

Thursday, May 02, 2024
Time of Issue: 2000 hours IST
(NIGHT)

All India Impact Based Weather Warning Bulletin

02 May (Day 1):

- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph)** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm** at isolated places over Odisha; **with lightning, gusty winds (speed reaching 30-40 kmph)** at isolated places over West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam; **with lightning** at isolated places over Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Hot and humid weather** very likely to prevail over Kerala & Mahe, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Konkan.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in many places over Gangetic West Bengal; in isolated pockets over east Bihar; **heat wave conditions** in some parts over east Jharkhand; in isolated pockets over Sub-Himalayan West Bengal, Odisha, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, north Kerala & Mahe, south Coastal Andhra Pradesh, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Gangetic West Bengal, Odisha, Sub-Himalayan West Bengal & Sikkim, South Interior Karnataka and Rayalaseema.
- ❖ **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail along and off south Andhra Pradesh-Odisha-adjointing West Bengal coasts. Fishermen are advised not to venture into these areas.

03 May (Day 2):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Hot and humid weather** very likely to prevail over Kerala & Mahe, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in some parts over Gangetic West Bengal; in isolated pockets over east Bihar; **heat wave conditions** in some parts over east Jharkhand; in isolated pockets over Sub-Himalayan West Bengal, Odisha, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, south Coastal Andhra Pradesh, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Odisha, Rayalaseema and South Interior Karnataka.
- ❖ **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail along and off south Andhra Pradesh-Odisha-adjointing West Bengal coasts. Fishermen are advised not to venture into these areas.

04 May (Day 3):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema; **with lightning** at isolated places over Himachal Pradesh, Punjab, Gangetic West Bengal, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- ❖ **Hot and humid weather** very likely to prevail over Kerala & Mahe, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in some parts over Gangetic West Bengal; **heat wave conditions** in isolated pockets over Vidarbha, east Bihar, east Jharkhand, Odisha, Konkan, Madhya Maharashtra, Marathwada, Gujarat state, Tamil Nadu, Puducherry & Karaikal, south Coastal Andhra Pradesh, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail along and off south Andhra Pradesh-Odisha-adjointing West Bengal coasts. Fishermen are advised not to venture into these areas.

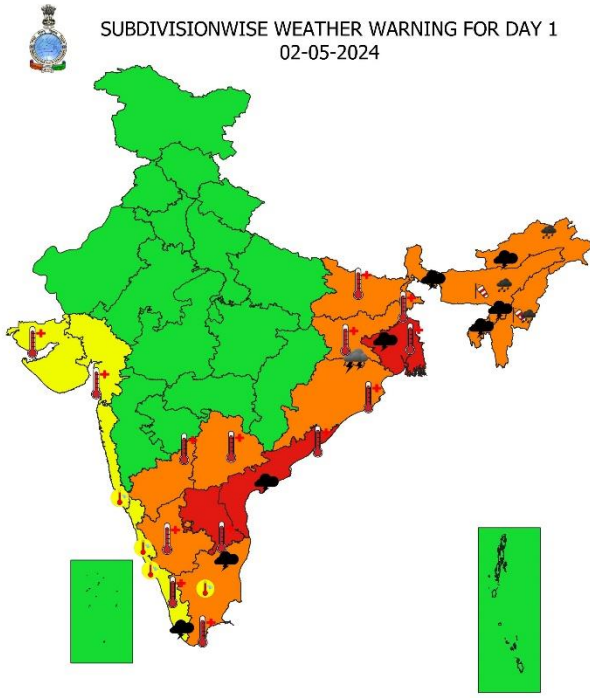
05 May (Day 4):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** likely at isolated places over East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, West Madhya Pradesh, Gangetic West Bengal, Bihar, Jharkhand, Odisha; **with lightning** at isolated places over Himachal Pradesh, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim.
- ❖ **Hot and humid weather** very likely to prevail over Kerala & Mahe, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Konkan & Goa.
- ❖ **Heat wave** likely to prevail in isolated pockets over Vidarbha, Gangetic West Bengal, east Bihar, east Jharkhand, Odisha, Marathwada, Gujarat state, south Coastal Andhra Pradesh, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail along and off south Andhra Pradesh-Odisha-adjointing West Bengal coasts. Fishermen are advised not to venture into these areas.

06 May (Day 5):

- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph)** likely at isolated places over Gangetic West Bengal; **with lightning, gusty winds (speed reaching 40-50 kmph)** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, West Madhya Pradesh; **with lightning** at isolated places over Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana.
- ❖ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Arunachal Pradesh.
- ❖ **Hot and humid weather** likely to prevail over Kerala & Mahe, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave** likely to prevail in isolated pockets over Odisha and North Interior Karnataka.
- ❖ **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail along and off Odisha coast and adjoining West Bengal coast. Fishermen are advised not to venture into these areas.

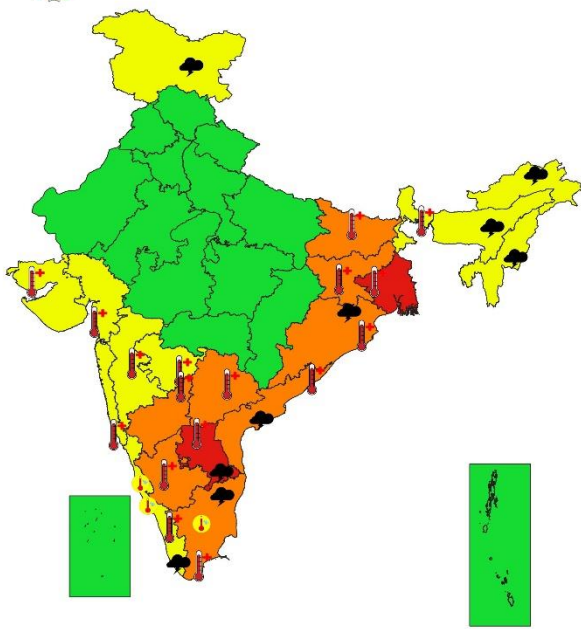
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
 02-05-2024



Subdivision Warning

Fog	Heavy Snow	Cold Day	Subdivision Colour
Heavy Rain	Hailstorm	Ground Frost	NO WARNING
Very Heavy Rain	Dust Storm	Strong Surface Winds	WATCH (BE UPDATED)
Extremely Heavy Rain	Heat Wave	Thunder & Lightning	ALERT (BE PREPARED)
	Cold Wave	Hot and Humid	WARNING (TAKE ACTION)

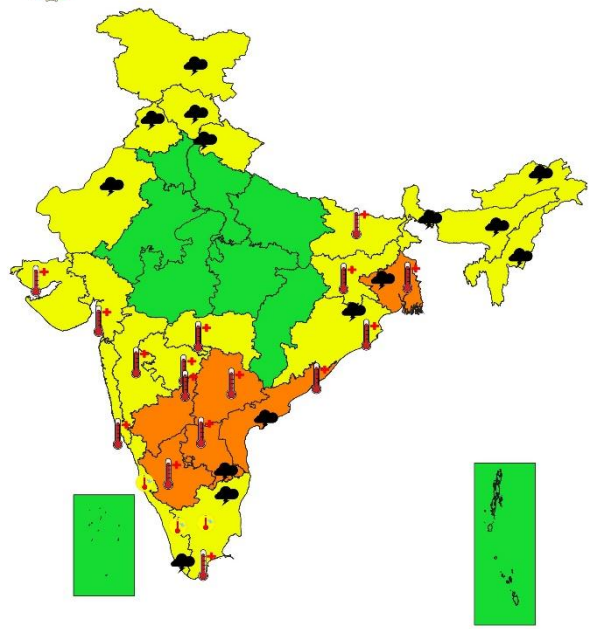
SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
 03-05-2024



Subdivision Warning

Fog	Heavy Snow	Cold Day	Subdivision Colour
Heavy Rain	Hailstorm	Ground Frost	NO WARNING
Very Heavy Rain	Dust Storm	Strong Surface Winds	WATCH (BE UPDATED)
Extremely Heavy Rain	Heat Wave	Thunder & Lightning	ALERT (BE PREPARED)
	Cold Wave	Hot and Humid	WARNING (TAKE ACTION)

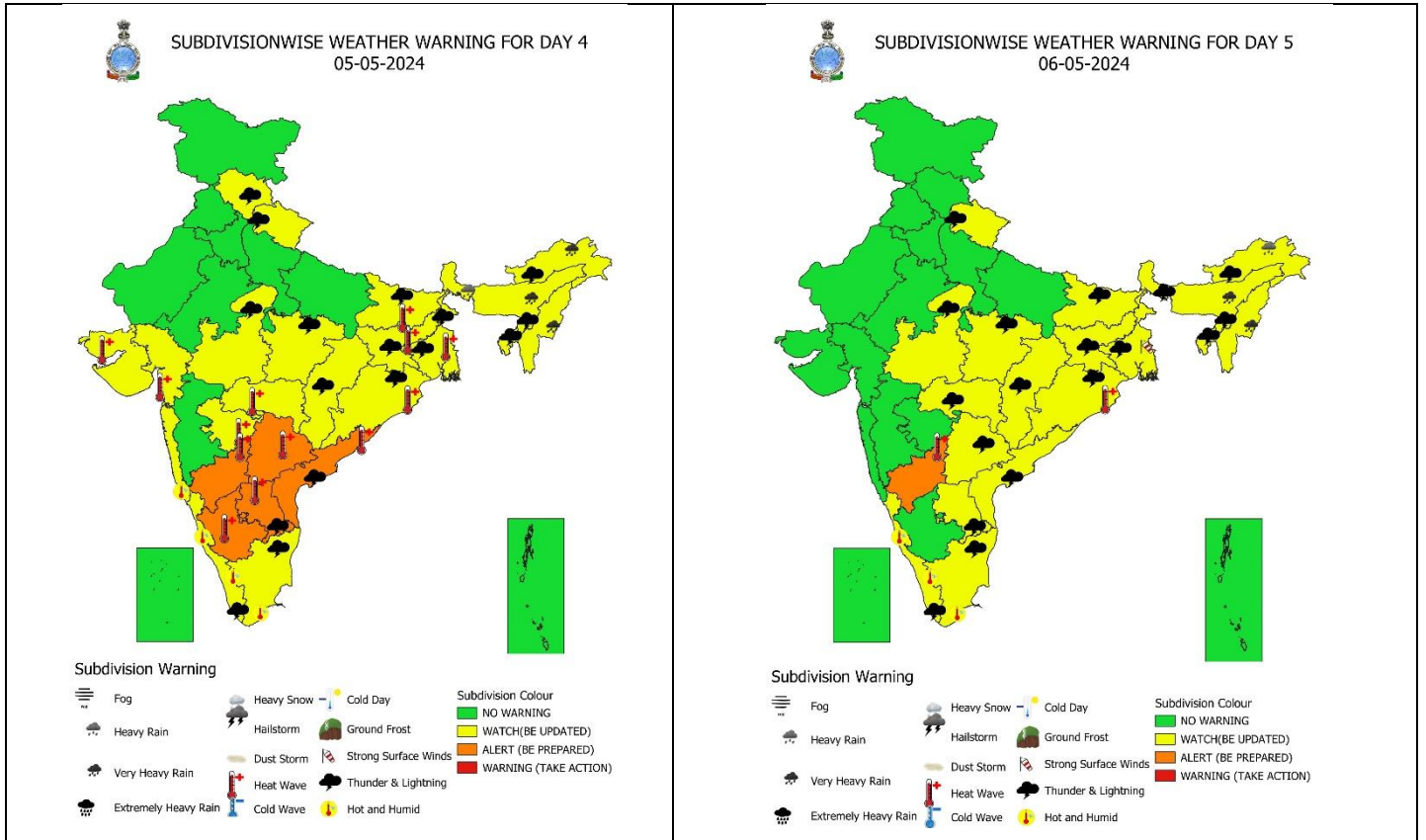
SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
 04-05-2024



Subdivision Warning

Fog	Heavy Snow	Cold Day	Subdivision Colour
Heavy Rain	Hailstorm	Ground Frost	NO WARNING
Very Heavy Rain	Dust Storm	Strong Surface Winds	WATCH (BE UPDATED)
Extremely Heavy Rain	Heat Wave	Thunder & Lightning	ALERT (BE PREPARED)
	Cold Wave	Hot and Humid	WARNING (TAKE ACTION)

*** 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)



IMPACT & ACTION SUGGESTED due to Heat Wave Conditions:

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.

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Impact & Action Suggested due to Isolated heavy to very heavy rainfall very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 02nd; 05th & 06th May and isolated **heavy rainfall** over Sikkim on 05th May.

Impacts Expected for Rainfall/Snowfall over above regions:

- ✓ Disruption of Electricity.
 - ✓ Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nallahs.
 - ✓ Disruption of traffic flow.
- Damage to Kuccha and unsecured structures.

Suggested Actions

- ✓ Avoid roadway underpasses, drainage ditches, low lying areas and areas where water collects – they can unexpectedly flood or overflow.
- ✓ Stay away from power lines or electrical wires.
- ✓ Don't stay in kuchcha houses during heavy rainfall as it may collapse anytime soon.
- ✓ Drive carefully.

Agromet advisories for Heavy Rainfall, Hailstorm, Gusty Winds and Heat Wave likely over various parts of the country:

- Use hail nets or hail caps in fruit orchards to prevent mechanical damage and provide mechanical support to horticultural crops & staking to vegetables in Odisha.
- In Arunachal Pradesh, postpone sowing of maize, *jhum* upland rice and vegetables.
- Make necessary arrangements for draining out excess water from crop fields to avoid water stagnation and also provide mechanical support to horticultural crops & staking to vegetables to prevent damage from gusty winds in North-Eastern States.
- Apply light and frequent irrigation to standing crops to avoid heat stress; provide mulching to conserve soil moisture and minimise evaporation in West Bengal, Odisha, Bihar, Jharkhand, Gujarat, North Konkan, Tamil Nadu, Kerala, Interior Karnataka, Andhra Pradesh and Telangana.

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



Rain/ Snow *

Heavy: 64.5 to 115.5 mm/cm *
 Very Heavy: 115.6 to 204.4 mm/cm*
 Extremely Heavy: > 204.4 mm/cm *



Heat Wave

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 $\geq 37^\circ\text{C}$



Warm Night

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



Cold Wave

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



Cold Day

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



Fog

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



Thunderstorm

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.



Frost

Ice deposits on ground

Air temperature $\leq 4^\circ\text{C}$ (over Plains)



Squall

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



Sea State

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



Cyclone

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)

Kindly download MAUSAM APP for location specific forecast & warning, MEGHDOOT APP for Agromet advisory and DAMINI APP for Lightning Warning & visit state MC/RMC websites for district wise warning.

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