



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

> Wednesday, April 16, 2025 Time of Issue: 1945 hours IST (NIGHT)

All India Impact Based Weather Warning Bulletin

Weather Warnings for next 7 days is given below: (Graphics for warnings & rainfall distribution (Table 1) are given below the text:

16th April (Day 1):

- ✤ Heavy rainfall (≥ 7 cm) very likely at isolated places over Tripura and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm very likely at isolated places over Vidarbha, Chhattisgarh; with lightning, gusty winds (speed reaching 30-40 kmph) & hailstorm very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal; with lightning at isolated places over Himachal Pradesh, Uttarakhand, Coastal Karnataka.
- Duststorm/ Thunderstorm accompanied with lightning & gusty winds (speed reaching 30 -40 kmph) very likely at isolated places over West Rajasthan
- Heat wave at a few places with severe Heat wave conditions very likely at isolated places over West Rajasthan; Heat wave conditions in isolated pockets East Rajasthan and Gujarat.
- ***** Hot and Humid conditions very likely at isolated places over Gujarat, Kerala & Mahe.
- ***** Warm night conditions very likely at isolated places over Rajasthan.

17th April (Day 2):

- **♦** Heavy rainfall (≥ 7 cm) very likely at isolated places over Bihar, Assam & Meghalaya.
- Thundersquall accompanied with lightning, gusty winds (speed reaching 50 60 kmph) very likely at isolated places over Gangetic West Bengal, Bihar; Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 50 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, South Interior Karnataka; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Vidarbha, Chhattisgarh, Rayalaseema, Telangana, North Interior Karnataka; with lightning at isolated places Uttarakhand.
- **Duststorm/ Thunderstorm** very likely at isolated places over East Rajasthan
- Heat wave at many places with severe Heat wave conditions very likely at a few places over West Rajasthan; Heat wave conditions at a few places over East Rajasthan; at isolated places over Gujarat.
- Hot and Humid very likely at isolated places over Kerala & Mahe, Madhya Maharashtra, Marathwada and Gujarat.
- Warm night conditions very likely at a few places over West Rajasthan and at isolated places over East Rajasthan and Uttar Pradesh.





18th April (Day 3):

- Heavy rainfall/snowfall likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh.
- Thundersquall accompanied with lightning, gusty winds (speed reaching 50 60 kmph) likely at isolated places over Gangetic West Bengal, Bihar; Thunderstorm accompanied with lightning, gusty winds (speed reaching 40 50 kmph), Hailstorm at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand; with lightning, gusty winds (speed reaching 40 50 kmph) at isolated places over Chhattisgarh, Jharkhand, South Interior Karnataka; with lightning, gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema; with lightning at isolated places over West Uttar Pradesh.
- Heat wave at a few places with severe Heat wave conditions likely at isolated places of West Rajasthan; Heat wave conditions at a few places over East Rajasthan.
- **Warm night conditions** likely at isolated places over Uttar Pradesh.
- * Hot and Humid likely at isolated places over Madhya Maharashtra and Marathwada.

19th April (Day 4):

- Heavy rainfall/snowfall likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh.
- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40- 50 kmph), hailstorm likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand; with lightning, gusty winds (speed reaching 40- 50 kmph) at isolated places over Gangetic West Bengal, Jharkhand, South Interior Karnataka; with lightning, gusty winds (speed reaching 30 40 kmph) at isolated places over Punjab, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema; with lightning at isolated places over West Uttar Pradesh, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe.
- Heat wave conditions likely at isolated places of Rajasthan.
- * Hot and Humid likely at isolated places over Madhya Maharashtra and Marathwada.

20th April (Day 5):

- Heavy rainfall likely at isolated places over Arunachal Pradesh, Assam & Meghalaya.
- Thunderstorm accompanied with lightning, gusty winds (speed reaching 30 40 kmph) likely at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema; with lightning at isolated places over West Uttar Pradesh, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- Hot and Humid likely at isolated places over Madhya Maharashtra and Marathwada.

21st April (Day 6):

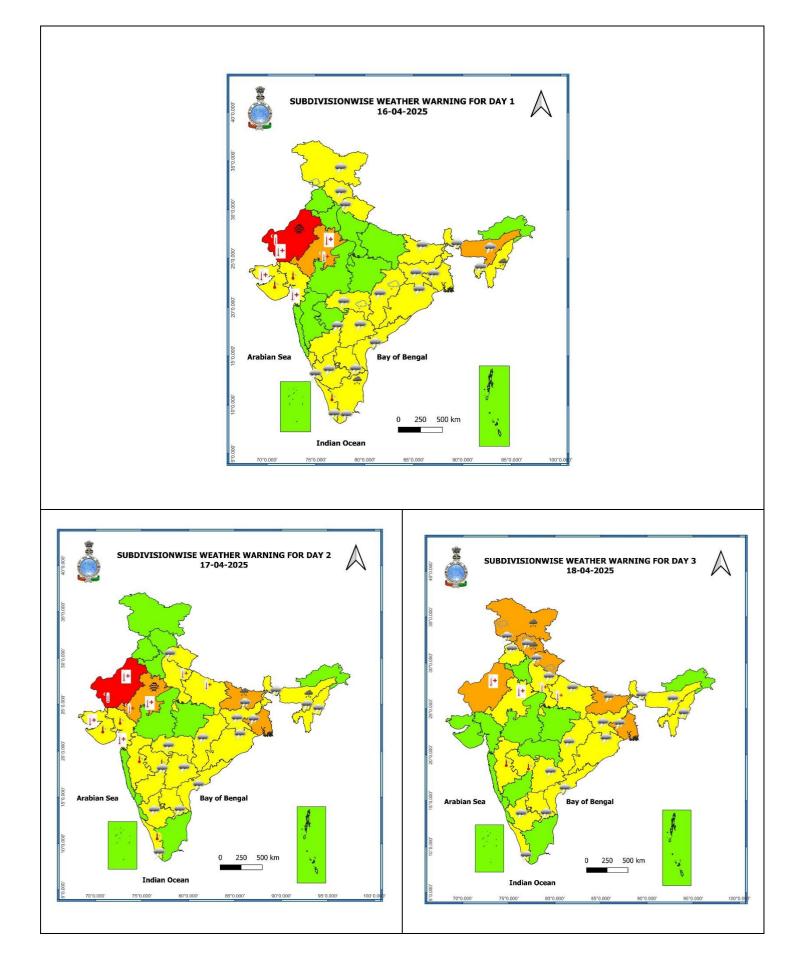
• Heavy rainfall likely at isolated places over Arunachal Pradesh, Assam & Meghalaya.

22nd April (Day 7):

• **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya.



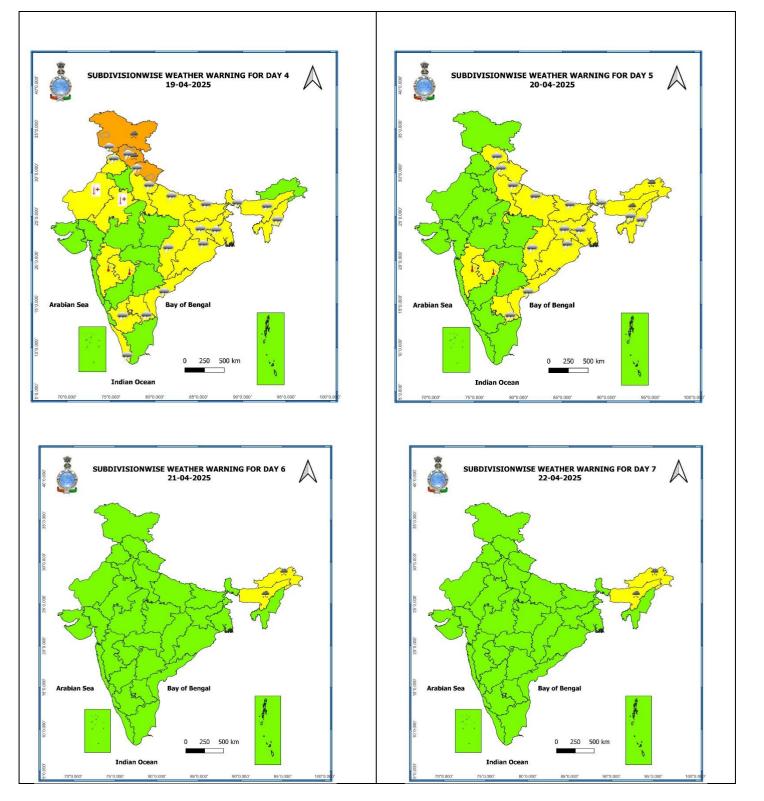








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- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.





Table-1

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

• As the lead period increases forecast accuracy decreases.







Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds &

Hailstorm over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Chhattisgarh, Vidarbha on 16th; Western Himalayan Region on 18th & 19th April.

Impact expected:

- 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:

- 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.

Impact expected and action suggested due to Heat wave to severe heat wave conditions over

- Heat wave condition very likely at many/some places over West Rajasthan during 16th-18th; at isolated places on 19th with severe heat wave conditions at isolated/some parts during 16th-18th April.
- Heat wave conditions are very likely at isolated/some places over East Rajasthan during 16th-19th; Gujarat State on 16th & 17th April.

Orange alert Areas

- High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- ▶ High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- > Avoid heat exposure keep cool. Avoid dehydration.
- > Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

Yellow alert Areas

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- > Avoid heat exposure.
- > Wear lightweight, light colour, loose, cotton clothes.
- > Cover your head, use a cloth, hat or umbrella.







Agromet advisories for likely impact of Hailstorm / Heavy Rainfall / Gusty Winds / Heatwave

- In Chhattisgarh, immediately shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields to avoid the adverse impact of likely hailstorm. Use hail net and hail caps to prevent mechanical damage in orchards due to hailstorms.
- ➢ In Assam & Meghalaya, Tripura, Bihar, Jammu & Kashmir and Himachal Pradesh, immediately harvest the mature crops, fruits and vegetables and shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Also make provision to drain out excess water from standing crop and vegetable fields.
- In Rajasthan and Gujarat, apply light and frequent irrigation to standing crops in the evening to protect them from heat waves.
- > Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.

Livestock / Poultry / Fishery

- ➤ Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- > Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also provide clean, hygienic and plenty of drinking water to animals.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.





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fears of Service to the Nation LEGENDS 1. अंडमान और निकोबार द्वीपसमूह 1. Andaman & Nicobar Islands 2. अरुणाचल प्रदेश 2. Arunachal Pradesh 3. असम और मेघालय 3. Assam & Meghalaya 4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा 4. Nagaland, Manipur, Mizoram & Tripura 5. उप-हिमालयी पश्चिम बंगाल और सिक्किम 5. Sub-Himalayan West Bengal & Sikkim 6. गंगीय पश्चिम बंगाल 6. Gangetic West Bengal 7. ओडिशा 7. Odisha 8. झारखंड 8. Jharkhand 16 9. बिहार 9. Bihar 15 10. पूर्वी उत्तर प्रदेश **10. East Uttar Pradesh** 14 3 11. पश्चिम उत्तर प्रदेश 11. West Uttar Pradesh 13 12. Uttarakhand 12. उत्तराखंड 13. हरियाणा, चंडीगढ और दिल्ली 13. Haryana, Chandigarh & Delhi 17 10 14. पंजाब 18 14. Punjab 15. हिमाचल प्रदेश 15. Himachal Pradesh 16. Jammu & Kashmir and Ladakh 16. जम्मू और कश्मीर और लद्दाख 20 19 17. पश्चिम राजस्थान 17. West Rajasthan 2 26 18. पूर्वी राजस्थान 18. East Rajasthan 19. पश्चिम मध्य प्रदेश 19. West Madhya Pradesh 25 20. पूर्वी मध्य प्रदेश 20. East Madhya Pradesh 29 21. Gujarat 21. गुजरात 33 22. सौराष्ट 22. Saurashtra 30 23. कोंकण और गोवा 23. Konkan & Goa 24. मध्य महाराष्ट्र 24. Madhya Maharashtra 3: 25. मराठवाड़ा 1 25. Marathwada 26. विदर्भ 26. Vidarbha 36 27. छत्तीसगढ 27. Chhattisgarh 28. तटीय आंध्र प्रदेश और यनम 28. Coastal Andhra Pradesh & Yanam 29. तेलंगाना 29. Telangana 30. रायलसीमा 30. Rayalaseema 31. तमिलनाडु, पुडुचेरी और कराईकल 31. Tamilnadu, Puducherry & Karaikal 32. तटीय कर्नाटक 32. Coastal Karnataka 33. आतंरिक उत्तरी कर्नाटक 33. North Interior Karnataka 34. आतंरिक दक्षिणी कर्नाटक 34. South Interior Karnataka 35. केरल और माहे 35. Kerala & Mahe 36. लक्षद्वीप 36. Lakshadweep **SPATIAL DISTRIBUTION** (% of Stations reporting) % Stations Category % Stations Category

76-100	Widespre	ad (WS/Most Places)	26-50	Scat	tered (SCT	A Few Places)
51-75	Fairly Widesp	oread (FWS/Many Places)	1-25		Isolate	d (ISOL)
— For		🚙 Heavy Snow 🛛 -	- Cold Wa	ve		DED WARNING
Fog		incuty bioti	J		No Warning (No Action)	
💏 Heavy Rain		🔮 Dust Storm -	- Cold Day		Watch (Be Aware)	
🗭 Very Heavy Rain		+ Heat Wave	Ground Frost		Alert (Be Prepared To Take Action)	
Extremely Heavy Rain		+ Warm Night			Warning	(Take Action)
		Unt Day			Proba	bilistic Forecast
Thunder & Lightning		+ Hot Day		E	Terms	Probability of Occurrence (%)
		0			Unlikely	< 25
Hailstorm		🜓 Hot & Humid		1	Likely	25 - 50
				-	Very Likely	50 - 75
🕄 Dust Raising Winds		Strong Surface Winds			Most Likely	> 75





Extremely Extremely When max (a) Based of Heat Wave Severe Heat (b). Based Heat Wave Severe Heat (c). Criteri When maxin temperature When max Warm Night	In the second secon
(a) Based (Heat Wave Severe Heat (b). Based Heat Wave Severe Heat (c). Criteri When maxin temperature When max Warm Night	con Departure from normal c: Maximum Temperature Departure from normal 4.5° C to 6.4° C. at Wave: Maximum Temperature Departure from normal 26.5° C con Actual maximum temperature c: When actual maximum temperature ≥45°C. at Wave: When actual maximum temperature ≥47°C at or heat wave for coastal stations num temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum ≥37°C
Heat Wave (b). Based Heat Wave Severe Heat (c). Criteri When maxim temperature When max Warm Night	at Wave: Maximum Temperature Departure from normal ≥6.5° C on Actual maximum temperature When actual maximum temperature ≥45°C. at Wave: When actual maximum temperature ≥47°C a for heat wave for coastal stations num temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum ≥37°C timum temperature remains 40°C
Heat Wave (b). Based Heat Wave Severe Heat (c). Criteri When maxim temperature When max Warm Night Warm Nigh	on Actual maximum temperature When actual maximum temperature ≥45°C. at Wave: When actual maximum temperature ≥47°C a for heat wave for coastal stations num temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum ≥37°C timum temperature remains 40°C
Varm Night	at Wave: When actual maximum temperature ≥47°C a for heat wave for coastal stations hum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum ≥37°C ctimum temperature remains 40°C
Varm Night	a for heat wave for coastal stations hum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum ≥37°C timum temperature remains 40°C
Varm Night Warm Nigh Severe War	
Severe War	t: When minimum temperature departure 4.5 °C to 6.4 °C
	rm Night: When minimum temperature departure >6.4 °C.
When mir	
	nimum temperature of a station \leq 10°C for plains and \leq 0°C for hilly regions.
	on departure : Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.
Severe Col	d Wave: Minimum Temperature Departure from normal ≤ -6.5 °C
	on actual Minimum Temperature (for Plains only)
	: When Minimum Temperature is ≤ 4.0 °C d Wave: When Minimum Temperature is ≤ 2.0 °C
	bastal Stations
	num Temperature departure is \leq -4.5 °C & actual Minimum Temperature is \leq 15 °C
	imum temperature of a station ≤10°C for plains and ≤0°C for hilly regions
Cold Day Cold Day:	departure Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
	d Day: Maximum Temperature Departure from normal ≤ -6.5 °C
Phonome	non of small droplets suspended in air and the horizontal visibility < 1km
	og: When the visibility between 500-200 metres
Fog Dense Fog:	when the visibility between 50- 200 metres
nunderstorm Sudden ele sound (thu	ectrical discharges manifested by a flash of light (Lightning) and a sharp rumbling nder)
Dust/Sand An ensemb Storm turbulent v	ole of particles of dust or sand energetically lifted to great heights by a strong and vind.
Ice depos	sits on ground
Erect	ture ≤4°C (over Plains)
A stars and	wind that rises suddenly, lasts for atleast 1 minute.
	Wind that rises suddenly, lasts for atleast 1 minute.
	nd speed 62-87 kmph
Very Sever	e: Wind speed >87 kmph
	arious waves in the sea over specific area
	ery rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre y high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
ringit to tot	al: Wind speed >117 kmph (>63 knots) & Wave height >14 metre
Cyclonic S	torm: Wind speed 62-87 kmph (34-47 knots)
	clonic Storm: Wind speed 88-117 kmph (48-63 knots)
	e Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
	one Strom: Wind speed >220 kmph (>119 knots)

Hot and Humid: When maximum temperatures remains 3°C above normal along with the above normal relative humidity.