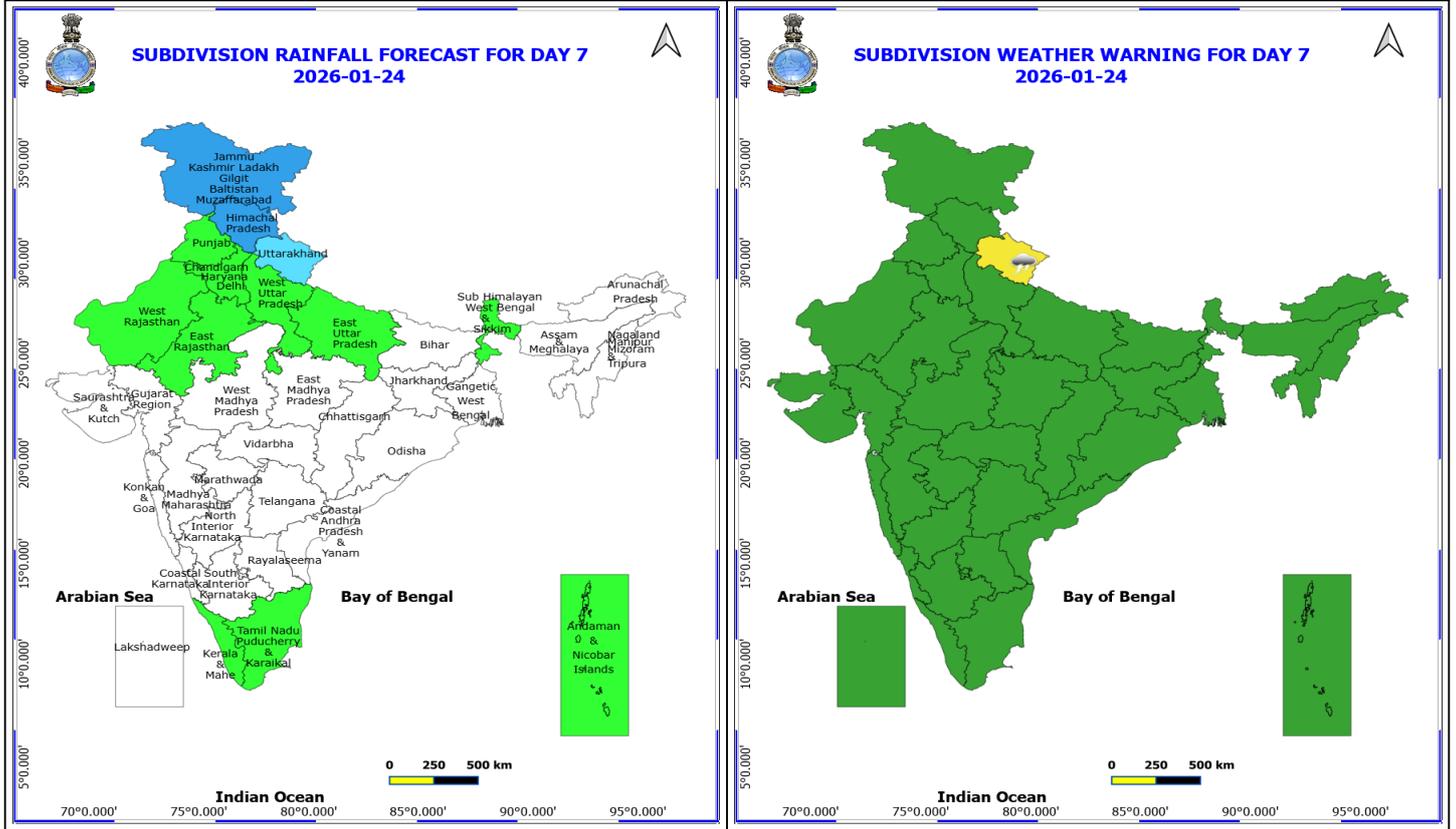
No Warning.



**23 January (Day 6)**

- ❖ **Heavy Rainfall** likely at isolated places over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Heavy Snowfall** likely at isolated places over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, Rajasthan and Uttarakhand.

**No Fishermen Warning**



**24 January (Day 7)**

❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Uttarakhand.

**No Fishermen Warning**



**Table-1**

**7 Days Rainfall Forecast**

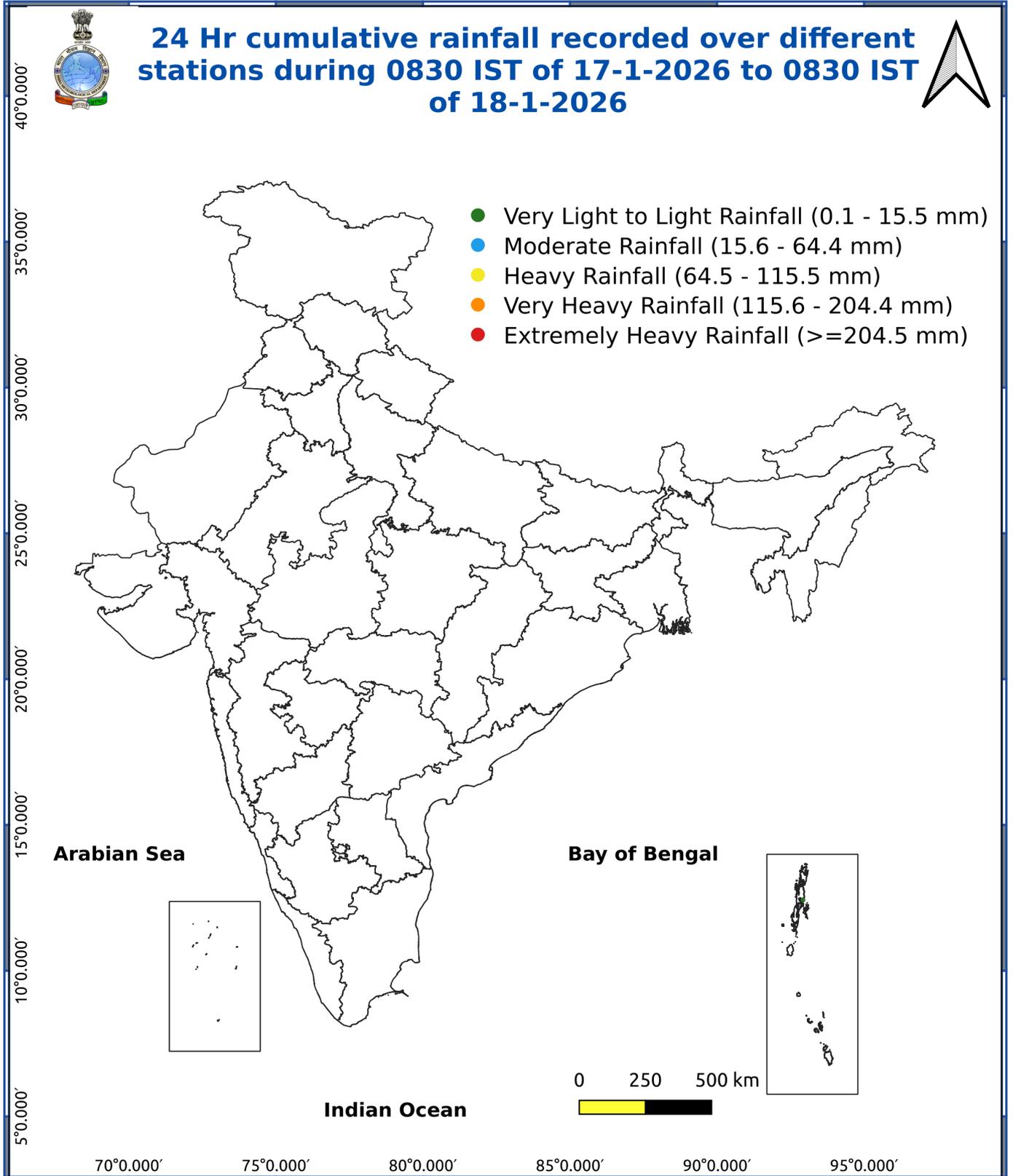
| S.No. | Subdivision                  | 18-Jan | 19-Jan | 20-Jan | 21-Jan | 22-Jan | 23-Jan | 24-Jan |
|-------|------------------------------|--------|--------|--------|--------|--------|--------|--------|
|       |                              | Day 1  | Day 2  | Day 3  | Day 4  | Day 5  | Day 6  | Day 7  |
| 1     | ANDAMAN & NICOBAR ISLANDS    | ISOL   | ISOL   | ISOL   | ISOL   | SCT    | ISOL   | ISOL   |
| 2     | ARUNACHAL PRADESH            | DRY    | ISOL   | ISOL   | ISOL   | DRY    | DRY    | DRY    |
| 3     | ASSAM & MEHGHALAYA           | DRY    |
| 4     | N. M. M. & T.                | DRY    |
| 5     | S.H. WEST BENGAL & SIKKIM    | ISOL   | DRY    | DRY    | DRY    | DRY    | ISOL   | ISOL   |
| 6     | GANGETIC WEST BENGAL         | DRY    |
| 7     | ODISHA                       | DRY    |
| 8     | JHARKHAND                    | DRY    |
| 9     | BIHAR                        | DRY    |
| 10    | EAST UTTAR PRADESH           | DRY    | DRY    | DRY    | DRY    | DRY    | ISOL   | ISOL   |
| 11    | WEST UTTAR PRADESH           | DRY    | DRY    | DRY    | DRY    | ISOL   | SCT    | ISOL   |
| 12    | UTTARAKHAND                  | ISOL   | DRY    | DRY    | ISOL   | ISOL   | FWS    | FWS    |
| 13    | HARYANA, CHD & DELHI         | DRY    | DRY    | DRY    | DRY    | SCT    | SCT    | ISOL   |
| 14    | PUNJAB                       | DRY    | DRY    | DRY    | DRY    | SCT    | SCT    | ISOL   |
| 15    | HIMACHAL PRADESH             | ISOL   | ISOL   | ISOL   | DRY    | SCT    | WS     | WS     |
| 16    | JAMMU AND KASHMIR AND LADAKH | ISOL   | ISOL   | ISOL   | ISOL   | FWS    | WS     | WS     |
| 17    | WEST RAJASTHAN               | DRY    | DRY    | DRY    | DRY    | ISOL   | ISOL   | ISOL   |
| 18    | EAST RAJASTHAN               | DRY    | DRY    | DRY    | DRY    | ISOL   | ISOL   | ISOL   |
| 19    | WEST MADHYA PRADESH          | DRY    |
| 20    | EAST MADHYA PRADESH          | DRY    |
| 21    | GUJRAT REGION                | DRY    |
| 22    | SAURASHTRA & KUTCH           | DRY    |
| 23    | KONKAN & GOA                 | DRY    |
| 24    | MADHYA MAHARASHTRA           | DRY    |
| 25    | MARATHWADA                   | DRY    |
| 26    | VIDARBHA                     | DRY    |
| 27    | CHATTISGARH                  | DRY    |
| 28    | COASTAL ANDHRA PRADESH       | DRY    |
| 29    | TELANGANA                    | DRY    |
| 30    | RAYALASEEMA                  | DRY    |
| 31    | TAMILNADU & PUDUCHERRY       | DRY    | DRY    | DRY    | DRY    | DRY    | ISOL   | ISOL   |
| 32    | COSTAL KARNATAKA             | DRY    |
| 33    | NORTH INTERIOR KARNATAKA     | DRY    |
| 34    | SOUTH INTERIOR KARNATAKA     | DRY    |
| 35    | KERALA                       | DRY    | DRY    | DRY    | DRY    | DRY    | DRY    | ISOL   |
| 36    | LAKSHDWEEP                   | DRY    |

| Legend | Category                      | %Stations |
|--------|-------------------------------|-----------|
| WS     | Widespread/Most Places        | 76-100    |
| FWS    | Fairly Widespread/Many Places | 51-75     |
| SCT    | Scattered/ A Few Places       | 26-50     |
| ISOL   | Isolated Places               | 1-25      |
| DRY    | No Rain                       | 0         |

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## Impact and Actions

### Impact expected due to dense/very dense fog in the morning hours:

- Dense to very dense fog conditions very likely to continue over northwest India and Bihar during next 2-3 days.

### 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.

### Impact expected due to Cold Wave to Severe Cold wave conditions:

**Cold wave conditions** very likely in some/many parts of in isolated pockets Himachal Pradesh during 19<sup>th</sup> -21<sup>st</sup>; Odisha on 19<sup>th</sup> January.

- 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:

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- Wear several layers of loose fitting, light weight; warm woollen 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 woollen 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.

#### Impact expected due to Cold Day conditions:

Cold day conditions very likely in some pockets of Uttar Pradesh during next 2 days.

- 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 woollen 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.

#### Agromet advisories for various parts of the country

##### Agromet advisories for likely impact of Cold Waves/ Ground Frost/ Low Temperatures

- In **Himachal Pradesh, Uttarakhand** and **Odisha**, apply light and frequent irrigation to the standing crops in the evening hours to protect crops from low temperature stress or cold injury. Use mulching and cover the vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.

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### Livestock / Poultry

- Keep the cattle in the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

### Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

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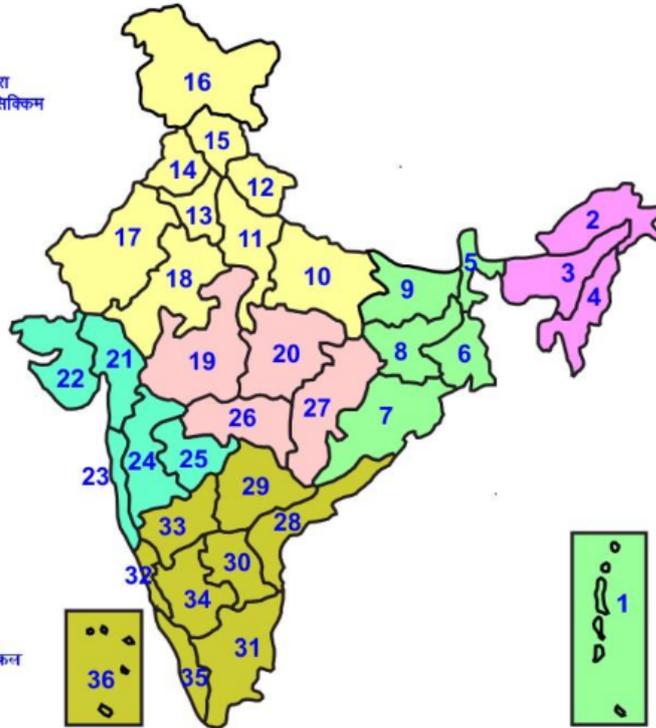
### Legends & abbreviations:

### 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 Marathawada.
- **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. 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 Colour

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

### Probabilistic Forecast

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

- |                          |                 |                      |                    |
|--------------------------|-----------------|----------------------|--------------------|
| Heavy Rain               | Very Heavy Rain | Extremely Heavy Rain | Heavy Snow         |
| Thunderstorm & Lightning | Hailstorm       | Dust Storm           | Dust Raising Winds |
| Strong surface winds     | Heat Wave       | Hot Day              | Warm Night         |
| Cold Wave                | Cold Day        | Ground Frost         | Fog                |
| Hot & Humid              |                 |                      |                    |

\*Red color warning does not mean "Red Alert" Red color warning means "Take Action"

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## LEGENDS

### 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                          |



Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm\*  
Extremely Heavy: > 204.4 mm/cm \*



When maximum temperature of a station reaches  $\geq 40^\circ\text{C}$  for plains and  $\geq 30^\circ\text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^\circ\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^\circ\text{C}$ .  
Severe Heat Wave: When actual maximum temperature  $\geq 47^\circ\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^\circ\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^\circ\text{C}$



When maximum temperature remains  $40^\circ\text{C}$

Warm Night: When minimum temperature departure  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
Severe Warm Night: When minimum temperature departure  $> 6.4^\circ\text{C}$ .



When minimum temperature of a station  $\leq 10^\circ\text{C}$  for plains and  $\leq 0^\circ\text{C}$  for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
Severe Cold Wave: Minimum Temperature Departure from normal  $\leq -6.5^\circ\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is  $\leq 4.0^\circ\text{C}$   
Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^\circ\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^\circ\text{C}$  & actual Minimum Temperature is  $\leq 15^\circ\text{C}$



When minimum temperature of a station  $\leq 10^\circ\text{C}$  for plains and  $\leq 0^\circ\text{C}$  for hilly regions  
Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^\circ\text{C}$



Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres  
Dense Fog: when the visibility between 50- 200 metres  
Very Dense Fog: when the visibility  $< 50$  metres



Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Ice deposits on ground

Air temperature  $\leq 4^\circ\text{C}$  ( over Plains)



A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph  
Severe: Wind speed 62-87 kmph  
Very Severe: Wind speed  $> 87$  kmph



Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre  
High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre  
Phenomenal: Wind speed  $> 117$  kmph ( $> 63$  knots) & Wave height  $> 14$  metre



Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)  
Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)  
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)  
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)  
Super Cyclone Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

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