



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Wednesday, April 16, 2025 Time of Issue: 0800 hours IST (MORNING)

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 Assam & Meghalaya.
- ❖ Thundersquall accompanied with lightning, gusty winds (speed reaching 40 50 kmph) very likely at isolated places over Vidarbha, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Chhattisgarh, West Bengal & Sikkim, Bihar, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka; with lightning at isolated places over Uttarakhand, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Duststorm/ Thunderstorm** very likely at isolated places over West Rajasthan
- ❖ Heat wave at many places with severe Heat wave conditions very likely at isolated places over West Rajasthan; Heat wave conditions in isolated pockets East Rajasthan and Gujarat state.
- ❖ Hot and Humid conditions very likely at isolated places over Gujarat state, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Karnataka.
- ❖ Warm night conditions very likely at a few places over West Rajasthan and at isolated places over East Rajasthan and West Madhya Pradesh.

17th April (Day 2):

- ❖ Heavy rainfall (≥ 7 cm) very likely at isolated places over Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- Thundersquall accompanied with lightning, gusty winds (speed reaching 50 60 kmph) very likely at isolated places over Gangetic West Bengal, Bihar; Thundersquall 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, South Interior Karnataka; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Chhattisgarh, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & North Interior Karnataka; with lightning at isolated places Uttarakhand, Vidarbha, Arunachal Pradesh.
- ❖ **Duststorm/ Thunderstorm** very likely at isolated places over West 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 state.
- Hot and Humid very likely at isolated places over Madhya Maharashtra, Marathwada and Gujarat state.
- * Warm night conditions very likely at a few places over West Rajasthan and at isolated places over East



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

20th April (Day 5):

❖ Thunderstorm accompanied with lightning, gusty winds (speed reaching 30 - 40 kmph) likely at isolated places over Himachal Pradesh.

21st April (Day 6):

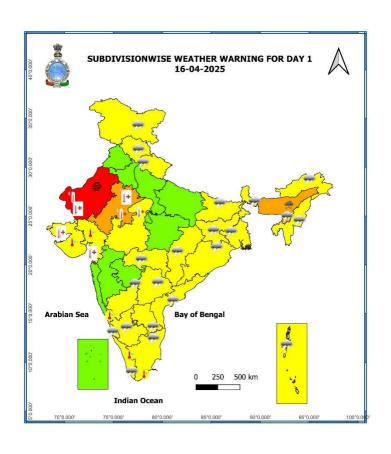
❖ No warning.

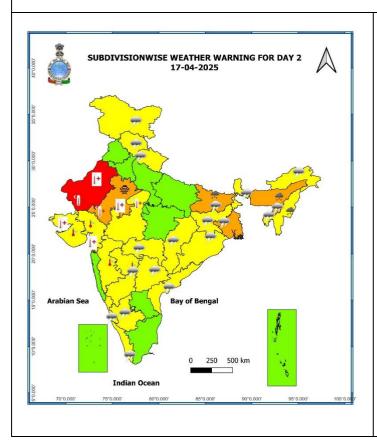
22nd April (Day 7):

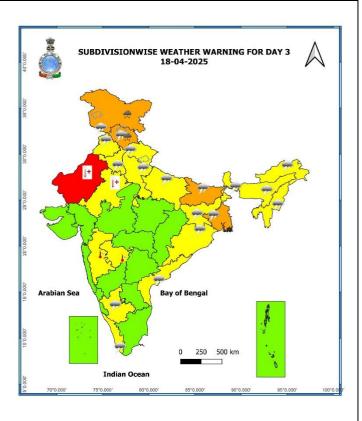
❖ No warning.







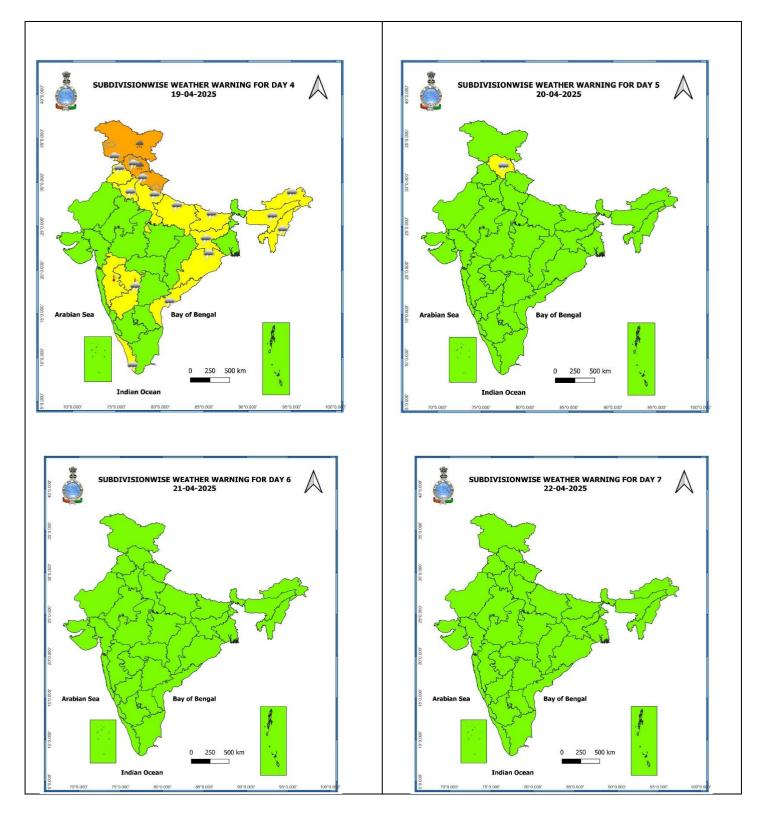








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- Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.



Table-1

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



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Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 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

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

Red alert Areas

- ➤ Very high likelihood of developing heat illness and heat stroke in all ages.
- > Extreme care needed for vulnerable people.

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 **Meghalaya**, **Odisha** and **Jharkhand**, 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**, **Odisha** and **Bihar** 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, Punjab, Haryana, West Madhya Pradesh 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.



Years of Service to the Nation टाउट येवा से 150 वर्ष

LEGENDS

15

26

30

36

- 1. अंडमान और निकोबार द्वीपसमूह
- 2. अरुणाचल प्रदेश
- 3. असम और मेघालय
- 4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
- 6. गंगीय पश्चिम बंगाल
- 7. ओडिशा
- 8. झारखंड
- 9. बिहार
- 10. पूर्वी उत्तर प्रदेश
- 11. पश्चिम उत्तर प्रदेश
- 12. उत्तराखंड
- 13. हरियाणा, चंडीगढ़ और दिल्ली
- 14. पंजाब
- 15. हिमाचल प्रदेश
- 16. जम्मू और कश्मीर और लद्दाख
- 17. पश्चिम राजस्थान
- 18. पूर्वी राजस्थान
- 19. पश्चिम मध्य प्रदेश
- 20. पूर्वी मध्य प्रदेश
- 21. गुजरात
- 22. सौराष्ट
- 23. कोंकण और गोवा
- 24. मध्य महाराष्ट्र
- 25. मराठवाड़ा
- 26. विदर्भ
- 27. छत्तीसगढ
- 28. तटीय आंध्र प्रदेश और यनम
- 29. तेलंगाना
- 30. रायलसीमा
- 31. तमिलनाडु, पुडुचेरी और कराईकल
- 32. तटीय कर्नाटक
- 33. आतंरिक उत्तरी कर्नाटक
- 34. आतंरिक दक्षिणी कर्नाटक
- 35. केरल और माहे
- 36. लक्षद्वीप

- 1. Andaman & Nicobar Islands
- 2. Arunachal Pradesh
- 3. Assam & Meghalaya
- 4. Nagaland, Manipur, Mizoram & Tripura
- 5. Sub-Himalayan West Bengal & Sikkim
- 6. Gangetic West Bengal
- 7. Odisha
- 8. Jharkhand
- 9. Bihar
- 10. East Uttar Pradesh
- 11. West Uttar Pradesh
- 12. Uttarakhand
- 13. Haryana, Chandigarh & Delhi
- 14. Punjab
- 15. Himachal Pradesh
- 16. Jammu & Kashmir and Ladakh
- 17. West Rajasthan
- 18. East Rajasthan
- 19. West Madhya Pradesh
- 20. East Madhya Pradesh
- 21. Gujarat
- 22. Saurashtra
- 23. Konkan & Goa
- 24. Madhya Maharashtra
- 25. Marathwada
- 26. Vidarbha
- 27. Chhattisgarh
- 28. Coastal Andhra Pradesh & Yanam
- 29. Telangana
- 30. Rayalaseema
- 31. Tamilnadu, Puducherry & Karaikal
- 32. Coastal Karnataka
- 33. North Interior Karnataka
- 34. South Interior Karnataka
- 35. Kerala & Mahe
- 36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)

Cold Wave

Cold Day

Ground Frost



COLOUR CODED WARNING

No Warning (No Action)

Watch (Be Aware)

Alert (Be Prepared To Take Action)

Warning (Take Action)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



	Heavy: 64.5 to 115.5 mm/cm *
Rain/ Snow *	Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm*
tunii Onow	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
Heat Wave	(b). Based on Actual maximum temperature
	Heat Wave: When actual maximum temperature ≥45°C. Severe Heat Wave: When actual maximum temperature ≥47°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
Warm 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 ≤10°C for plains and ≤0°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 ≤ -6.5 °C
Cold Wave	(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
hunderstorm	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
-4	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
Cou Clate	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)
	Super Cyclone Strom, Wind Speed -220 Killon (-) 13 Killon

*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)

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