



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 16th January 2026

Time of Issue: 1230 hours IST

Subject: (i) Cold wave conditions very likely in isolated pockets over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Madhya Pradesh, Jharkhand, Odisha & Chhattisgarh during next 1-2 days and abate thereafter.

(ii) Dense fog conditions very likely to continue over Northwest India and Bihar during next 5 days.

(iii) Cold day conditions very likely in isolated pockets of Uttarakhand, Punjab, Haryana & Chandigarh and Uttar Pradesh during next 2 days.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 16th January, 2026:

- ❖ **Dense to very Dense fog (visibility <50 m) conditions** prevailed in many parts of Punjab, Haryana; in some parts of Uttarakhand, Uttar Pradesh; in isolated pockets of Odisha and **dense fog (visibility 50-199 m) conditions** prevailed in isolated pockets of West Rajasthan, Chandigarh and Meghalaya.
- ❖ **Visibility reported (in meters ≤ 200 m): Uttarakhand:** Pantnagar 0m, Haridwar, Roorkee, Laksar, Bhagwanpur, Kashipur, Khatima 20m each, Roshnabad 30m; **Punjab:** Amritsar 0m, Ludhiana, Faridkot, Ballawal Saunkhri 20m each, Bathinda 30m, Patiala 40m; **Haryana & Chandigarh:** Ambala 0m, Bhiwani 0m, Hisar 20m, Karnal 40m, Chandigarh 80m; **West Uttar Pradesh:** AMS Moradabad, Sarsawa(IAF), Hindon(IAF) & Bareilly(IAF) 0m each, Bareilly 20m, Aligarh 30m, AMS Aligarh, Muzaffarnagar & Meerut 50m each, Najibabad 60m, Moradabad & Shahjahanpur 100m each; **East Uttar Pradesh:** Prayagraj (IAF) 0m, Hardoi 30m, Fatehgarh & Bahraich 40m, Barabanki 60m, Gorakhpur(IAF), Fursatganj & Kanpur IAF 100m each, Varanasi & Lucknow 150m; **Odisha:** Boud 40m; **Meghalaya:** Barapani 50m; **West Rajasthan:** Sri Ganganagar 70m.
- ❖ **Cold wave to severe cold wave conditions** prevailed in many parts of Punjab and **Cold wave conditions** in some parts of Himachal Pradesh, Haryana, Jharkhand; in isolated pockets of Uttarakhand, East Uttar Pradesh, East Rajasthan, Chhattisgarh and Odisha.
- ❖ **Severe Cold day conditions** prevailed in isolated pockets of Uttarakhand, West Uttar Pradesh and **cold day conditions** in isolated pockets of Haryana.
- ❖ **Ground frost conditions** have been recorded in isolated pockets over Uttarakhand.

Temperature Conditions during past 24 hours till 0830 hours IST of today:

- ❖ **Minimum temperatures** were **below 0°C** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **1-5°C** at a few places over Himachal Pradesh & Delhi; at isolated places over Punjab, Haryana & West Uttar Pradesh; **5°-10°C** at many places over Madhya Pradesh; at a few places over East Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh, Odisha, West Bengal & Sikkim; at isolated places over Rajasthan, Saurashtra & Kutch and Assam & Meghalaya.
- ❖ Minimum Temperature departures were below normal (-3°C to -6°C) over Haryana, Delhi, East Rajasthan, Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, Chhattisgarh, Gangetic West Bengal, Odisha and near normal over rest parts of the country. (refer to ANNEXURE IV)
- ❖ The lowest minimum temperature of **0.9°C** was observed at Ballawal Saunkhri (**Punjab**) over the plains of India.

Weather Systems, Forecast and Warnings (refer to ANNEXURE I & II):

- ❖ 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 2 days.

- ❖ An upper air **cyclonic circulation** lies over Southeast Arabian Sea and adjoining Lakshadweep & Kerala coast in lower tropospheric levels.
- ❖ The **Western Disturbance** now seen as a cyclonic circulation over northeast Iran & neighbourhood in lower tropospheric levels with a trough aloft in middle and upper tropospheric westerlies roughly along Long. 55°E to the north of Lat. 25°N.
- ❖ Subtropical westerly **Jet Stream** with core winds of the order of 130 knots at 12.6 km above mean sea level prevails over Northwest India.
- ❖ Another fresh **Western disturbance** is likely to affect Northwest India from 19th January, 2026.

Under the influence of above system, the following weather is likely:

- ❖ Light/moderate isolated to scattered rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 16th-22nd January and isolated rainfall over Punjab on 18th, 19th & 22nd; Haryana, Chandigarh on 19th & 22nd and West Uttar Pradesh on 22nd January.

Forecast of minimum temperatures:

- ❖ Gradual rise in minimum temperatures by 2-4°C likely over Northwest & Central India during next 3 days and no significant change during subsequent 4 days.
- ❖ No significant change in minimum temperatures likely over East India during next 2 days; gradual rise by 2-4°C during subsequent 3 days and no significant change thereafter for subsequent 2 days.
- ❖ No significant change in minimum temperatures likely over Maharashtra during next 24 hours; gradual rise by 2-3°C during subsequent 3 days and no significant change during subsequent 3 days.
- ❖ Gradual rise in minimum temperatures by 2-3°C likely over Gujarat State during next 24 hours and no significant change during subsequent 6 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 isolated pockets over Uttarakhand till 18th and **Dense fog** in isolated pockets till 21st January.
- ❖ **Dense to very dense fog** conditions very likely to prevail in morning/night hours in some parts over Punjab, Haryana Chandigarh till 17th and **Dense fog** in isolated pockets till 22nd January.
- ❖ **Dense to very dense fog** conditions very likely to prevail in morning/night hours in many/some parts over West Uttar Pradesh till 19th and East Uttar Pradesh till 20th; **Dense fog** in isolated pockets over East Uttar Pradesh on 21st January.
- ❖ **Dense fog** conditions also likely during morning/night hours in isolated pockets over Bihar during 17th-20th; Assam & Meghalaya till 18th and West Bengal & Sikkim till 19th January.
- ❖ **Cold day** conditions likely in isolated pockets of Uttarakhand, West Uttar Pradesh on 16th & 17th; Punjab, Haryana, Chandigarh on 16th; East Uttar Pradesh on 17th & 18th January.
- ❖ **Cold wave conditions** very likely in isolated pockets over Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh, West Madhya Pradesh, Jharkhand, Odisha on 17th and East Madhya Pradesh & Chhattisgarh on 17th & 18th January.

Ground frost Warnings:

- ❖ **Ground frost conditions** very likely in isolated pockets over Uttarakhand on 16th January 2026.

Weather conditions and forecast over Delhi/NCR during 16th -19th January, 2026 (ANNEXURE III) For more details, kindly refer National Weather Bulletin:

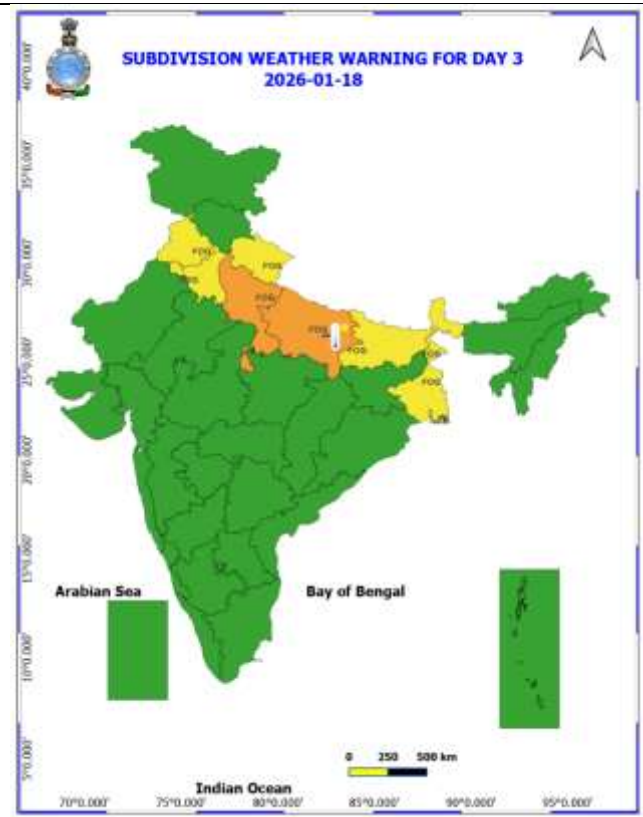
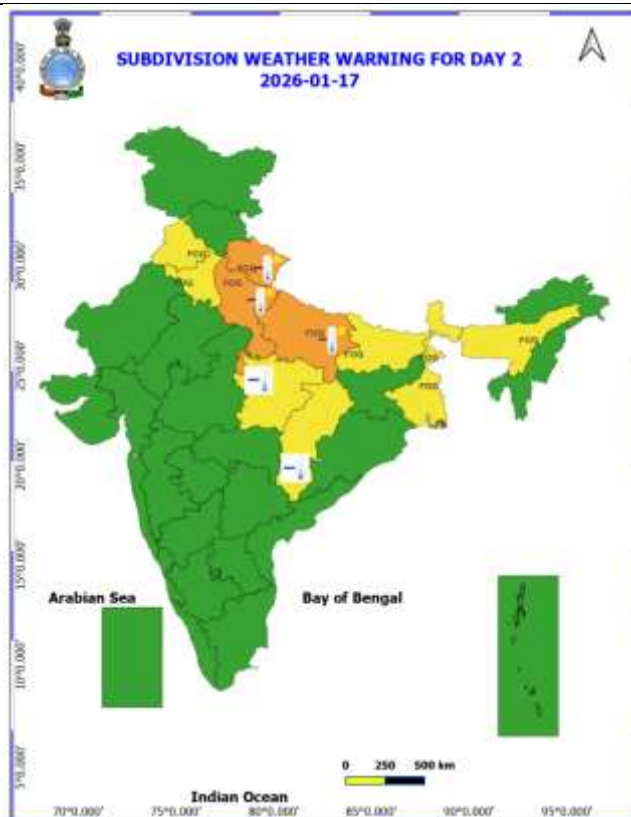
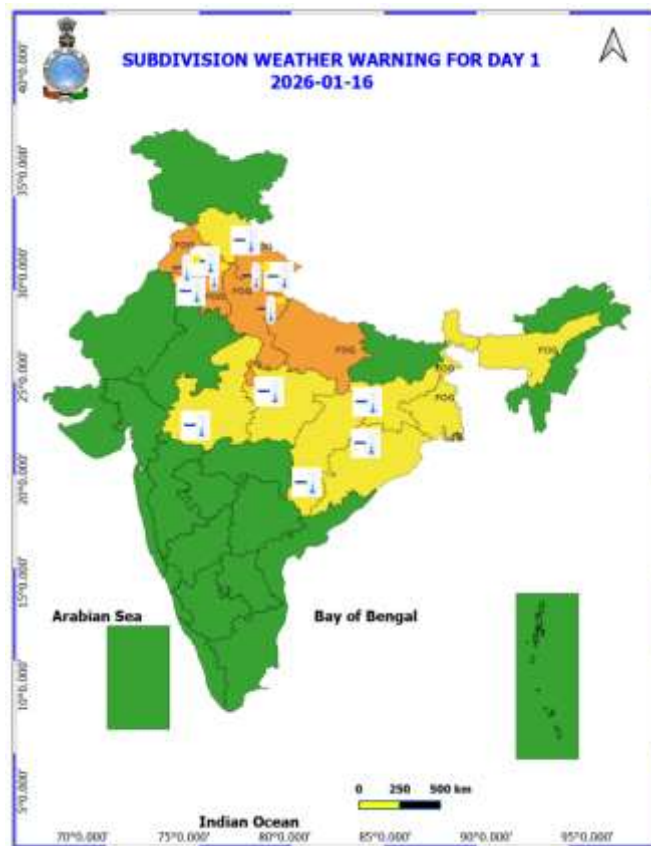
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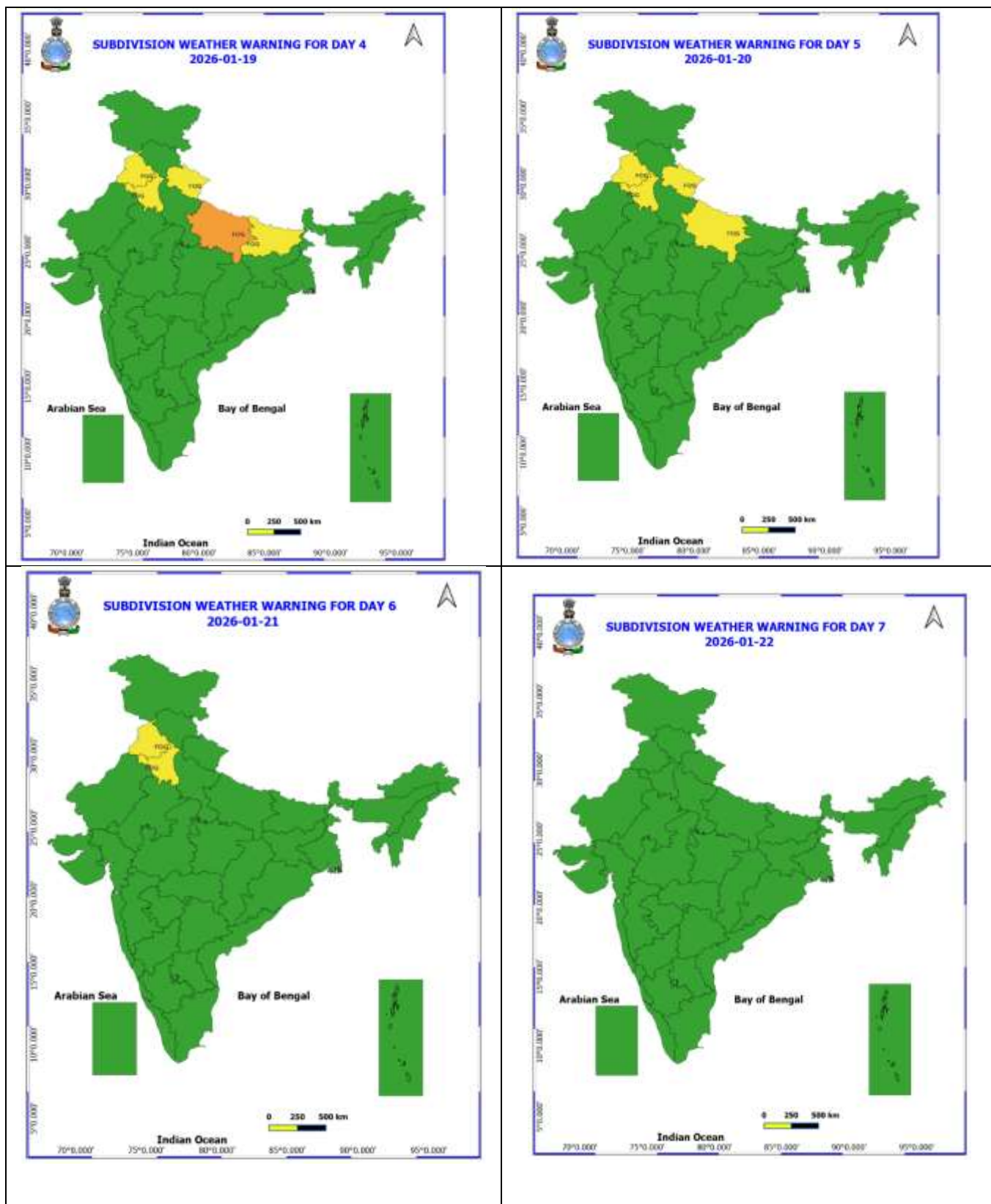
For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php>

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

- As the lead period increases forecast accuracy decrease.





- Action may be taken based on ORANGE AND REDCOLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Detailed districtwise MultiHazard weather warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 16th to 19th January 2026

Past Weather:

There has been rise in minimum temperature by about 1-2°C and no large change in maximum temperatures during the past 24 hours over Delhi. The maximum and minimum temperatures over Delhi were around 16°C to 19°C and 04°C to 06°C respectively. The minimum temperatures are appreciably below normal (-3.1 to -5.0) at many places and below normal (-1.6 to -3.0°C) at isolated places over Delhi. The maximum temperatures were appreciably below normal (-3.1 to -5.0) at isolated places, below normal (-1.6 to -3.0°C) at isolated places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi. Safdarjung reported lowest visibility 150m at 0800 IST, which thereafter improved to 300m at 0830 IST of today, 16.01.2026. Palam reported lowest visibility 150m at 0730 IST, which thereafter improved to 300m at 0800 IST of today, 16.01.2026. Mainly clear sky with moderate to dense fog, predominant surface wind from the west direction with a wind speed up to 15kmph prevailed during the past 24 hours. Mainly clear sky with wind speed reaching up to 05kmph from the west direction prevailed over the region in the forenoon today.

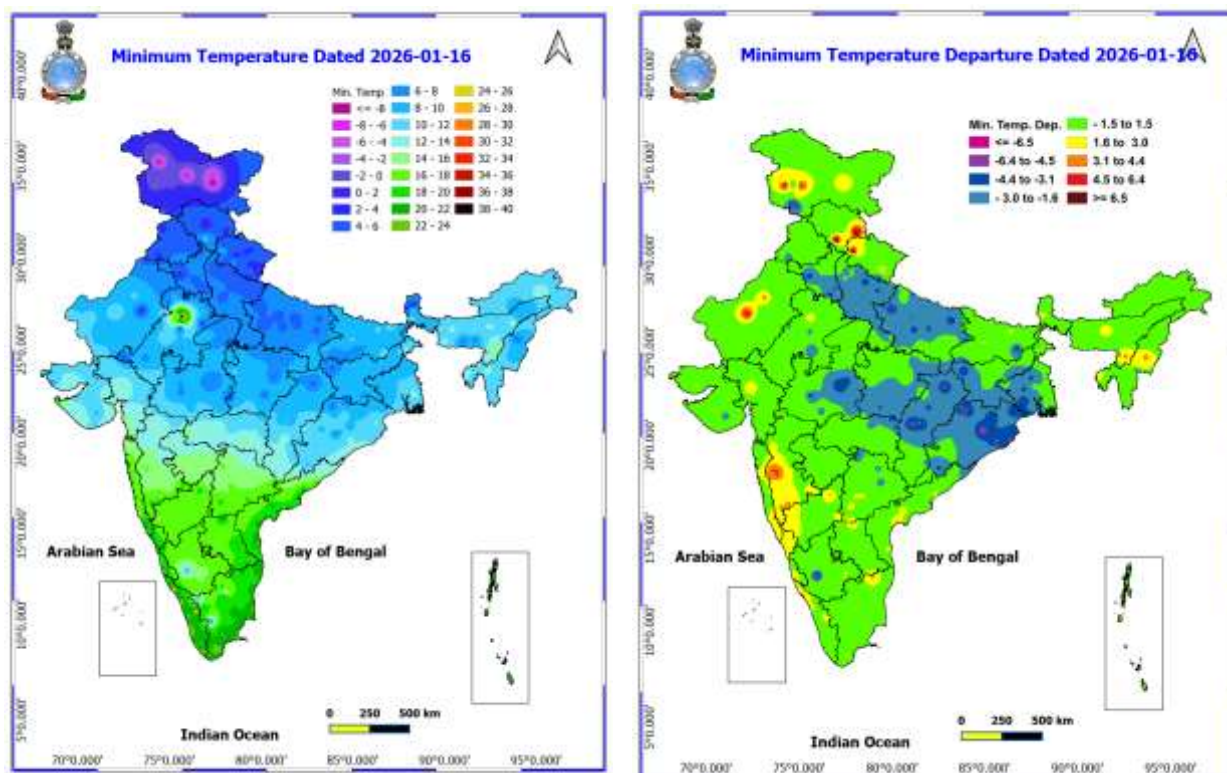
Weather Forecast:

16.01.2026: Mainly clear sky. Mist/haze during night. The maximum temperatures are likely to be in the range of 20°C to 22°C. Maximum temperatures will be above normal (1.6°C to 3.0°C) over Delhi. The predominant surface wind is likely to be from the west direction with wind speeds less than 05kmph during the afternoon hours. The wind speed will remain same up to 05 kmph from the northeast direction during the evening and night.

17.01.2026: Partly cloudy sky. Moderate fog at many places with dense fog at isolated places during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 21°C to 23°C and 06°C to 08°C respectively. The minimum temperature will be near normal and the maximum temperatures will be above normal (1.6°C to 3.0°C) over Delhi. The predominant surface wind is likely to be from the southeast direction associated with calm wind reaching up to 05 kmph during morning hours. The wind speed will increase becoming up to 08kmph from the southeast direction in the afternoon hours. The wind speed will decrease becoming up to 05kmph from the east direction during evening and night.

18.01.2025: Partly cloudy sky. Shallow to moderate fog during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 21°C to 23°C and 07°C to 09°C respectively. The minimum temperatures will be near normal and the maximum temperatures will be above normal (1.6°C to 3.0°C) over Delhi. The predominant surface wind is likely to be from the southeast direction with wind speeds less than 10kmph during the morning hours. The wind speed will increase becoming up to 12kmph from the southeast direction in the afternoon. The wind speed will decrease becoming up to 05kmph from northeast direction during the evening and night.

19.01.2026: Partly cloudy sky. Shallow to moderate fog during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 22°C to 24°C and 08°C to 10°C respectively. The minimum temperatures will be above normal (1.6°C to 3.0°C) and the maximum temperatures will be above normal (1.6°C to 3.0°C) over Delhi. The predominant surface wind is likely to be from the northeast direction associated with calm wind reaching up to 05 kmph during morning hours. The wind speed will increase becoming up to 08kmph from the north-northwest direction in the afternoon and wind speed will decrease becoming up to 05kmph from the north-northeast direction during the evening and night.



Reported minimum temperature ($\leq 5^{\circ}\text{C}$) at 0830 hrs IST of the 16th January 2026.

Station	State	Temperature
BALLOWAL SAUNKHRI	PUNJAB	0.9
PANTNAGAR	UTTARAKHAND	2.2
AMRITSAR	PUNJAB	3.2
AMBIKAPUR	CHHATTISGARH	3.9
NAJIBABAD	UTTAR PRADESH	4
MUZAFFAR NAGAR	UTTAR PRADESH	4.1
SAFDARJUNG	NEW DELHI	4.3
AYA NAGAR	NEW DELHI	4.3
RAJGARH	MADHYA PRADESH	4.5
ROURKELA	ODISHA	4.6
DALTONGANJ	JHARKHAND	4.7
PALAM	NEW DELHI	4.7
LODI ROAD	NEW DELHI	4.7
BAREILLY	UTTAR PRADESH	4.8
JHARSIGUDA	ODISHA	5

Impact expected due to dense/very dense fog in the morning hours: Dense fog conditions very likely over northwest India and Bihar during next 5 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 conditions:

- ❖ **Cold wave conditions** likely in isolated pockets over Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh, West Madhya Pradesh, Jharkhand, Odisha on 17th and East Madhya Pradesh & Chhattisgarh on 17th & 18th 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:

- ❖ 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 in isolated pockets of Uttarakhand, West Uttar Pradesh on 16th & 17th; Punjab, Haryana, Chandigarh on 16th; East Uttar Pradesh on 17th & 18th 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:

- ❖ 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.

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

- In **Himachal Pradesh, Uttarakhand, Punjab, Haryana, Odisha, Jharkhand, Madhya Pradesh and Chhattisgarh**, 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.

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.

Legends & abbreviations:

- ❖ **Heavy Rain:** 64.5-115.5mm; **Very Heavy Rain:** 115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.
- ❖ **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 द्वीपसमूह

2. अरुणाचल प्रदेश

3. असम और मेघालय

4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा

5. उप-हिमालयी पश्चिम बंगाल और सिक्किम

6. गंगीय पश्चिम बंगाल

7. ओडिशा

8. झारखंड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखंड

13. हरियाणा, चंडीगढ़ और दिल्ली

14. पंजाब

15. हिमाचल प्रदेश

16. जम्मू और कश्मीर और लद्दाख

17. पश्चिम राजस्थान

18. पूर्वी राजस्थान

19. पश्चिम मध्य प्रदेश

20. पूर्वी मध्य प्रदेश

21. गुजरात

22. सौराष्ट्र

23. कोंकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुडुचेरी और कराईकल

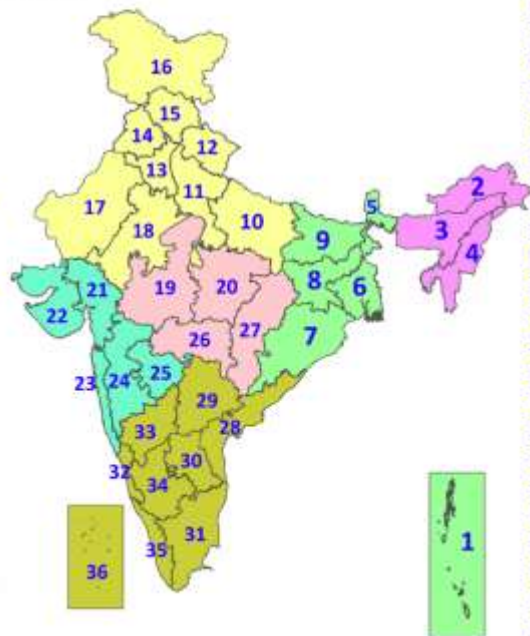
32. तटीय कर्नाटक

33. आंतरिक उत्तरी कर्नाटक

34. आंतरिक दक्षिणी कर्नाटक

35. केरल और 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. Odisha

8. Jharkhand

9. Bihar

10. East Uttar Pradesh

11. West Uttar Pradesh

12. Uttarakhand

13. Haryana, Chandigarh & 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. Marathwada

26. Vidarbha

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)



Fog



Heavy Snow



Cold Wave



Heavy Rain



Dust Storm



Cold Day



Very Heavy Rain



Heat Wave



Ground Frost



Extremely Heavy Rain



Warm Night



Thunder & Lightning



Hot Day



Hailstorm



Hot & Humid



Dust Raising Winds



Strong Surface Winds

COLOUR CODED WARNING

No Warning (No Action)

Watch (Be Aware)

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

* Red colour warning does not mean "Red Alert", Red colour 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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DEFINITION/CRITERIA

Rain/ Snow *

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

Heat Wave

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°C to 6.4°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 $\geq 37^{\circ}\text{C}$.

Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

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

Cold Wave

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°C to -6.4°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 $\leq 15^{\circ}\text{C}$

Cold Day

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°C to -6.4°C .

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

Fog

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

Thunderstorm

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

Dust/Sand Storm

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

Frost

Ice deposits on ground

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

Squall

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

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-67 kmph

Very Severe: Wind speed > 67 kmph

Sea State

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

Cyclone

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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