

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 03rd December, 2024 Time of Issue: 1400 hours IST

Subject: (i) Well marked low pressure area [remnant of Cyclonic Storm "FENGAL"] over Coastal Karnataka and adjoining east central Arabian sea. Heavy to very heavy rainfall very likely at isolated places over north Kerala and coastal Karnatak today and decrease thereafter.

(ii) A fresh Western Disturbance is likely to affect Western Himalayan Region from 7th night and adjoining plains of Northwest India from 08th December.

Realised weather during past 24 hours till 0830 hours IST of today

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

Heavy to very heavy rainfall with extremely heavy rainfall has been recorded at isolated places over Coastal Karnataka and north Kerala; Heavy to very heavy rainfall at isolated places over north interior Tamil Nadu and Heavy rainfall at isolated places over South Interior Karnataka, Coastal Andhra Pradesh & Yanam & Rayalaseema.

Fog conditions realized over the country:

- **Dense fog (visibility 50-200 m)** reported in isolated pockets of Uttar Pradesh and Meghalaya.
- Visibility reported (in metre): West Uttar Pradesh: Bareilly 50; East Uttar Pradesh: Varanasi 100; Meghalaya: Barapani 100

Weather Systems:

- The well marked low pressure area over Coastal Karnataka and adjoining east central Arabian sea persisted over the same region at 0830 hours IST of today, the 03rd December, 2024. It is likely to move west-northwestwards over eastcentral Arabian sea during next 2 days. It is likely to maintain the intensity for next 24 hours and weaken gradually thereafter.
- A fresh Western Disturbance is likely to affect Western Himalayan Region from 7th night and adjoining plains of Northwest India from 08th December. It is likely to cause isolated to scattered light/moderate rainfall/snowfall over the Western Himalayan Region during 07th-09th and over the adjoining plains of Northwest India on 08th December, 2024.

Forecast & Warnings (upto 7 days) (Annexure II & III):

- ✓ North Kerala: Heavy to very heavy rainfall very likely at isolated places over north Kerala on 03rd December and then reduce thereafter.
- ✓ Tamil Nadu: Heavy rainfall very likely at isolated places over ghat districts of Tamil Nadu on 03rd December.
- ✓ Coastal Karnataka: Heavy rainfall very likely at isolated places over Coastal Karnataka on 03rd December.
- ✓ South Interior Karnataka: Heavy rainfall very likely at isolated places over ghat areas of South Interior Karnataka on 03rd December.

- ✓ **Rayalaseema: Heavy rainfall** very likely at isolated places over Rayalaseema on 03rd December.
- ✓ Lakshadweep: Heavy rainfall very likely at isolated places over Lakshadweep on 03rd December.

ii. Fishermen & Wind Warnings (Annexure IV):

Fishermen Warnings:

Fishermen are advised not venture over southeast adjoining east central Arabian sea, along and off Kerala-Karnataka, off Goa coasts on 03rd December; Lakshadweep area during 03rd -05th December; over southeast adjoining east central Arabian sea during 04th -07th December, 2024.

iii. Temperature conditions and Forecast:

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

Minimum temperatures are in the range of 10-15°C in the plain of Northwest India and 15-20°C over Central India, Gujarat State, Maharashtra and eastern parts of India. Minimum temperatures are **markedly above normal (5°C or more)** at most places over Telangana, Odisha and parts of Punjab & Maharashtra; **appreciably above normal (3°C to 5°C)** at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Gangetic West Bengal, Karnataka and Nagaland, Manipur, Mizoram & Tripura; **above normal (1°C to 3°C)** at a few places over Rajasthan, Uttar Pradesh, Bihar, Gujarat State; at isolated places over Haryana-Chandigarh-Delhi, Madhya Pradesh and Kerala & Mahe. These are **below normal (-3°C to -1°C)** at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and near normal over rest parts of the country. Today, **the lowest minimum temperature** of **8.0°C** is reported at **Bathinda (Punjab)** over the plains of the country.

Forecast of temperature:

- No significant change in minimum temperatures likely over Northwest, Central & East India, Maharashtra during next 2 days and gradual fall by 2-4°C thereafter during subsequent 3 days.
- Rise in minimum temperatures by 2-3°C over Gujarat Region during next 3 days and gradual fall by 3-4°C thereafter during subsequent 3 days.
- No significant change in minimum temperatures likely over rest parts of the country during next 4-5 days.

iv. Weather conditions and forecast over Delhi/NCR during 03rd to 06th Dec. 2024 (Annexure V)

For more details, kindly refer National Weather Bulletin:

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

Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 03.12.2024 (in cm):

- Coastal Karnataka: Mulki (dist Dakshina Kannada) 26, Mangaluru (dist Dakshina Kannada) 19, PanamburObsy (dist Dakshina Kannada) 18, Mangaluru Ap Obsy (dist Dakshina Kannada) 16, Karkala (distUdupi) 15, Udupi (dist Udupi) 14, Kota (dist Udupi) 13;
- Kerala & Mahe: Enamakkal (dist Thrissur) 20, Hosdurg (dist Kasaragod) 20, Vadakara (dist Kozhikode) 18, Ponnani (dist Malappuram) 17, Irinjalakuda (dist Thrissur) 17, Thennala (dist Malappuram) 17, Kudulu (dist Kasaragod) 16, Kozhikode (dist Kozhikode) 16, Angadipuram (dist Malappuram) 15, Chalakudi (dist Thrissur) 15, Kunnamkulam (dist Thrissur) 14, Perinthalamanna (dist Malappuram) 13, Quilandi (dist Kozhikode) 13, Vellanikkara (dist Thrissur) 13, Vadakara (dist Kozhikode) 13, Cheruvanchery (dist Cannur) 12, Karipur Ap. (dist Malappuram) 12, Kunnamangalam (dist Kozhikode) 11, Peringome (dist Cannur) 11, Kannur Airport (dist Cannur) 10, Ams Kannur (dist Cannur) 10, Haripad (dist Alapuzha) 10, Kannur (dist Cannur) 10, Chimoni (dist Thrissur) 9, Kannur (dist Cannur) 9, Mavelikara (dist Alapuzha) 9, Thycauttussery (dist Alapuzha) 9, Alwaye (dist Kasaragod) 8, Taliparamba (dist Cannur) 8, Anakayam (dist Malappuram) 8, Mangalam (dist Palakkad) 7, Aluva (dist Ernakulam) 7, Thritla (dist Palakkad) 7, Nilambur (dist Malappuram) 7, Muliyar (dist Kasaragod) 7, Pattembi (dist Palakkad) 7, Tellichery (dist Cannur) 7, Vyttiri (dist Wynad) 7;
- Tamil Nadu, Puducherry: Thogamalai (dist Karur) 13,Krishnarayapuram (dist Karur), Sholingur (dist Ranipet), Tirupattur PTO (dist Tirupathur),Yercaud (dist Salem) 10 each,Panjapatti (dist Karur), Vazhapadi ARG (dist Salem), Sirugamani KVK AWS (distThiruchirappalli), Salem (dist Salem), Pulivalam (dist Thiruchirappalli), Viralimalai (distPudukkottai) 9 each,Mayanoor (dist Karur), Musiri (dist Thiruchirappalli), R.K.Pet ARG (dist Tiruvallur), Went WorthEstate (dist The Nilgiris), Kadavur Taluk Offfie AWS (dist Karur), Taluk Office Pandalur (distThe Nilgiris) 8 each,Devala (dist The Nilgiris), Ponnaniyar Dam (dist Thiruchirappalli), R.K.Pet (dist Tiruvallur),Hosur (dist Krishnagiri), Panapakkam (dist Ranipet), Vathalai Anaicut (dist Thiruchirappalli) 7 each;
- South Interior Karnataka: Bellur (dist Mandya) 9, Bhagamandala (dist Kodagu) 9, Maddur (dist Mandya) 9;
- Coastal Andhra Pradesh: Seetharamapuram (dist Spsr Nellore) 7;
- Rayalaseema: Palasamudram (dist Chittoor) 8, Pakala (dist Tirupati) 7;

7 Days Rainfall Forecast								
S. No.	Subdivision	03- Dec Day 1	04- Dec Day 2	05- Dec Day 3	06- Dec Day 4	07- Dec Day 5	08- Dec Day 6	09- Dec Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	SCT	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
3	ASSAM & MEGHALAYA	DRY						
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	DRY						
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
8	JHARKHAND	DRY						
9	BIHAR	DRY						
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	DRY						
12	UTTARAKHAND	DRY	DRY	DRY	DRY	DRY	ISOL	DRY
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	ISOL	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	ISOL	DRY
15	HIMACHAL PRADESH	ISOL	DRY	DRY	DRY	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	DRY						
19	WEST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
21	GUJARAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
25	MARATHAWADA	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
26	VIDARBHA	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
27	CHHATTISGARH	ISOL						
28	COASTAL ANDHRA PRADESH & YANAM	FWS	FWS	SCT	SCT	SCT	ISOL	ISOL
29	TELANGANA	SCT	SCT	SCT	SCT	ISOL	ISOL	ISOL
30	RAYALASEEMA	FWS	FWS	SCT	SCT	SCT	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	FWS	SCT	SCT	FWS	SCT	DRY
33	NORTH INTERIOR KARNATAKA	FWS	ISOL	SCT	SCT	SCT	ISOL	DRY
34	SOUTH INTERIOR KARNATAKA	FWS	ISOL	SCT	SCT	SCT	ISOL	DRY
35	KERALA & MAHE	FWS	SCT	SCT	SCT	SCT	SCT	SCT
36	LAKSHADWEEP	FWS	SCT	SCT	SCT	SCT	SCT	SCT

• 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 03rd Dec. to 06th Dec. 2024) over Delhi/NCR

Past Weather:

There has been a slight rise in minimum and maximum temperature over Delhi/NCR during past 24hr. The Maximum and Minimum temperature over Delhi is in the range of 24 to 28°C and 10 to 13°C respectively. The maximum temperature was above normal by 01 to 04 °C and minimum temperature was above normal by 01 to 02 °C over most places. Mainly smog/ mist condition with predominant surface wind from northwest direction with wind speed reaching 04 to 10 kmph prevailed during day time and calm wind during night time on 02.12.2024. Safdarjung airport recorded lowest visibility 1200 m during 0730 hours to 0930 hours IST which improved thereafter becoming 1400m at 1000 hours IST. Mainly clear sky condition with wind speed less than 10 kmph west direction prevailed over the region in the forenoon today.

Weather Forecast:

03.12.2024: Mainly clear sky. The predominant surface wind is likely to be northwest direction with wind speed less than 16 kmph till evening. It would decrease thereafter becoming less than 10 kmph from northwest direction during night. Smog/mist is likely in the evening/night.

04.12.2024: Mainly clear sky. The predominant surface wind is likely to be from northwest direction with speed less than 10 kmph during morning hours. Smog/ mist is likely in the morning. The wind speed will increase thereafter becoming less than 16 kmph from northwest direction during afternoon. It will decrease thereafter becoming less than 10 kmph from northwest direction during evening and night. Smog/mist is likely in the evening/night.

05.12.2024: Mainly clear sky. The predominant surface wind is likely to be from northwest direction with speed less than 10 kmph during morning hours. Smog/mist is likely in the morning. The wind speed will gradually increase becoming 12-16 kmph from northwest direction during afternoon. It will decrease thereafter becoming less than 10 kmph from northwest direction during evening and night. Smog/mist is likely in the evening/night.

06.12.2024: Mainly clear sky. The predominant surface wind is likely to be from northwest direction with wind speed less than 08 kmph during morning hours. Smog/mist in the morning. The wind speed will increase thereafter becoming 10-12 kmph from northwest direction during afternoon. It will gradually decrease becoming less than 08 kmph from northwest direction during evening and night. Smog/ mist is likely in the evening/night.

Impact & Action Suggested due to: Heavy to very heavy rainfall at isolated places over north Kerala on 03rd December.

A. Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Damage to horticulture and standing crops in some areas due to inundation.

B. Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- ✤ Avoid staying in vulnerable structure.

Agromet advisories for Heavy Rainfall likely over various parts of the country

- Drain out excess water from rice, sugarcane, cotton, turmeric, vegetables, and other standing crop fields, as well as coconut and banana orchards in **Tamil Nadu**; from rice, coffee, banana, coconut, arecanut, ginger, pepper, cardamom and other standing crops in **Kerala**; from cotton, rice, maize, groundnut, finger millet, pigeon pea, arecanut, fruits and vegetables in **South Interior Karnataka** and from arecanut, cashew, coconut, banana, jasmine, black pepper, other standing crops and fruit orchards in **Coastal Karnataka**.
- > Keep the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields.
- > Provide mechanical support to horticultural crops and staking to vegetables.

Livestock and Fishery

- > Keep the animals inside the shed during heavy rainfall and provide balanced feed.
- Store the feed and fodder at safer place to avoid spoilage from rainfall.
- > Hang gunny bags all around poultry sheds.
- > Check and disinfect poultry houses to prevent disease outbreaks due to dampness.
- > Check the huts and other weaker structures before relocation of the animals.
- Remove excess water from fish ponds to avoid losses of fish (if feasible).
- > Check and repair dykes around the ponds to avoid entry of runoff water from the catchment areas.

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 and		7. Odisha
8. झारखंड			8. Jharkhand
9. बिहार	16		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	3 14. Punjab
15. हिमाचल प्रदेश	the per of german	man R	15. Himachal Pradesh
16. जम्मू और कश्मीर और लह		1 8 ~ 6 {	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		1 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	FIAL DISTRIBU	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 Way	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 Way	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 mm/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 $\geq 40^{\circ}$ C for plains and $\geq 30^{\circ}$ 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 \leq 10°C for plains and \leq 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
	Phonomenon of small droplets suspended in air and the horizontal visibility < 1km
	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
Sea State	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)
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) 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)