

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 07<sup>th</sup> December, 2024 Time of Issue: 1415 hours IST

Subject: i. A Low Pressure area lies over southeast Bay of Bengal & adjoining east Equatorial Indian Ocean. It is likely to cause heavy rainfall over South Peninsular India during 10<sup>th</sup> -13<sup>th</sup> December.

ii. Under the influence of a Western Disturbance, light/moderate rainfall/snowfall likely over Western Himalayan Region during 08<sup>th</sup>-11<sup>th</sup> December, and light isolated rainfall over Punjab, Haryana, Chandigarh, Uttar Pradesh on 08<sup>th</sup> & 09<sup>th</sup> December, 2024.

# i. Realised weather during past 24 hours till 0830 hours IST of today

### **Rainfall realized over the country: (details in Annexure I)**

No significant rainfall realised during past 24 hours.

### Fog conditions realized over the country:

- Dense fog (visibility 50-200 m) reported in morning hours at isolated pockets of Sub-Himalayan West Bengal, Meghalaya, Manipur.
- Visibility reported (in metre): Sub-Himalayan West Bengal: Cooch Behar 50; Meghalaya: Barapani 100; Manipur: Imphal 100.

#### Weather Systems and associated weather:

Under the influence of the upper air cyclonic circulation over southeast Bay of Bengal & adjoining east Equatorial Indian Ocean, a low pressure area has formed over the same region at 0830 hours IST of today, the 07th December. It is likely to move west-northwestwards, become more marked during next 24 hours. It is very likely to continue to move west-northwestwards thereafter and reach over southwest Bay of Bengal off Sri-Lanka – Tamil Nadu coasts around 11th December. Under its influence, the following weather is expecting:

**Tamil Nadu, Puducherry & Karaikal:** Light to moderate rainfall at many places with **heavy rainfall** at isolated places very likely over Tamil Nadu, Puducherry & Karaikal during 10<sup>th</sup> -13<sup>th</sup> with **very heavy rainfall** at isolated places over coastal Tamil Nadu on 12<sup>th</sup> December.

**Coastal Andhra Pradesh & Yanam:** Light to moderate rainfall at many places with **heavy rainfall** at isolated places is very likely over Coastal Andhra Pradesh & Yanam on 11<sup>th</sup> & 12<sup>th</sup> December.

**Kerala & Mahe:** Light to moderate rainfall at many places with **heavy rainfall** at isolated places is very likely over Kerala & Mahe during 11<sup>th</sup>-13<sup>th</sup> December.

**Fisherman Warning:** Fishermen are advised not to venture into Southeast Bay of Bengal during 07<sup>th</sup> - 11<sup>th</sup>; Southwest Bay of Bengal during 09<sup>th</sup> - 12<sup>th</sup>; Westcentral Bay of Bengal on 11<sup>th</sup> & 12<sup>th</sup> December.

☆ A fresh Western Disturbance seen as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 68°E to the north of Lat. 28°N.It is very likely to cause

**Light/moderate rainfall/snowfall** over Western Himalayan Region during 08<sup>th</sup>-11<sup>th</sup> December, 2024 and light isolated rainfall over Punjab, Haryana, Chandigarh on 08<sup>th</sup> & 09<sup>th</sup> December, 2024.

**Dense fog conditions** very likely to prevail during late night/early morning hours in isolated pockets of Assam & Meghalaya & Nagaland, Manipur, Mizoram & Tripura till 09<sup>th</sup>, Punjab, Haryana, Chandigarh, Jharkhand during 08<sup>th</sup>-10<sup>th</sup>, Uttar Pradesh during 09<sup>th</sup>-12<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim till 10<sup>th</sup> and Himachal Pradesh during 10<sup>th</sup> -12<sup>th</sup> December morning hours.

**Cold wave** conditions very likely in isolated pockets over North Rajasthan during 09<sup>th</sup>-13<sup>th</sup> December.

#### ii. Temperature conditions and Forecast:

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

Minimum temperatures are in the range of 5-10°C in the Northwest India, 10-15°C in the Indo Gangetic plains & eastern parts of India and 15-20°C over Central India, Gujarat State & Maharashtra. Minimum temperatures are **markedly above normal (5°C or more)** at most places over Telangana; at many places over Rayalaseema, Maharashtra; at isolated places over Chhattisgarh, Odisha and Coastal Andhra Pradesh & Yanam; **appreciably above normal (3°C to 5°C)** at isolated places over Tamil Nadu, Puducherry & Karaikal; **above normal (1°C to 3°C)** at many places over Coastal Karnataka; at a few places over Kerala & Mahe. These are **appreciably below normal (-3°C to -5°C)** at isolated places over Haryana-Chandigarh and East Uttar Pradesh; **below normal (-1°C to -3°C)** at many places over Jammu-Kashmir; at isolated places over West Rajasthan and near normal over rest parts of the country. Today, **the lowest minimum temperature** of **4.5°C** is reported at Hissar (**Haryana**) over the plains of the country.

#### Forecast of temperature:

- Gradual rise in minimum temperatures by 2-3°C likely over Northwest India (except Rajasthan) during next 2 days and gradual fall by 2-3°C thereafter. Gradual fall in minimum temperatures by 2-3°C likely over Rajasthan during next 4-5 days.
- Gradual rise in minimum temperatures by 2-3°C likely over East India during next 3 days and then gradual fall by 2-3°C thereafter.
- Gradual fall in minimum temperatures by 3-4°C likely over Maharashtra during next 4 days.
- Gradual fall in minimum temperatures by 2-4°C likely over Gujarat Region during next 2 days and no significant change thereafter.
- No significant change in minimum temperatures likely over Central India during next 2 days and gradual fall by 2-4°C thereafter.

#### iii. Weather conditions and forecast over Delhi/NCR during 07th to 10th Dec. 2024 (Annexure IV)

#### For more details, kindly refer National Weather Bulletin:

https://mausam.imd.gov.in/responsive/all\_india\_forcast\_bulletin.php For District wise warnings refer: <u>https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php</u>

**ANNEXURE II** 

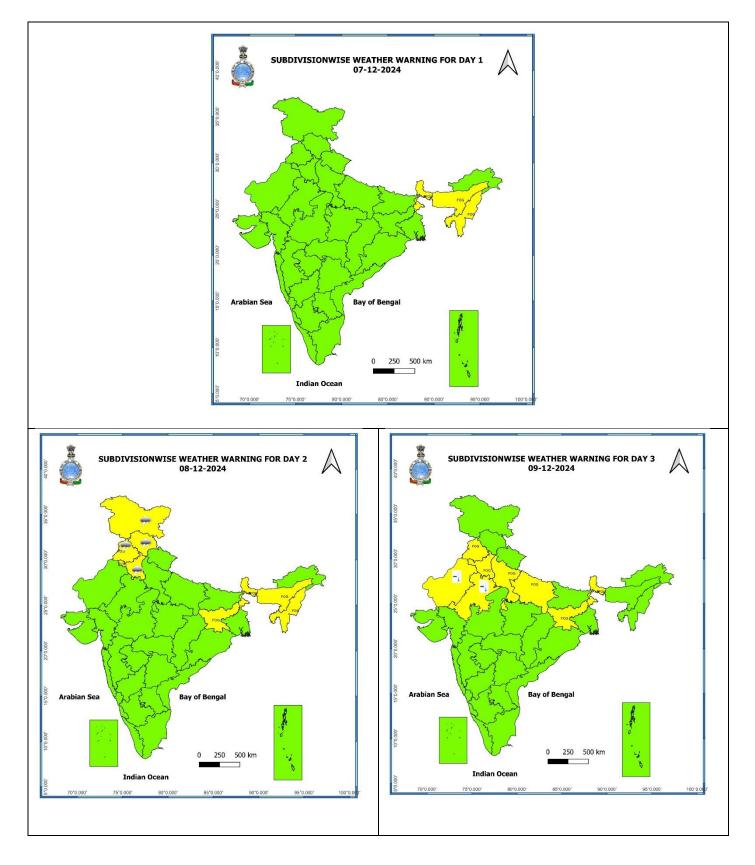
### Rainfall recorded during past 24 hours till 0830 hours IST of today 07.12.2024 (in cm):

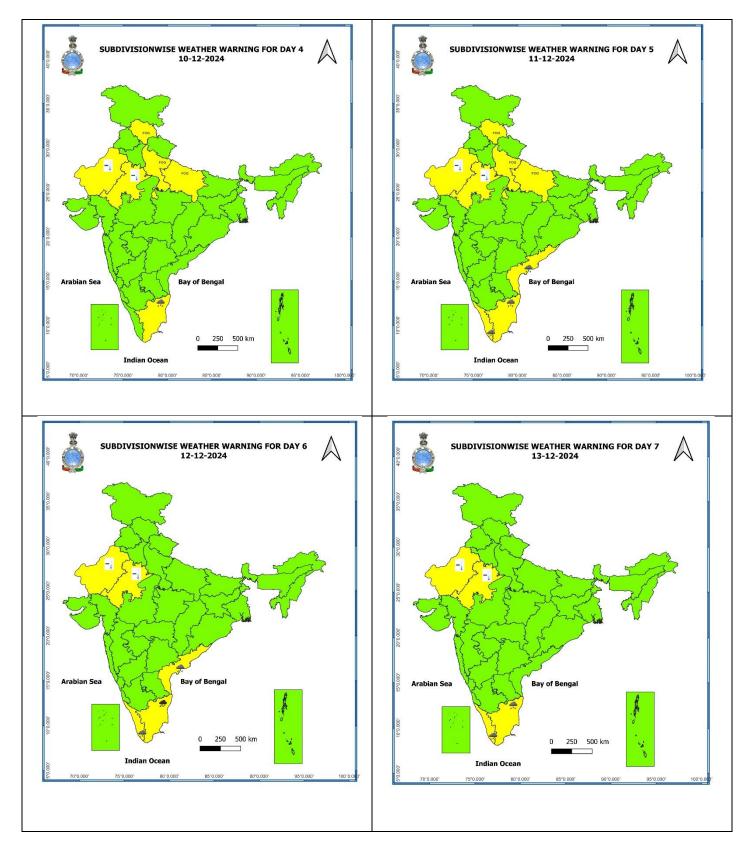
- Telangana: Alladurg (dist Medak) 6, Jainoor (dist Kumaram Bheem) 5,
- Coastal Karnataka: Castle Rock (dist Uttara Kannada) 5,
- \* North Interior Karnataka: Chittapur (dist Kalaburgi) 4.

ANNEXURE II										
7 Days Rainfall Forecast										
		07-	08-	09-	10-	11-	12-	13-		
S.		Dec								
No.	Subdivision	Day								
		1	2	3	4	5	6	7		
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	FWS	FWS	FWS		
2	ARUNACHAL PRADESH	SCT	SCT	SCT	ISOL	DRY	DRY	DRY		
3	ASSAM & MEGHALAYA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY		
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	DRY								
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY		
6	GANGETIC WEST BENGAL	DRY	DRY	ISOL	DRY	DRY	DRY	DRY		
7	ODISHA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY		
8	JHARKHAND	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY		
9	BIHAR	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY		
10	EAST UTTAR PRADESH	DRY								
11	WEST UTTAR PRADESH	DRY								
12	UTTARAKHAND	DRY	SCT	SCT	DRY	DRY	DRY	DRY		
13	HARYANA CHANDIGARH & DELHI	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY		
14	PUNJAB	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY		
15	HIMACHAL PRADESH	ISOL	SCT	SCT	ISOL	DRY	DRY	DRY		
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	SCT	ISOL	DRY	DRY	DRY		
17	WEST RAJASTHAN	DRY								
18	EAST RAJASTHAN	DRY								
19	WEST MADHYA PRADESH	DRY								
20	EAST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY		
21	GUJARAT REGION	DRY								
22	SAURASHTRA & KUTCH	DRY								
23	KONKAN & GOA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY		
24	MADHYA MAHARASHTRA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY		
25	MARATHAWADA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY		
26	VIDARBHA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY		
27	CHHATTISGARH	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY		
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	ISOL	ISOL	FWS	SCT		
29	TELANGANA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY		
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	FWS		
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	SCT	FWS	FWS		
32	COASTAL KARNATAKA	ISOL	ISOL	ISOL	DRY	DRY	DRY	FWS		
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	DRY	DRY	DRY	ISOL		
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	DRY	ISOL	SCT		
35	KERALA & MAHE	FWS	SCT	SCT	SCT	SCT	SCT	WS		
36	LAKSHADWEEP	SCT	SCT	SCT	SCT	SCT	SCT	FWS		

• As the lead period increases forecast accuracy decreases.

#### **ANNEXURE III**





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

#### Weather Realised (past 24 hours) & forecast (during 07th Dec. to 10th Dec. 2024) over Delhi/NCR

#### **Past Weather:**

There has been a fall in minimum temperature upto 02°C over Delhi/NCR during past 24hr. The Maximum and Minimum temperature over Delhi is in the range of 23 to 25°C and 07 to 09°C respectively. The maximum temperature was near normal and minimum temperature was below normal upto -1 to -4°C over most places. Mainly smog/ mist condition with predominant surface wind from northwest direction with wind speed reaching 10 to 16 kmph prevailed on 06.12.2024. Mainly clear sky condition with wind speed less than 10 kmph northwest direction prevailed over the region in the forenoon today.

#### Weather Forecast:

**07.12.2024**: Mainly clear sky. The predominant surface wind is likely to be northwest direction with wind speed less than 08 kmph till evening. It would decrease thereafter becoming less than 06 kmph from southeast direction during night. Smog/mist is likely in the evening/night.

**08.12.2024**: Partly cloudy sky and possibility of very light rain/drizzle. The predominant surface wind is likely to be from southeast direction with speed less than 10 kmph during morning hours. Shallow fog is most likely and low probability of moderate fog over the region in the morning. The wind speed will increase thereafter becoming less than 16 kmph from southeast direction during afternoon. It will decrease thereafter becoming less than 10 kmph from southeast direction during and night. Mist is likely in the evening/night.

**09.12.2024**: Mainly clear sky. The predominant surface wind is likely to be from southeast direction with speed less than 08 kmph during morning hours. Smog/moderate fog is likely in the morning. The wind speed will gradually decrease becoming 04-06 kmph from variable direction during afternoon. It will again decrease thereafter becoming less than 04 kmph from variable direction during evening and night. Smog/shallow fog is likely in the evening/night.

**10.12.2024**: Mainly clear sky. The predominant surface wind is likely to be from variable direction with wind speed less than 04 kmph during morning hours. Smog/moderate fog in the morning. The wind speed will increase thereafter becoming 08-10 kmph from northwest direction during afternoon. It will gradually decrease becoming less than 06 kmph from northwest direction during evening and night. Smog/shallow fog is likely in the evening/night.

#### Impact expected due to dense fog in the night /morning hour:

#### 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/severe cold wave conditions over north Rajasthan

- An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.
- Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.
- Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

### Action suggested:

- Wear several layers of loose fitting, light weight; warm woolen clothing.
- Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm woolen clothing rather than one layer of heavy cloth.
- Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- Avoid or limit outdoor activities.
- Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.
- Warm the affected area of the body slowly with lukewarm water; do not rub the skin vigorously.
- If the affected skin area turns black, immediately consult a doctor.
- Maintain ventilation while using Heaters to avoid inhaling toxic fumes.
- Take safety measures while using electrical and gas heating devices.
- Extreme care needed for vulnerable people.
- Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- Protect livestock from cold weather.

# Legends & abbreviations:

- ✤ Heavy Rain:64.5-115.5mm; Very Heavy Rain:115.6-204.4mm; Extremely Heavy Rain: >204.4mm.
- Obsy: Observatory; AWS: 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.



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

		<u>FENDS</u>	
1. अंडमान और निकोबार द्वीप	ासमूह		1. Andaman & Nicobar Islands
2. अरुणाचल प्रदेश 3. असम और मेघालय			2. Arunachal Pradesh
. असम आर मयालय 4. नागालैंड, मणिपुर, मिजोरम	और निमय		3. Assam & Meghalaya
4. नागालड, माणपुर, मिजारम 5. उप-हिमालयी पश्चिम बंगाल	आर ।त्रपुर। और गिलिस्म		4. Nagaland, Manipur, Mizoram & Tripur
6. गंगीय पश्चिम बंगाल	जारासायकम		5. Sub-Himalayan West Bengal & Sikkim 6. Gangetic West Bengal
र. ओडिशा	and the second		7. Odisha
8. झारखंड			8. Jharkhand
9. बिहार	<b>16</b>		9. Bihar
10. पूर्वी उत्तर प्रदेश	15		10. East Uttar Pradesh
11. पश्चिम उत्तर प्रदेश	14 12		11. West Uttar Pradesh
12. उत्तराखंड	13		12. Uttarakhand
13. हरियाणा, चंडीगढ़ और दि	eef 17 5 m 11	ma E	13. Haryana, Chandigarh & Delhi
14. पंजाब		Sa fa	<b>3</b> 14. Punjab
15. हिमाचल प्रदेश	the per of german	man R	15. Himachal Pradesh
16. जम्मू और कश्मीर और लह		<b>1 8 ~ 6</b> {	16. Jammu & Kashmir and Ladakh
17. पश्चिम राजस्थान	22 The share	from the	17. West Rajasthan
18. पूर्वी राजस्थान	26 27	7 >	18. East Rajasthan
19. पश्चिम मध्य प्रदेश	25 25		19. West Madhya Pradesh
20. पूर्वी मध्य प्रदेश	23 24 29 29	M	20. East Madhya Pradesh
21. गुजरात	5 33 2 28	5	21. Gujarat
22. सौराष्ट्र	32 30		22. Saurashtra
23. कोंकण और गोवा	32 34		23. Konkan & Goa
24. मध्य महाराष्ट्र	Roman Company		24. Madhya Maharashtra
25. मराठवाड़ा	35, 31		<b>1</b> 25. Marathwada
26. विदर्भ	36		26. Vidarbha
27. छत्तीसगढ़	•		27. Chhattisgarh
28. तटीय आंध्र प्रदेश और यन	म		28. Coastal Andhra Pradesh & Yanam
29. तेलंगाना		29. Telangana	
30. रायलसीमा			30. Rayalaseema
31. तमिलनाडु, पुडुचेरी और व	नराईकल		31. Tamilnadu, Puducherry & Karaikal
32. तटीय कर्नाटक			32. Coastal Karnataka
33. आतंरिक उत्तरी कर्नाटक			33. North Interior Karnataka
34. आतंरिक दक्षिणी कर्नाटक	1		34. South Interior Karnataka
35. केरल और माहे			35. Kerala & Mahe
36. लक्षद्वीप			36. Lakshadweep
SPA	<b>FIAL DISTRIBU</b>	TION (%	of Stations reporting)
% Stations	Category	% Stations	Category
	read (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75 Fairly Wide			
51-75 Fairly wide	spread (FWS/Many Places)	1-25	isolated (ISOL)
	spread (FWS/Many Places)	1-25 	Isolated (ISOL)
Fog	Heavy Snow	– Cold Wav	Isolated (ISOL) Ve COLOUR CODED WARNING No Warning (No Action)
Fog			Isolated (ISOL) Ve COLOUR CODED WARNING No Warning (No Action)
Fog Heavy Rain	Heavy Snow	– Cold Wav	Isolated (ISOL)         ve       COLOUR CODED WARNING         No Warning (No Action)         Watch (Be Aware)         Frost       Alert (Be Prepared To Take Action)
Fog Heavy Rain Very Heavy Rain	الله Heavy Snow في Dust Storm	- Cold Way	Isolated (ISOL)       ve     COLOUR CODED WARNING       No Warning (No Action)       Watch (Be Aware)
Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain	Heavy Snow Dust Storm + Heat Wave	- Cold Way	Isolated (ISOL)         ve       COLOUR CODED WARNING         No Warning (No Action)         Watch (Be Aware)         Alert (Be Prepared To Take Action)         Warning (Take Action)         Probabilistic Forecast
Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain Thunder & Lightning	Heavy Snow Dust Storm + Heat Wave + Warm Night + Hot Day	- Cold Way	Isolated (ISOL)         ve       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
Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain	Heavy Snow Dust Storm + Heat Wave + Warm Night	- Cold Way	Isolated (ISOL)         ve       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 (%)

\* 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. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)





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*	Heavy: 64.5 to 115.5 tm //cm *
ain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° 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 ≥6.5° C
leat Wave	(b). Based on Actual maximum temperature Heat Wave: When actual maximum temperature ≥45°C.
	Severe Heat Wave: When actual maximum temperature ≥45 C.
	( c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
	When maximum temperature remains 40°C
/arm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
	When minimum temperature of a station $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ C for hilly regions. (a). Based on departure
	Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.
Cold Wave	Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C
	(b) Based on actual Minimum Temperature (for Plains only) Cold Wave : When Minimum Temperature is ≤ 4.0 °C
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	( c) For Coastal Stations
	When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
	Moderate Fog: When the visibility between 500-200 metres
Fog	Dense Fog: when the visibility between 50- 200 metres
	Very Dense Fog: when the visibility < 50 metres
understorm	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.
	Ice deposits on ground
Frost	Air temperature ≤4°C ( over Plains)
	A strong wind that rises suddenly, lasts for atleast 1 minute.
	Moderate: Wind speed 52-61 kmph
Squall	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
Sea State	High 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)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
	Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) Super Cyclone Strom: Wind speed >220 kmph (>119 knots)

For a colour warning uses not mean ked Alert, ked colour warning means "Take Action". For cast 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 (Service to the Nation since 1875)