

2026-01-24

Time of Issue: 13:20:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and warning:

A fresh wet spell with scattered to Fairly widespread rainfall/snowfall with **lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** over Jammu-Kashmir-Ladakh, Himachal Pradesh and Uttarakhand on 27th & 28th January. **Isolated heavy rainfall/snowfall also likely over Jammu-Kashmir and Himachal Pradesh 27th January and Scattered to fairly widespread** light to moderate rainfall **lightning & gusty winds speed reaching 30-40 kmph gusting to 60 kmph** over adjoining plains of northwest India and Madhya Pradesh during the same period.

Isolated **Hailstorm** activity also likely over Jammu-Kashmir, Himachal Pradesh on 27th, Uttarakhand on 27th & 28th January.

Thunderstorm activity accompanied with lightning also likely over Tamil Nadu, Puducherry & Karaikal on 24th & 25th and over Kerala & Mahe on 26th **with isolated heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal on 24th & 25th January.

Forecast of minimum temperatures:

No significant change in minimum temperatures likely over Northwest India during next 2 days and gradual rise by 4-6°C during subsequent 2-3 days and gradual fall by 3-5°C thereafter during subsequent next 2 days.

No significant change in minimum temperatures likely over Central India during next 2 days and gradual rise by 3-5°C during subsequent 2-3 days and gradual fall by 3-5°C during subsequent 2 days.

Gradual rise in minimum temperatures by 2-4°C over Maharashtra during next 3 days and no significant change thereafter.

Gradual rise in minimum temperatures by 2-4°C over Gujarat during next 3 days and gradual fall by 3-5°C during subsequent 4 days.

No significant change in minimum temperatures likely over rest parts of the country.

Dense Fog, Cold wave & Cold day Warnings:

Dense to very dense fog conditions likely during morning/ night hours in some/isolated pockets over Punjab and Haryana & Chandigarh on 25th-26th January.

Dense fog conditions also likely during morning/night hours in isolated pockets over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim on 25th-26th; Madhya Pradesh on 25th January

Cold wave conditions likely in isolated pockets over Himachal Pradesh, Punjab, Haryana Chandigarh, Rajasthan on 25th & 26th January.

Cold day conditions likely in isolated pockets over north Rajasthan on 24th January.

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Main Weather Observations:

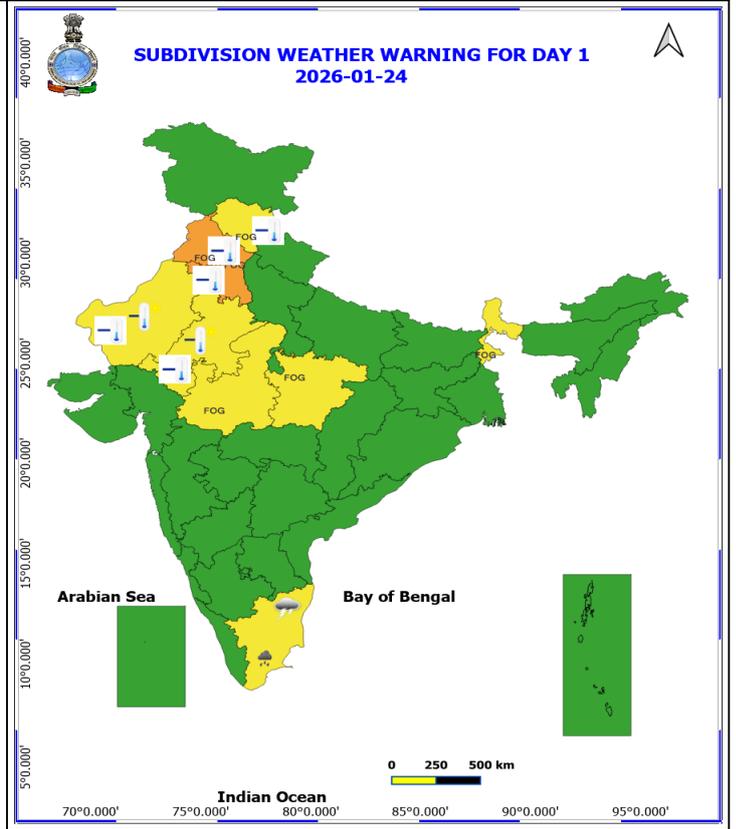
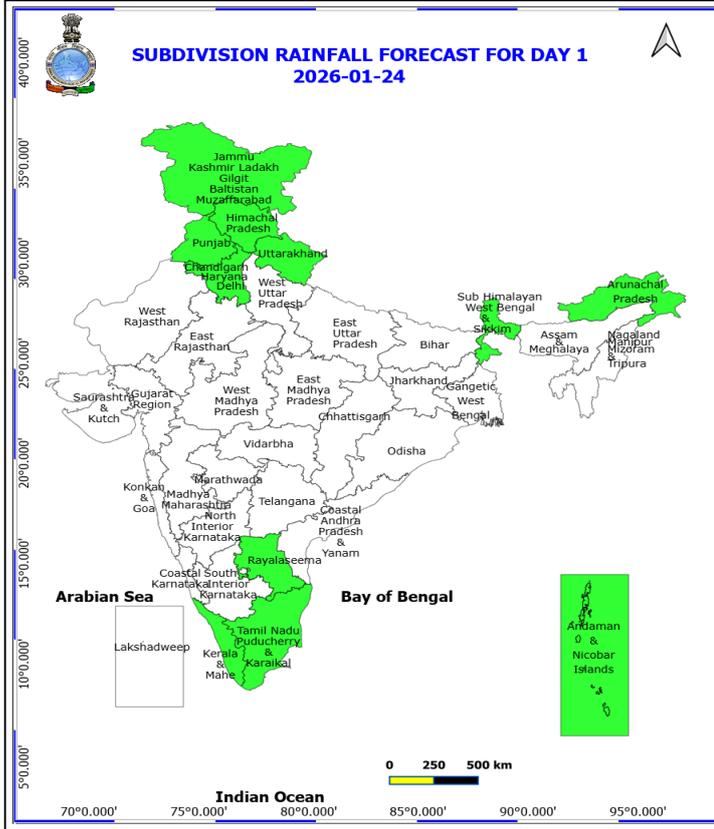
- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Uttarakhand, Haryana-Chandigarh-Delhi, Himachal Pradesh and Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad; **at many places** over Punjab; **at a few places** over Lakshadweep; **at isolated places** over Andaman & Nicobar Islands, West Rajasthan, East Rajasthan, West Madhya Pradesh, Rayalaseema and Tamil Nadu, Puducherry & Karaikal; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad**: Batote (dist Ramban) 12; Badarwah (dist Doda), Udhampur(IAF) (dist Udhampur) 7 Each; **Himachal Pradesh**: Kothi (dist Kullu) 10; Dharampur (dist Solan) 9; PTO Gondla (dist Lahaul & Spiti) 8; Solan (dist Solan), Kandaghat (dist Solan), Keylong (dist Lahaul & Spiti), Khadralla (dist Shimla), Kufri AWS (dist Shimla) 7 Each; **Uttarakhand**: Kapkot (dist Bageshwar) 9; **Punjab**: Gurdaspur AMFU (dist Gurdaspur) 8.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today):**Heavy to very heavy rain** at isolated places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad. **Heavy rain** at isolated places over Uttarakhand, Punjab and Himachal Pradesh.
- ❖ **Fog Condition Observed (at 0830 hours of today)**: **Very Dense fog(visibility <50 m) conditions** prevailed in isolated pockets of Odisha and **dense fog (visibility 50-199 m) conditions** prevailed in isolated pockets of Meghalaya.
- ❖ **Visibility reported (at 0830 hours of today)**: **Odisha**: Dhenkanal 20m; **Meghalaya**: Barapani 100m.
- ❖ **Hailstorm** recorded over Jammu, Himachal Pradesh, west Uttar Pradesh.
- ❖ **Light to moderate rainfall/snowfall occurred at many places** overJammu-Kashmir-Ladakh, Himachal Pradesh, Uttarakhand.
- ❖ **Minimum Temperature Departures (as on 24-01-2026)**: above normal by (2°C to 5°C) at many places over Madhya Pradesh; at a few places over Bihar, Uttar Pradesh, Andaman & Nicobar Islands; at isolated places over Madhya Maharashtra, Vidarbha, Coastal Andhra Pradesh & Yanam, Tamil Nadu and below normal by (-2°C to -4°C) over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana Chandigarh & Delhi, West Rajasthan, Saurashtra & Kutch, Interior Karnatakaand near normal over rest parts of the country. **The lowest minimum temperature** of 0.8°C is reported at BHATINDA (PUNJAB) over the Plains of India.
- ❖ **Maximum Temperature Departures (as on 23-01-2026)**: **below normal(-1.6°C to -3.0°C)** at many places over North Interior Karnataka; at isolated places over Haryana-Chandigarh-Delhi and Punjab. **appreciably below normal(-5.0°C to -3.1°C)** at few places over West Rajasthan. **The highest maximum temperature** of 35.4°C is reported at KARWAR (KARNATAKA).

Meteorological Analysis (Based on 0830 hours IST)

- The **Western Disturbance** as a low pressure area over Jammu & adjoining Pakistan now seen as a **cyclonic circulation** over Jammu & adjoining Pakistan between 3.1 & 7.6 km above mean sea level.
- An **induced cyclonic circulation** lies over north Punjab & neighbourhood at 1.5 km above mean sea level.
- An **upper air cyclonic circulation** lies over central parts of South Uttar Pradesh at 0.9 km above mean sea level.
- The **trough** in easterlies roughly along Long. 85°E to the south of Lat. 10°N now lies over southwest Bay of Bengal off Tamil Nadu Sri Lanka coast upto 0.9 km above mean sea level.
- **Subtropical westerly Jet Stream** with core winds of the order of 130 knots at 12.6 km above mean sea level prevails over Northeast India.
- A fresh **western disturbance** is likely to affect northwest India from 26th January 2026.
- The **upper air cyclonic circulation** over South Interior Karnataka & neighbourhood has become less marked.
- The **trough** from cyclonic circulation associated with a low pressure area over Jammu & adjoining Pakistan to northeast Arabian sea has become less marked.

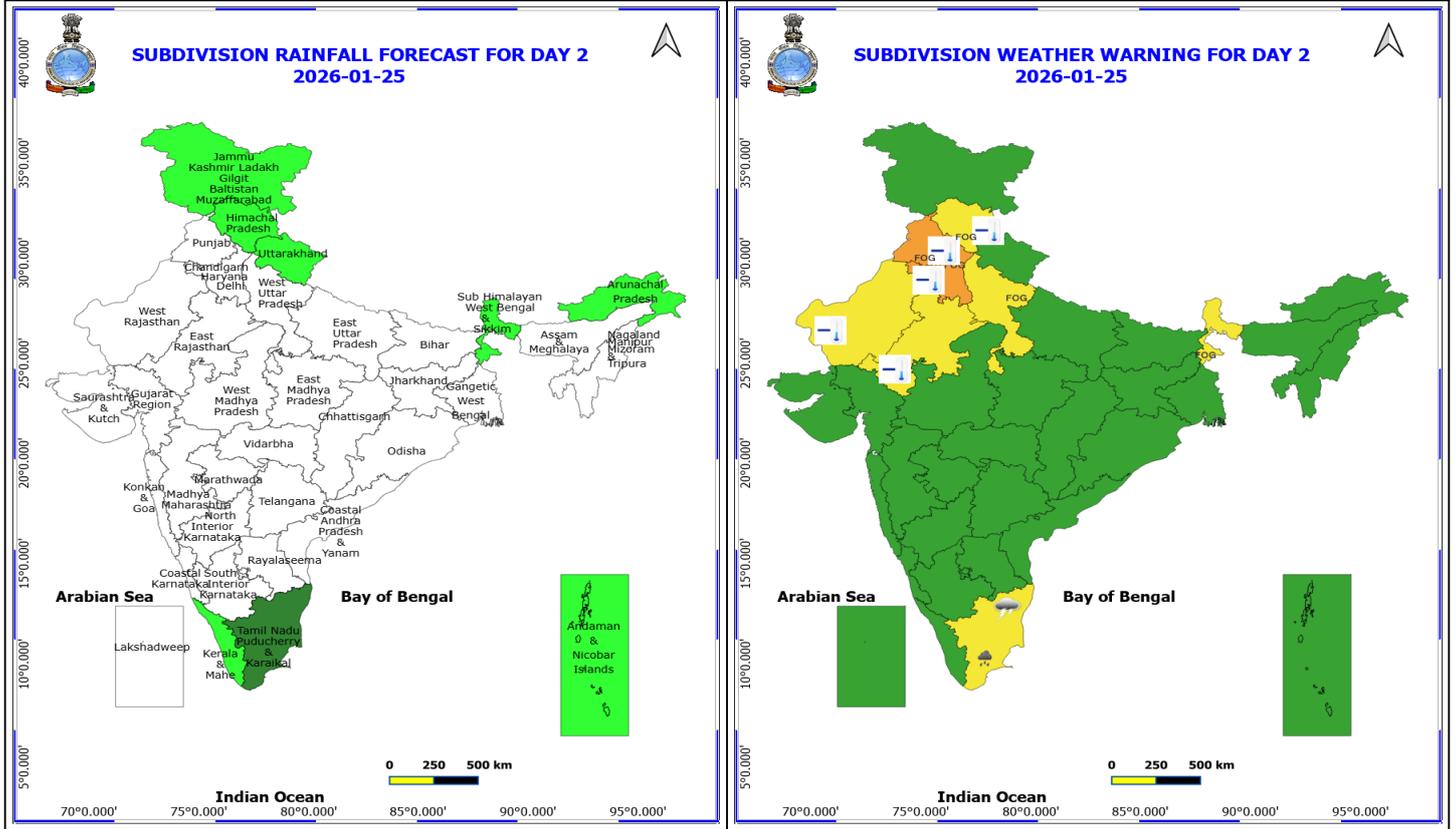
Weather Outlook for subsequent 3 days

- Isolated/Scattered rainfall/snowfall activity likely over Western Himalayan Region.
- Isolated/Scattered rainfall activity likely over Punjab, Uttar Pradesh, Tamil Nadu and Madhya Pradesh.



24 January (Day 1)

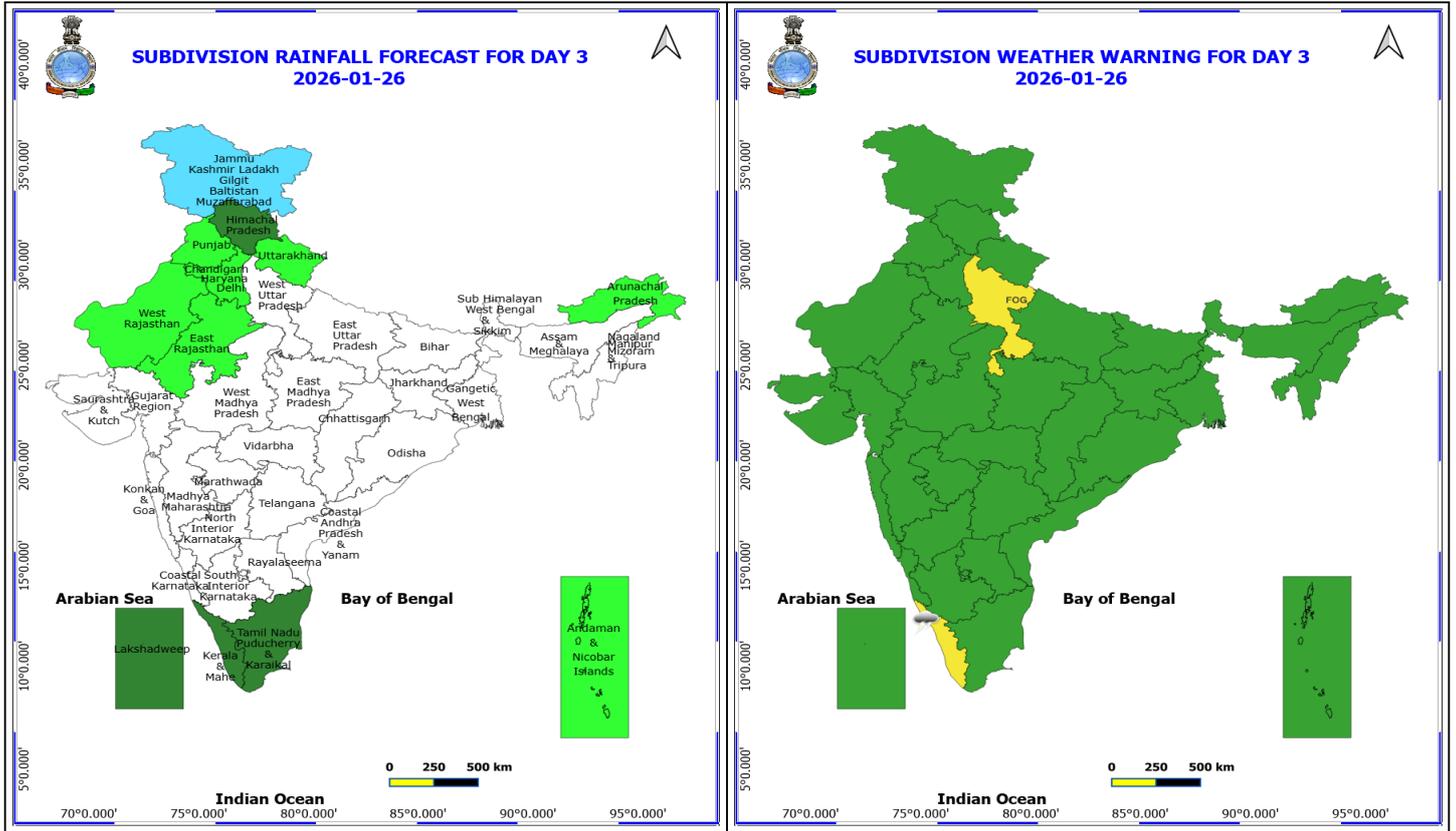
- ❖ **Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Punjab and Rajasthan.
- ❖ **Cold Day conditions** very likely at isolated places over Rajasthan.
- ❖ **Dense Fog** very likely at isolated places over Himachal Pradesh, Madhya Pradesh and Sub Himalayan West Bengal & Sikkim.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ Squally weather with speeds of 40 to 50 kmph gusting up to 60 kmph is likely to prevail over many parts of the north Arabian Sea; along and off north Gujarat and Oman coast over many parts of the southwest, Bay of Bengal; along & off north Tamil Nadu & Sri Lanka coasts.
- ❖ Squally winds with speed reaching 45 to 55 kmph gusting up to 65 kmph is likely to prevail over few parts of the southwest Arabian Sea, along and off the Somalia coasts.



25 January (Day 2)

- ❖ **Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Punjab and Rajasthan.
- ❖ **Dense Fog** very likely at isolated places over Himachal Pradesh, Sub Himalayan West Bengal & Sikkim and West Uttar Pradesh.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ Squally weather with speed of 40 to 50 kmph gusting up to 60 kmph is likely to prevail over many parts of the southwest, Bay of Bengal; along & off north Tamil Nadu & Sri Lanka coasts; over Gulf of Mannar & Comorin area.

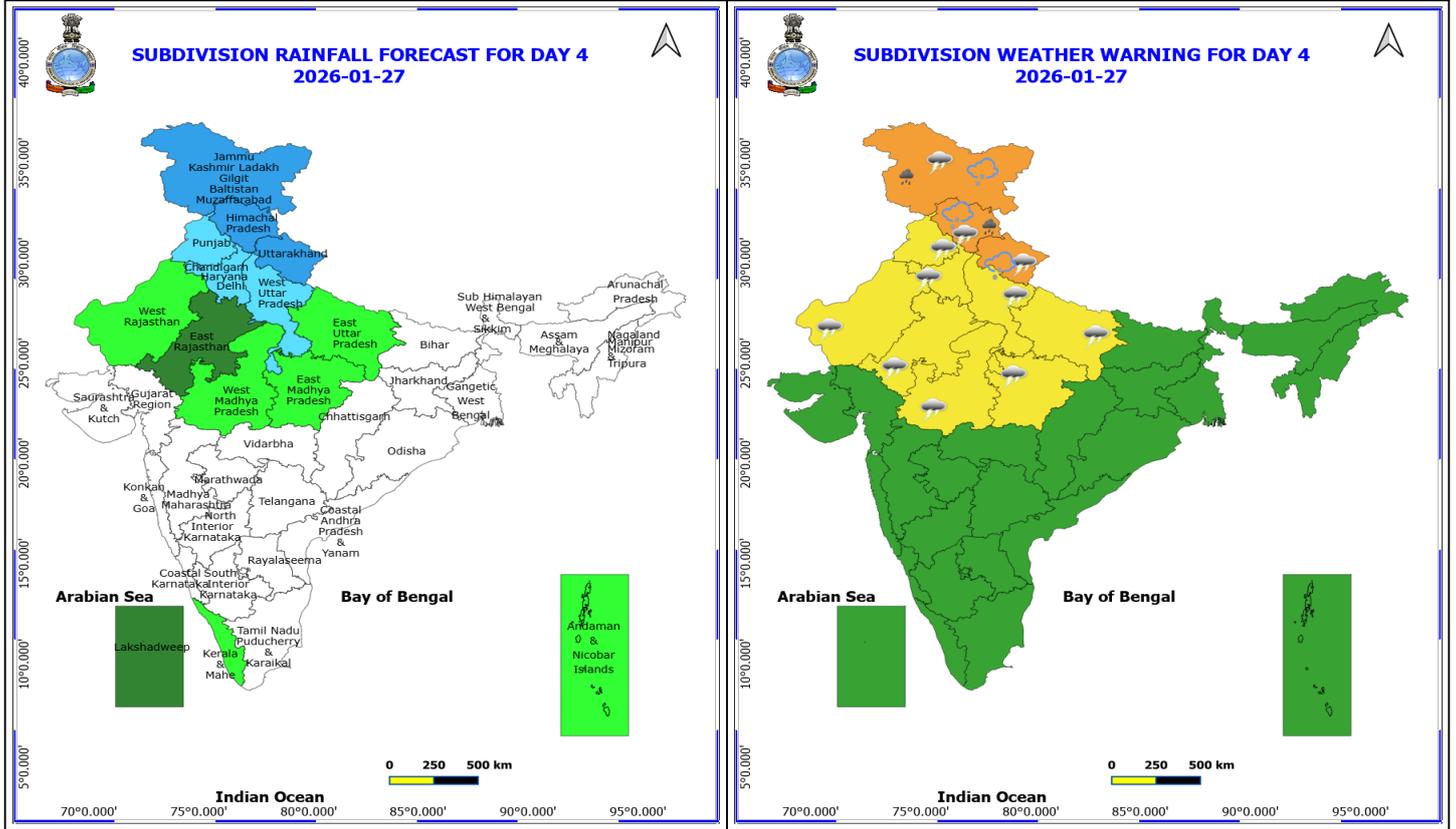
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26 January (Day 3)

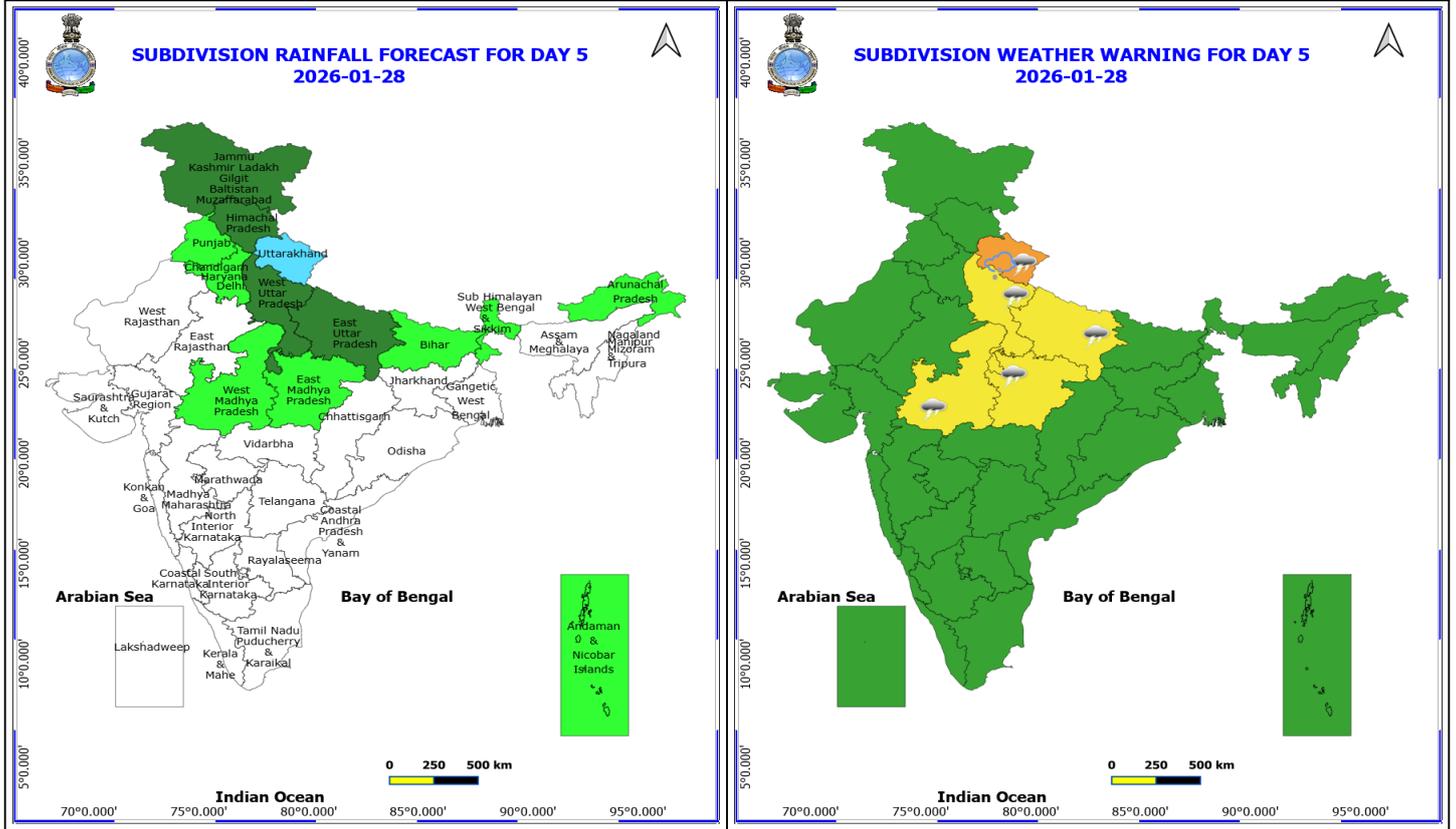
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe.
- ❖ **Dense Fog** very likely at isolated places over West Uttar Pradesh.
- ❖ Squally weather with speeds of 40 to 50 kmph gusting up to 60 kmph is likely to prevail over Gulf of Mannar, Comorin area.

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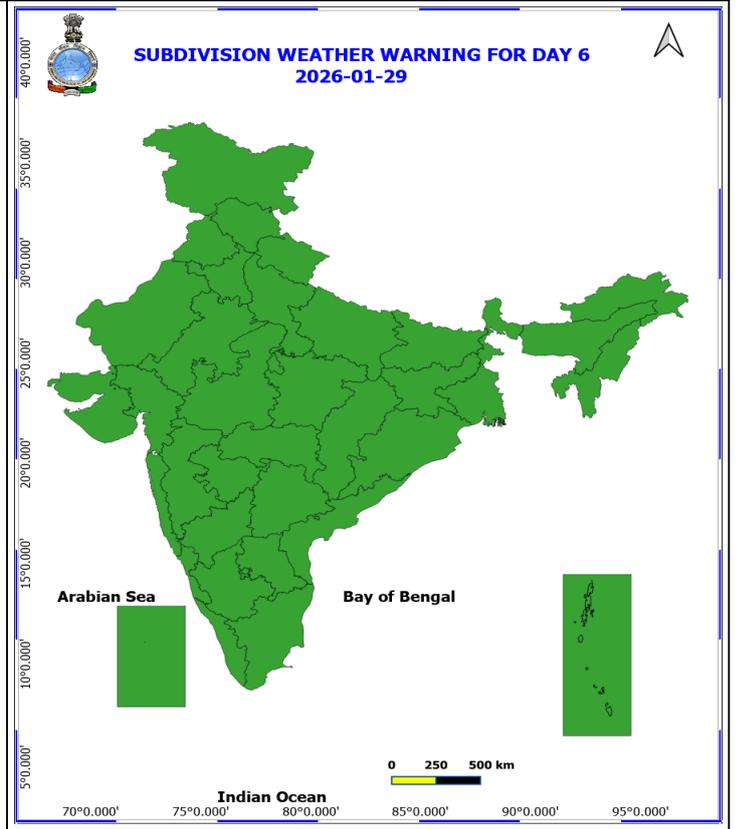
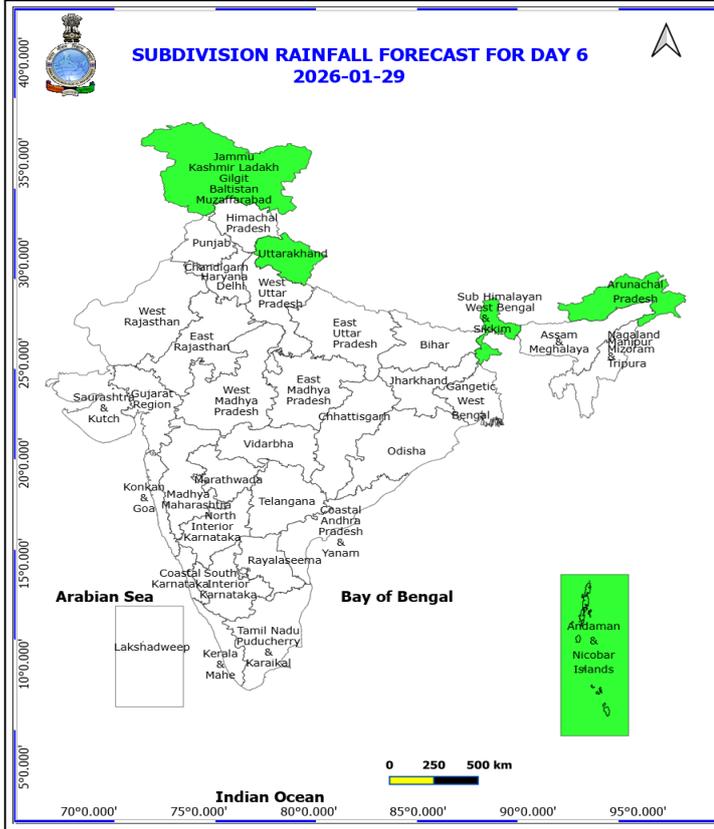
27 January (Day 4)

- ❖ **Heavy Rainfall** likely at isolated places over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with Hailstorm** likely at isolated places over Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over East Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Madhya Pradesh, Rajasthan and Uttarakhand.
- ❖ Squally weather with speeds of 40 to 50 kmph gusting up to 60 kmph is likely to prevail over Gulf of Mannar, Comorin area.



28 January (Day 5)

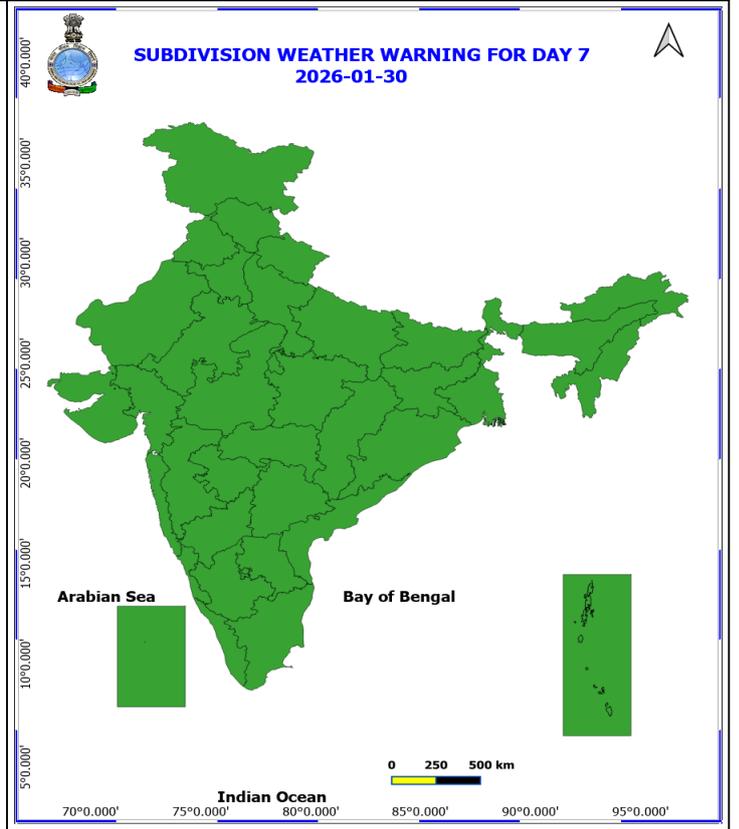
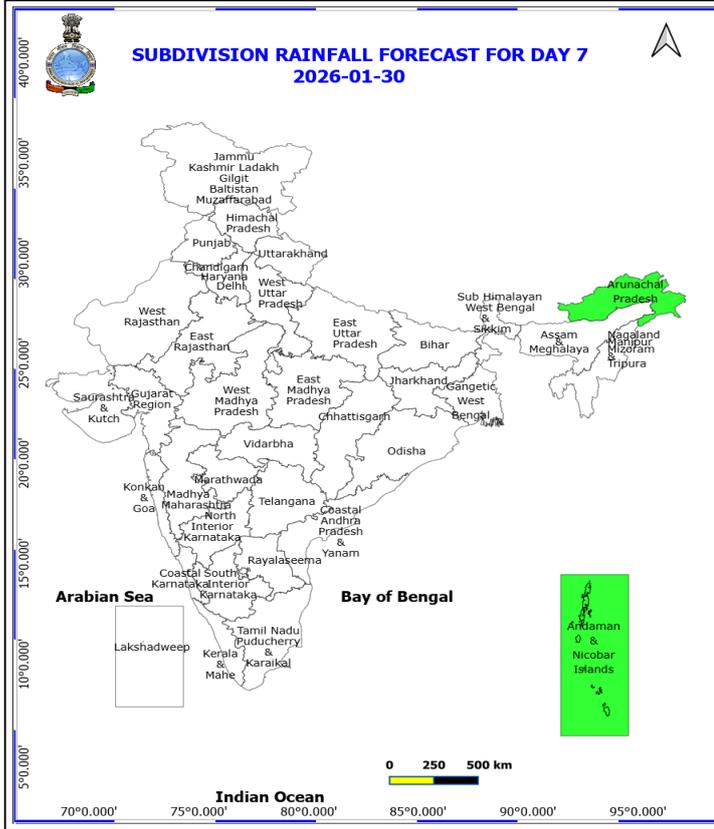
- ❖ **Thunderstorm accompanied with Hailstorm** likely at isolated places over Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over East Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Madhya Pradesh and Uttarakhand.
- ❖ **Squally weather with speeds of 40 to 50 kmph gusting up to 60 kmph** is likely to prevail over Comorin area.



29 January (Day 6)

No Warning
No Fishermen Warning

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30 January (Day 7)

No Warning

No Fishermen Warning

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	24- Jan	25- Jan	26- Jan	27- Jan	28- Jan	29- Jan	30- Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL						
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	DRY	ISOL	ISOL	ISOL
3	ASSAM & MEHGHALAYA	DRY						
4	N. M. M. & T.	DRY						
5	S.H. WEST BENGAL & SIKKIM	ISOL	ISOL	DRY	DRY	ISOL	ISOL	DRY
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	DRY						
8	JHARKHAND	DRY						
9	BIHAR	DRY	DRY	DRY	DRY	ISOL	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	ISOL	SCT	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	FWS	SCT	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	ISOL	WS	FWS	ISOL	DRY
13	HARYANA, CHD & DELHI	ISOL	DRY	ISOL	FWS	ISOL	DRY	DRY
14	PUNJAB	ISOL	DRY	ISOL	FWS	ISOL	DRY	DRY
15	HIMACHAL PRADESH	ISOL	ISOL	SCT	WS	SCT	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	ISOL	ISOL	FWS	WS	SCT	ISOL	DRY
17	WEST RAJASTHAN	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	ISOL	SCT	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	ISOL	ISOL	DRY	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	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	SCT	SCT	DRY	DRY	DRY	DRY
32	COSTAL KARNATAKA	DRY						
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	DRY						
35	KERALA	ISOL	ISOL	SCT	ISOL	DRY	DRY	DRY
36	LAKSHDWEEP	DRY	DRY	SCT	SCT	DRY	DRY	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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Fig. 1: Maximum Temperatures Dated 2026-01-23

Fig. 2: Departure of Maximum Temp. Dated 2026-01-23

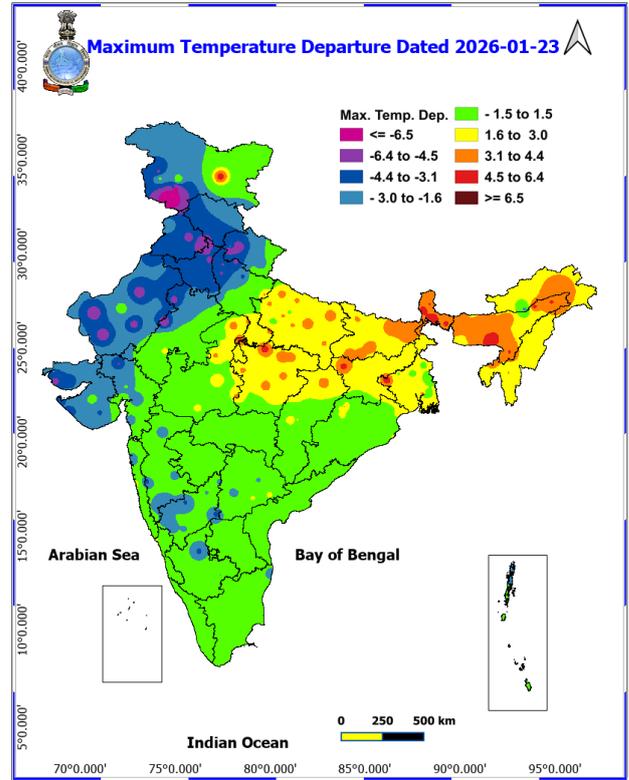
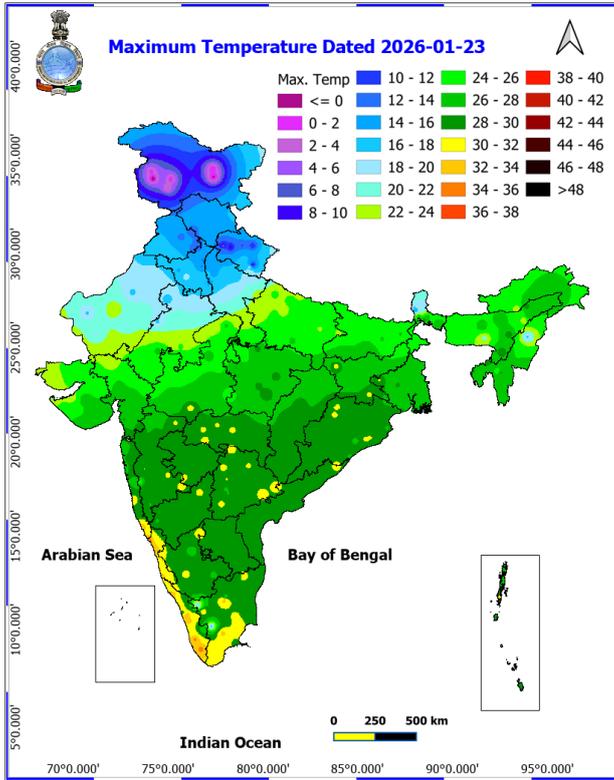
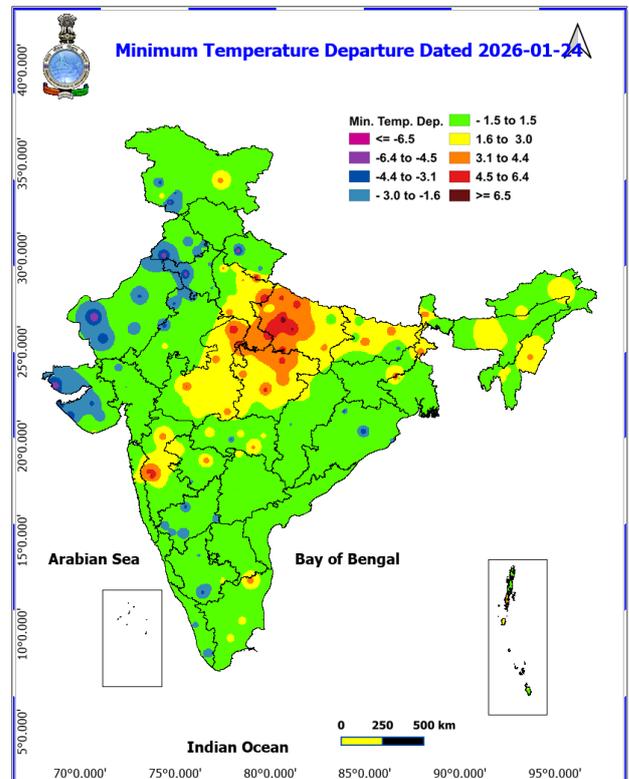
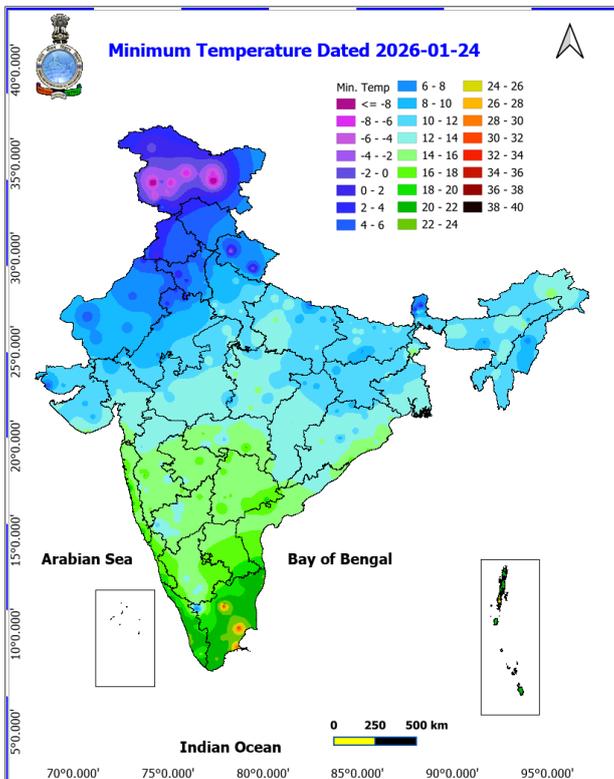


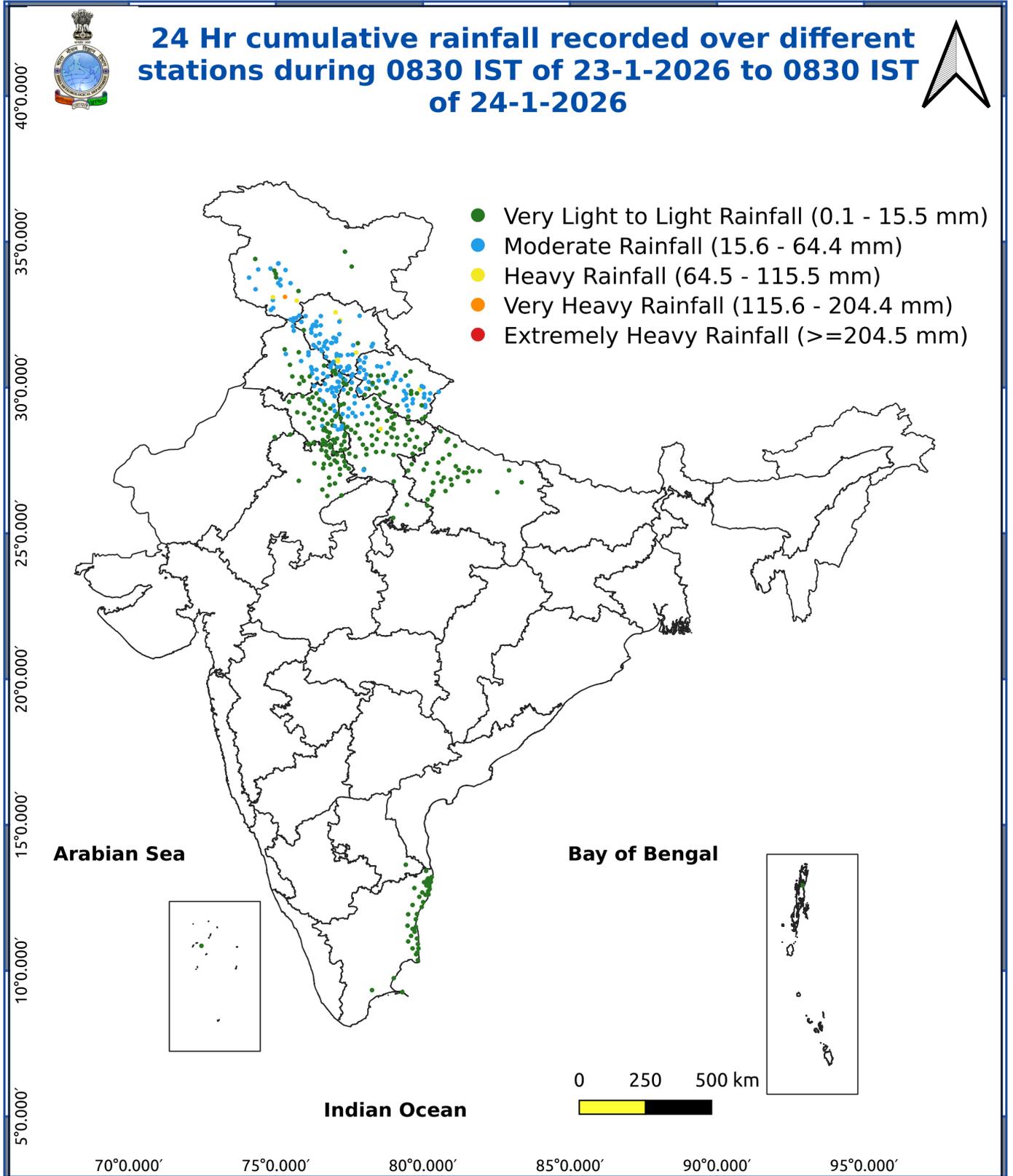
Fig. 3: Minimum Temperatures Dated 2026-01-24

Fig. 4: Departure of Minimum Temp. Dated 2026-01-24



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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 likely during morning/ night hours in some/isolated pockets over Punjab and Haryana & Chandigarh on 25th-26th January.
- **Dense fog conditions also likely during morning/night hours in isolated pockets over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim on 25th-26th; Madhya Pradesh on 25th January**

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 and action suggested due to isolated thunderstorm with lightning/gusty & Squally winds & Hailstorm over

- **Hailstorm** activity also likely over Jammu-Kashmir, Himachal Pradesh on 27th, Uttarakhand on 27th & 28th January.
- **Thunderstorm with lightning & winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Tamil Nadu, Puducherry & Karaikal on 24th & 25th and over Kerala & Mahe on 26th; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, West Uttar Pradesh, East Rajasthan on 27th January.

Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Heavy Rainfall

In **Jammu & Kashmir**, ensure proper drainage to drain out excess water from wheat, mustard, chickpea, pea and vegetables fields. Gently shake the fruit bearing trees to remove snow immediately from the branches.

In **Himachal Pradesh**, ensure proper drainage to drain out excess rainwater from the standing crops, vegetable fields and fruit orchards. Gently shake the fruit bearing trees to remove snow immediately from the branches.

In **Tamil Nadu**, make necessary arrangements to drain out excess rain water from the standing crops and vegetable fields. Strengthen supports and pandals in vegetable fields.

Agromet advisories for likely impact of Hailstorm

Use hail nets to protect orchards and vegetable plants in Jammu & Kashmir, Himachal Pradesh and Uttarakhand.

Agromet advisories for likely impact of Cold Waves / Low Temperatures

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

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.

Livestock / Poultry

Keep the animals inside the shed during heavy rainfall/ Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.

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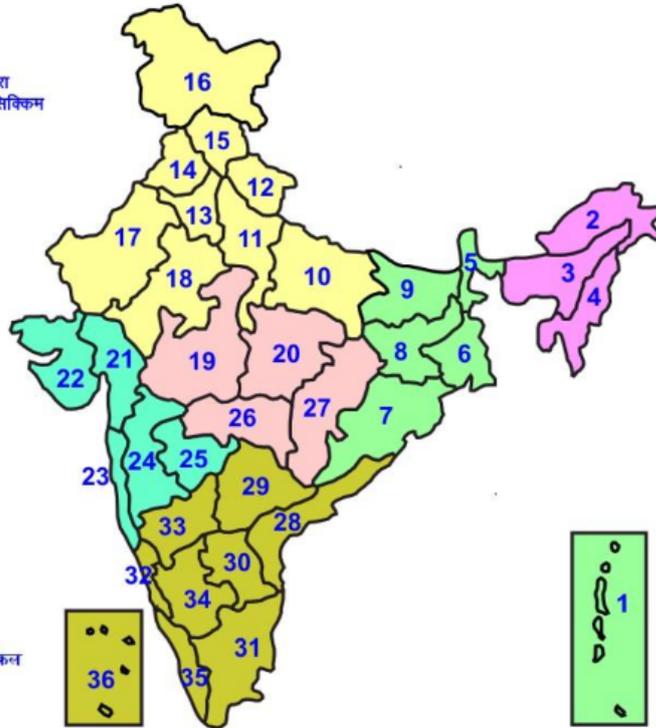
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To protect from cold, keep cattle inside the sheds during night and provide dry bedding. Also keep the chicks warm by providing artificial light in the poultry sheds.

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"

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

For more details kindly visit <https://mausam.imd.gov.in> or contact 011-2434-4599

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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°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 $\geq 37^{\circ}\text{C}$



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 $> 6.4^{\circ}\text{C}$.



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 $\leq 15^{\circ}\text{C}$



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 $\leq -6.5^{\circ}\text{C}$



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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