

Thursday, April 25, 2024  
Time of Issue: 2000 hours IST  
(NIGHT)

## All India Impact Based Weather Warning Bulletin

### 25 April (Day 1):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) with hail** very likely at isolated places over Vidarbha; **with gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Assam & Meghalaya, Coastal Andhra Pradesh & Yanam; **with lightning and hailstorm** at isolated places over Marathwada, Madhya Maharashtra; **with gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, East Rajasthan, Uttar Pradesh and Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Arunachal Pradesh and Kerala & Mahe.
- ❖ **Hot and humid weather** very likely to prevail over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Karnataka.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in many places over Gangetic West Bengal; at few places over north Odisha and in isolated pockets over Sub-Himalayan West Bengal; **heat wave conditions** in isolated pockets over East Uttar Pradesh, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka.

### 26 April (Day 2):

- ❖ **Thunderstorm accompanied with squally winds (speed reaching 50-60 kmph)** very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty winds (speed reaching 40-50 kmph) with hail** very likely at isolated places over Punjab, Haryana-Chandigarh and West Madhya Pradesh; **with lightning and hailstorm** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **with gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, West Uttar Pradesh, Vidarbha, Madhya Maharashtra and Marathwada; **with lightning** at isolated places over Chhattisgarh, East Madhya Pradesh, Arunachal Pradesh and Kerala & Mahe.
- ❖ **Hot and humid weather** very likely to prevail over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Karnataka.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in many places over Gangetic West Bengal; at few places over north Odisha and in isolated pockets over Sub-Himalayan West Bengal; **heat wave conditions** in isolated pockets over Uttar Pradesh, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka.

### 27 April (Day 3):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) and hail** very likely at isolated places over Haryana-Chandigarh-Delhi, Punjab and Madhya Pradesh; **with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Chhattisgarh; **with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Uttarakhand, Vidarbha, Assam & Meghalaya, Madhya Maharashtra, Marathwada and Telangana; **with lightning** at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Heavy rainfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Karnataka.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in many places over Gangetic West Bengal; at few places over Odisha and in isolated pockets over Sub-Himalayan West Bengal; **heat wave conditions** in isolated pockets over Uttar Pradesh, Bihar, Jharkhand, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Warm night** very likely to prevail at isolated places over Odisha.

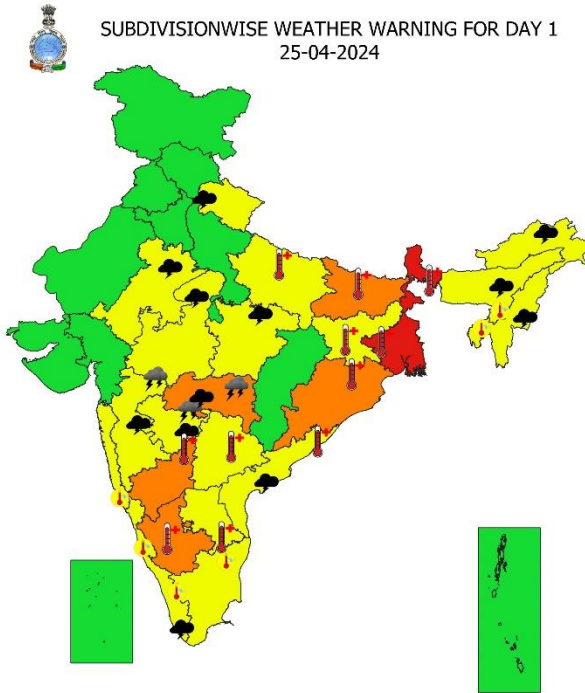
### 28 April (Day 4):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Chhattisgarh; **with lightning and hailstorm** at isolated places over Himachal Pradesh; **with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Uttarakhand, Vidarbha, Assam & Meghalaya and Telangana; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Heavy rainfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Hot and humid weather** likely to prevail over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Karnataka.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in many places over Gangetic West Bengal; at few places over Odisha and in isolated pockets over Sub-Himalayan West Bengal; **heat wave conditions** in isolated pockets over Uttar Pradesh, Bihar, Jharkhand, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Warm night** likely to prevail at isolated places over Odisha.

### 29 April (Day 5):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Chhattisgarh; **with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Uttarakhand and Telangana; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Hot and humid weather** likely to prevail over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Karnataka.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in many places over Gangetic West Bengal; at few places over Odisha and in isolated pockets over Sub-Himalayan West Bengal; **heat wave conditions** in isolated pockets over Uttar Pradesh, Bihar, Jharkhand, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Warm night** likely to prevail at isolated places over Odisha.

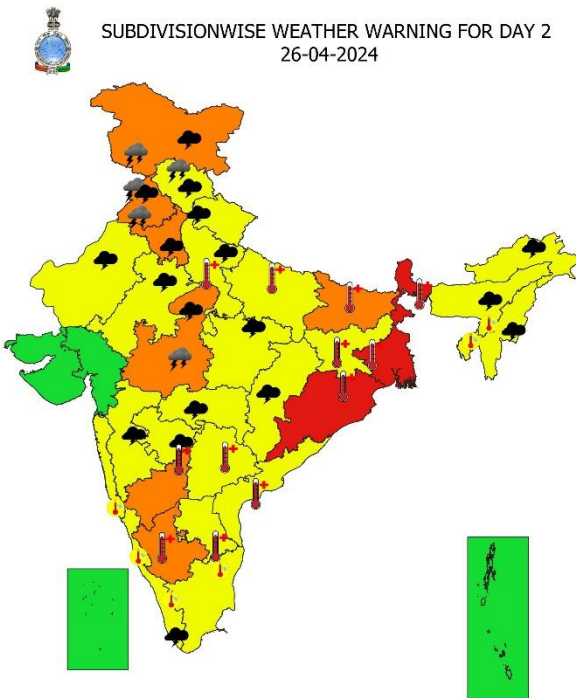
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 1  
 25-04-2024**



**Subdivision Warning**

|                      |            |                      |                           |
|----------------------|------------|----------------------|---------------------------|
| Fog                  | Heavy Snow | Cold Day             | <b>Subdivision Colour</b> |
| 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)     |

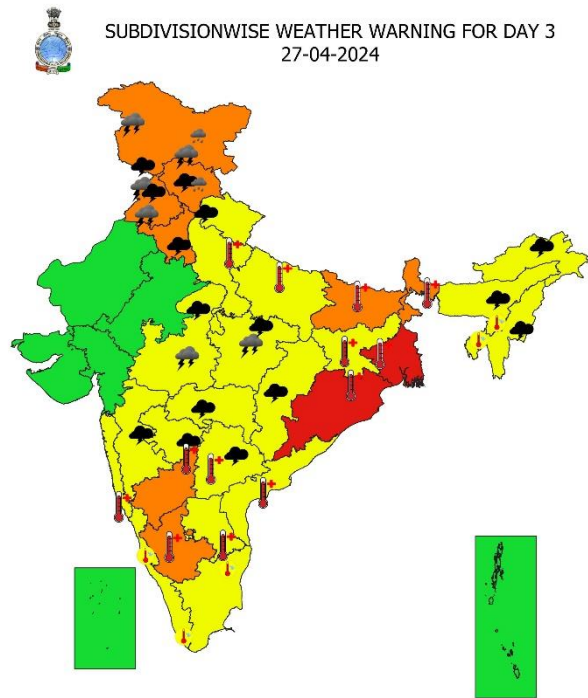
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 2  
 26-04-2024**



**Subdivision Warning**

|                      |            |                      |                           |
|----------------------|------------|----------------------|---------------------------|
| Fog                  | Heavy Snow | Cold Day             | <b>Subdivision Colour</b> |
| 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)     |

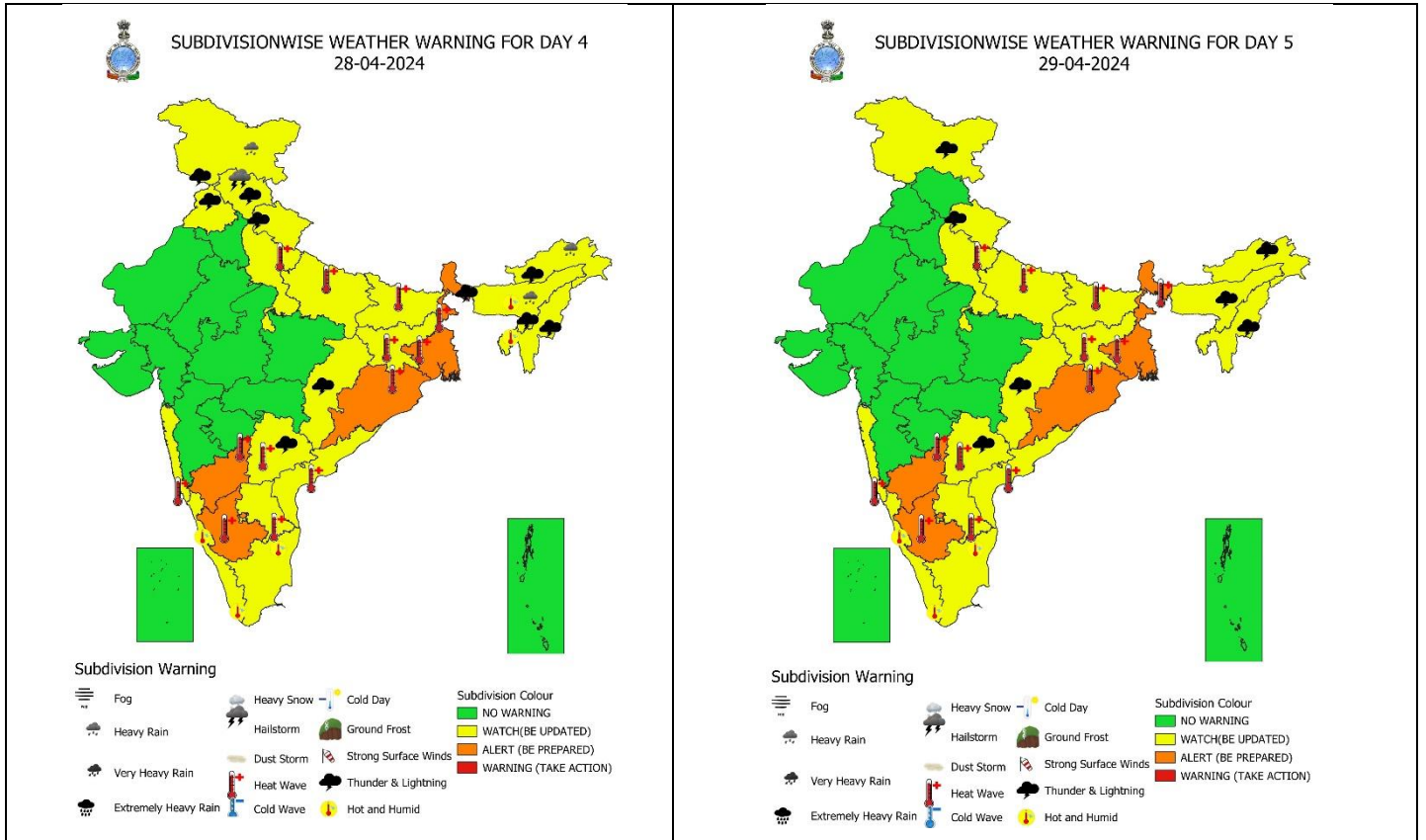
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 3  
 27-04-2024**



**Subdivision Warning**

|                      |            |                      |                           |
|----------------------|------------|----------------------|---------------------------|
| Fog                  | Heavy Snow | Cold Day             | <b>Subdivision Colour</b> |
| 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 expected and action suggested due to thunderstorm accompanied with lightning/gusty winds & Hailstorm over Vidarbha on 25<sup>th</sup>; West Madhya Pradesh on 26<sup>th</sup>; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab and Haryana on 26<sup>th</sup> & 27<sup>th</sup>, Himachal Pradesh on 27<sup>th</sup> & 28<sup>th</sup> April, 2024.**

**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 & Action Suggested due to very heavy/heavy rainfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 27<sup>th</sup> & 28<sup>th</sup>; Himachal Pradesh on 27<sup>th</sup> and Arunachal Pradesh, Assam & Meghalaya on 28<sup>th</sup> April, 2024.**

**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.

**IMPACT & ACTION SUGGESTED due to Heat Wave Conditions:**

**Red alert Areas (West Bengal, Odisha)**

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

**Orange alert Areas (Bihar, Interior Karnataka)**

- ❖ 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 (Jharkhand, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Uttar Pradesh, Konkan)**

- ❖ 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 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 Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, West Madhya Pradesh, Vidarbha, Madhya Maharashtra and Marathwada. Keep the harvested produce at safer places or cover the heaps of harvested produce in the fields with tarpaulin sheets.
- Apply light and frequent irrigation to standing crops to avoid heat stress; provide mulching to conserve soil moisture and minimize evaporation in West Bengal, Odisha, Bihar, Jharkhand, Uttar Pradesh, Interior Karnataka, Andhra Pradesh and Telangana.
- Provide mechanical support to horticultural crops & staking to vegetables.

### 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  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
 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  $40^\circ\text{C}$   
 Warm Night: When minimum temperature departure  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
 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  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
 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  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
 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 < 1km**  
 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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