



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release  
Date: 21<sup>st</sup> March 2026  
Time of Issue: 1400 hours IST

**Subject: (i) Scattered thunderstorm, lightning & gusty winds likely to continue over Odisha, West Bengal & Sikkim & northeast India till 24th March. Isolated hailstorm activity also likely over West Bengal & Sikkim on 21st March. Isolated very heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim and heavy falls likely over Bihar on 21st March.**

**(ii) Hot & Humid conditions likely to prevail at isolated pockets over Konkan & Goa on 23rd & 24th and Kerala & Mahe and Coastal Karnataka during 21st to 23rd March.**

**(iii) Isolated to scattered light rainfall/snowfall with isolated thunderstorm, lightning & gusty winds speed reaching (30-50 kmph) likely over Himachal Pradesh and Uttarakhand on 23rd March.**

**Realised weather during past 24 hours ending at 0830 hours IST of today, the 21<sup>st</sup> March, 2026:**

- ❖ **Heavy rainfall (7-11cm)** has been recorded at isolated places over West Bengal & Sikkim, Odisha, Bihar, Saurashtra & Kutch and Uttarakhand.
- ❖ **Hailstorm** reported at isolated places over Meghalaya, Tripura, Gangetic West Bengal, Odisha, Punjab, Chhattisgarh, Uttar Pradesh, and Madhya Pradesh.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 50-80 kmph prevailed at isolated places over Meghalaya, Himachal Pradesh, Uttarakhand, Punjab, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Uttar Pradesh and East Madhya Pradesh and 30-50 kmph at isolated places over Arunachal Pradesh, Assam, Imphal, Jammu-Kashmir, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat Region, Saurashtra & Kutch, Gangetic West Bengal and Odisha

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

- ❖ **Maximum/day temperatures** were in the range(35°C-37°C) at many pockets of Vidarbha, Kerala, west Madhya Pradesh, Tamilnadu, Rayalaseema; at isolated pockets of Odisha, Gangetic West Bengal, Jharkhand, South Uttar Pradesh, North Interior Karnataka, South Chhattisgarh, North Coastal Andhra Pradesh & Yanam. it was less than 30°C over many pockets of plain of northwest India. **The highest maximum temperature of 37.6°C was reported at Khargone (West Madhya Pradesh) & Punalur (Kerala).**
- ❖ **Maximum Temperatures/day temperatures** were above normal (1.6°C to 3.0°C) at a few places over Arunachal Pradesh, Lakshadweep; at isolated places over Gangetic West Bengal, Jharkhand, Kerala & Mahe, Vidarbha; markedly below normal (-5.1°C or less) at most places over Uttarakhand; at many places over Gujarat Region, Himachal Pradesh; at a few places over Arunachal Pradesh, East Madhya Pradesh, East Rajasthan, Haryana-Chandigarh-Delhi, Punjab, West Madhya Pradesh, West Rajasthan, West Uttar Pradesh; at isolated places over Assam & Meghalaya, East Uttar Pradesh, Jammu & Kashmir, Madhya Maharashtra, Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim, Vidarbha; appreciably below normal (-3.1°C to -5.0°C) at many places over Marathwada; at a few places over Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Telangana; at isolated places over Coastal Andhra Pradesh & Yanam, Gangetic West Bengal, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal; below normal (-3.0°C to -1.6°C) at most places over Rayalaseema; at many places over Andaman & Nicobar Islands; at a few places over South Interior Karnataka; at isolated places over Bihar, Jharkhand, Konkan & Goa, Odisha.
- ❖ Maximum Temperature likely to be below normal over many parts of North India till 24<sup>th</sup> March and normal during subsequent 3 days. They are likely to be near normal over South Peninsula India during the week.
- ❖ **Minimum/night temperatures** were in the range of 12–18°C over Punjab, Haryana, Chandigarh, Delhi, Rajasthan, Uttar Pradesh, Madhya Pradesh, north Chhattisgarh, Assam, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Kerala & Mahe. They were in the range of 18–25°C over remaining parts of the plains of the country. **Today, the lowest minimum temperature of 9.9 °C was observed at Ballawal Saunkhri (Punjab) over the plains of India.**

- ❖ **Minimum/night Temperature** were above normal (1.6°C to 3.0°C) over Assam, Manipur, Coastal Andhra Pradesh & Yanam, Saurashtra & Kutch; below normal (-3.0°C to -1.6°C) over Jammu & Kashmir, Punjab, Haryana, Delhi, Rajasthan, Gujarat State, Maharashtra, Karnataka, Odisha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Telangana and near normal over rest parts of the country.

#### Weather Systems, Forecast and Warnings (refer to ANNEXURE I & II):

- ❖ The **Western Disturbance** now seen as a trough from north Haryana to north Chhattisgarh across Uttar Pradesh, East Madhya Pradesh between 3.1 & 12.6 km above mean sea level.
- ❖ An **upper air cyclonic circulation** lies over South Interior Karnataka & neighbourhood in lower tropospheric level.
- ❖ A **trough** from Gulf of Mannar to North Interior Karnataka across Tamil Nadu and South Interior Karnataka in lower tropospheric level.
- ❖ **Subtropical westerly Jet Stream** with core winds of the order of 70 knots at 12.6 km above mean sea level prevails over East India.
- ❖ An **upper air cyclonic circulation** lies over East Bangladesh & neighbourhood in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over southwest Rajasthan & adjoining Pakistan in lower tropospheric level.
- ❖ A **trough** runs along Long. 88°E to the north of Lat. 22°N between lower and middle tropospheric level.
- ❖ A fresh **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 57°E to the north of Lat. 32°N.
- ❖ A fresh feeble **Western Disturbance** is likely to affect northwest India from 26<sup>th</sup> March 2026.

#### Under the influence of above systems, the following weather is likely:

##### Northwest India:

- ❖ **Isolated to scattered** light rainfall/snowfall with isolated thunderstorm, lightning & gusty winds speed reaching (30-50 kmph) likely over **Himachal Pradesh and Uttarakhand** on 23<sup>rd</sup> March. Another fresh wet spell with isolated to scattered light to moderate rainfall/snowfall likely over the region during 24<sup>th</sup> -27<sup>th</sup> March.
- ❖ **Isolated** thunderstorm, lightning & gusty winds speed reaching (30-40 kmph) likely over East Uttar Pradesh on 21<sup>st</sup>; over West Rajasthan on 21<sup>st</sup> & 22<sup>nd</sup> March.

##### Northeast India:

- ❖ **Scattered to fairly widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds speed reaching (30-50 kmph)** likely over Assam & Meghalaya on 22<sup>st</sup> and Nagaland, Manipur, Mizoram & Tripura on 21<sup>st</sup> & 22<sup>nd</sup> March; **Thunderstorm & lightning** likely over Northeast India during next 5 days.
- ❖ **Isolated heavy rainfall** likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 27<sup>th</sup>; Arunachal Pradesh on 24<sup>th</sup> & 27<sup>th</sup> March.

##### East India:

- ❖ Isolated **heavy rainfall** very likely over Bihar 21<sup>st</sup> March with isolated **very heavy falls** rainfall likely over Sub-Himalayan West Bengal & Sikkim on 21<sup>st</sup> March.
- ❖ **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (40-50 gusting to 60 kmph)** likely over Jharkhand on 21<sup>st</sup>; Bihar on 21<sup>st</sup>, 26<sup>th</sup> & 27<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim during 22<sup>nd</sup> -25<sup>th</sup> March.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** at isolated places over Odisha and Sub-Himalayan West Bengal & Sikkim on 21<sup>st</sup> March.
- ❖ Isolated **Hailstorm** activity likely over Gangetic West Bengal on 21<sup>st</sup> March.

##### Central India:

- ❖ **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (40-60 kmph)** likely over Vidarbha on 24<sup>th</sup> with thunderstorm, lightning & **gusty winds speed reaching (30-40 kmph)** over Chhattisgarh on 21<sup>st</sup> and with lightening on 24<sup>th</sup> & 25<sup>th</sup> March.

##### South Peninsular India:

- ❖ **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Coastal Andhra Pradesh & Yanam on 21<sup>st</sup>, 23<sup>rd</sup> & 24<sup>th</sup>; Rayalaseema, Telangana, North Interior Karnataka on 21<sup>st</sup>; **with lightning** over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and South Interior Karnataka on 21<sup>st</sup> March.

### West India:

❖ **Isolated** light/moderate rainfall with **thunderstorm & lightning & gusty winds speed reaching (30-50 kmph)** likely over Madhya Maharashtra and Marathawada on 21<sup>st</sup>, 23<sup>rd</sup> & 24<sup>th</sup> March.

### Hot & Humid weather Warnings:

❖ **Hot & humid conditions** very likely to prevail in isolated pockets over Kerala & Mahe during 21<sup>st</sup>-23<sup>rd</sup>; Konkan & Goa on 23<sup>rd</sup> & 24<sup>th</sup> and Coastal Karnataka on 21<sup>st</sup> & 22<sup>nd</sup> March.

### Forecast of maximum/day temperatures:

- ❖ Gradual rise in maximum temperatures by 6-8°C likely over Northwest India during next 5 days and no large change thereafter.
- ❖ Gradual rise in maximum temperatures by 3-5°C likely over Central India during next 5 days and no large change thereafter.
- ❖ Gradual fall in maximum temperatures by 2-4°C likely over East India during next 24 hours and gradual rise by 2-3°C during subsequent 5 days.
- ❖ Gradual rise in maximum temperatures by 3-5°C likely over Gujarat State during next 3 days and no significant change during subsequent 4 days.
- ❖ Gradual rise in maximum temperatures by 2-4°C likely over Maharashtra during next 2 days and no significant change during subsequent 5 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

### Fisherman Warning:

Fishermen are advised not to venture into the following areas during 21<sup>st</sup> March to 26<sup>th</sup> March, 2026:

**Bay of Bengal:** Along and off north Odisha, West Bengal, Bangladesh coasts and adjoining sea areas on 21<sup>st</sup> March.

**Arabian Sea:** No Warning.

### Weather conditions and forecast over Delhi/NCR during 21<sup>st</sup>-24<sup>th</sup> March, 2026 (ANNEXURE III)

For more details, kindly refer National Weather Bulletin:

[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

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

For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php>

### Significant rainfall recorded (in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today):

**Sub-Himalayan West Bengal & Sikkim:** Jhallong 11, Kalimpong 9, Malda 7,

**Bihar:** Mohiuddinnagar 7, Kodawanpur 7, Chhaurahi 7, Bibhutipur 7, Korha 7, Cheria 1 7

**Uttarakhand:** Keertinagar 7,

**Gangetic West Bengal -** Burdwan 9, Sagar Island 7,

**Odisha:** Laikera 10, Kirmira 10, Jamda 7, Rajgangpur

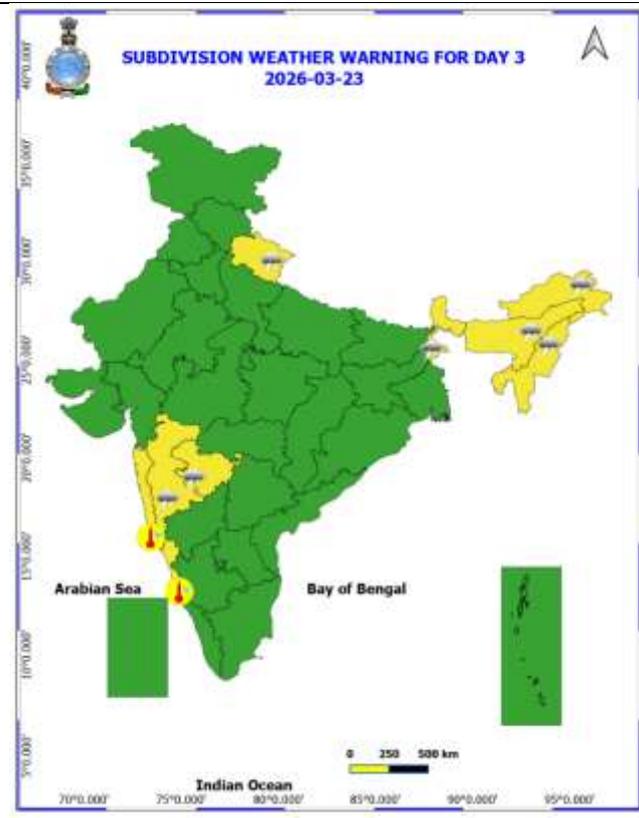
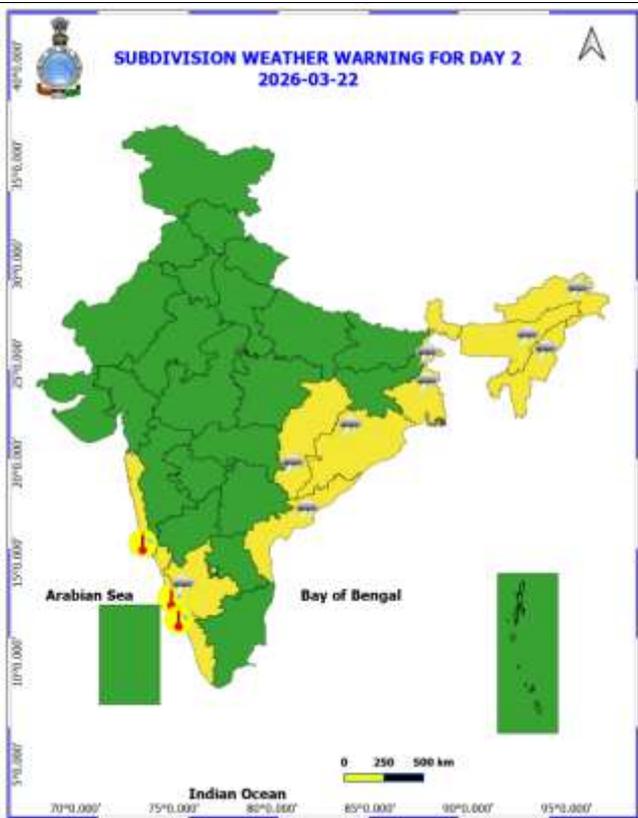
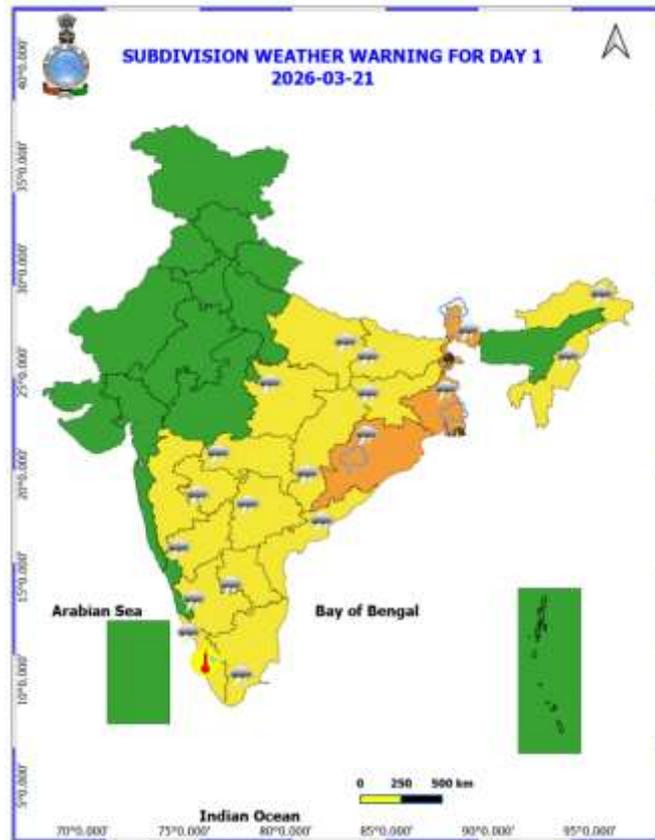
**Saurashtra & Kutch:** Gir Gadhada 7

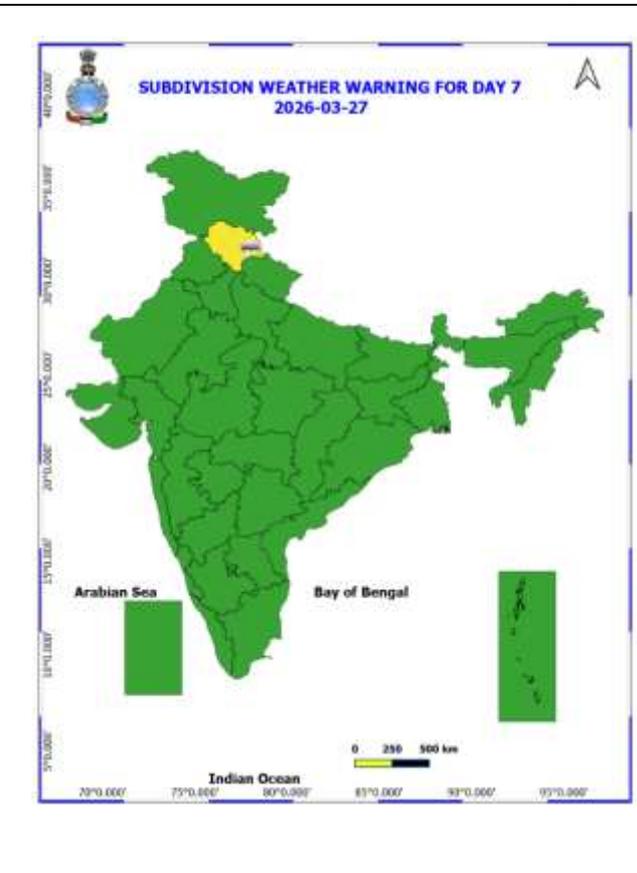
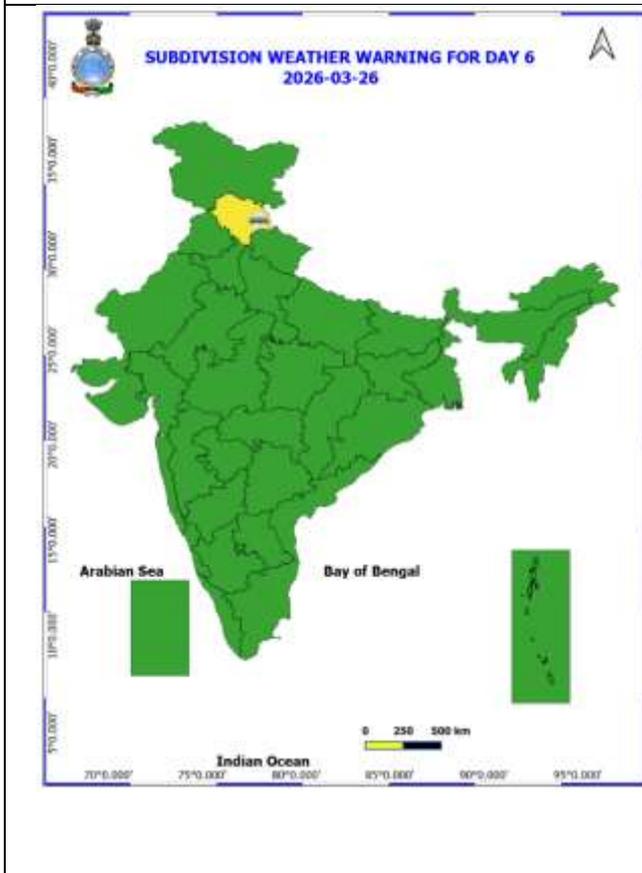
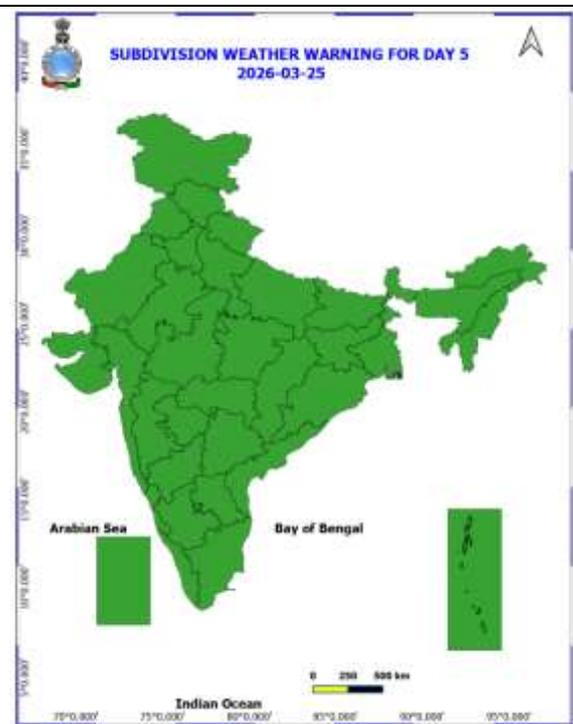
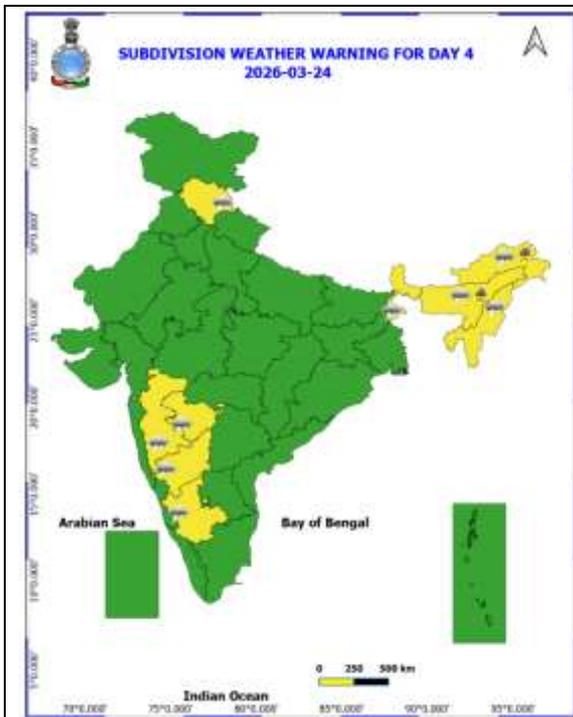
**Gusty winds (in kmph) (from 0830 hours IST of yesterday to 0830 hours IST of today):**

- ❖ **Arunachal Pradesh:** Kalaktang 39
- ❖ **Assam & Meghalaya:** Mawsynram 61, Chirang 39
- ❖ **Imphal:** Kohima – 33, Thonoknyu 37
- ❖ **Jammu & Kashmir:** Baramulla 33, Poonch 31
- ❖ **Himachal Pradesh:** Neri 54
- ❖ **Uttarakhand:** Mukteshwar 52, Ranichauri 41, Pantnagar 37, Bharsar 35, Champawat/Kashipur 30
- ❖ **Punjab:** Hoshiarpur 50
- ❖ **Konkan & Goa:** Karjat Raigad- 37, Santacruz Mumbai 33, Palghar 30, Devgad Sindhudurg 31
- ❖ **Madhya Maharashtra:** Talegaon Pune 33, Baramati Pune 31
- ❖ **Marathawada:** Tulga Dharashiv 30
- ❖ **Gujarat Region:** Dahod 39
- ❖ **Saurashtra & Kutch:** Surendranagar, Morbi, Gir Somnath 26
- ❖ **Chhattisgarh:** Surajpur-70, Koriya-39, Raipur 35, Korba 33
- ❖ **Gangetic West Bengal:** Berhampore 43, Kalyani 43, Durgapur-Airport 39, Burdwan 37, Amta 37, Dumdum 34, Jagatballapbur 30, Digha 30, Nimpith 30
- ❖ **Sub-Himalayan West Bengal & Sikkim:** Amfu-Pundibari56, Jalpaiguri35, Dinhata31, Mal31, Balurghat30
- ❖ **Odisha:** Nit\_Rourkela 48, Mayurbhanj 46, Cuttack 44, Janhukuda 41, Pitapalli 37, Bolangir 33
- ❖ **Jharkhand:** Simdega 57, Barhi 48, Diyakel-Khunti 43, Palamu43, Godda 39, Giridih 39, Jagannathpur37, Kodarma 37, Pakur 37, Ramgarh 37, Mc\_Ranchi 37, Saraikela 37, Ranchi 35, Gumla 31
- ❖ **Bihar:** Arrabari 70, Rajgir 67, Pusa 54, lit\_Patna 46, Supaul 44, Manjhi 44, Sipaya 43, Sukhet 43, Madhepura 41, Arwal 41, Sheikpura41, Ziradei 39, Aurangabad 39, Bodhgaya 37, Patna 35
- ❖ **West Madhya Pradesh:** Sehore 41, Ashoknagar 41, Bhopal 39, Dhar 35, Shivpuri 33, Indore 33, Agar 33, Guna 31 & Badwani 30
- ❖ **East Madhya Pradesh:** Katni-67 Kmph, Jabalpur-56, Satna, Narsinghpur 52, Rewa 37, Sagar 35 & Shahdole 39
- ❖ **West Uttar Pradesh:** Gaziabad 63, Bareilly 43
- ❖ **East Uttar Pradesh:** Banda 74, Fursatganj 70

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

- As the lead period increases forecast accuracy decrease.





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

Detailed districtwise MultiHazard weather warning for next five days available at  
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

**Weather forecast over Delhi/NCR during 21<sup>st</sup> March to 24<sup>th</sup> March 2026****Past Weather:**

There has been significant fall in maximum temperatures by 4 - 5°C and fall in minimum temperatures by 2 - 3°C during past 24 hours over Delhi. The maximum temperatures are in the range of 21-22°C and minimum temperatures are 12-14°C during past 24 hours over Delhi. The minimum temperatures are markedly below normal (-5.1°C or less) at isolated places and appreciably below normal (-3.1°C to -5.0°C) at a few places and below normal (-1.5°C to 1.5°C) over remaining part of Delhi. The maximum temperatures are markedly below normal (-5.1°C or less) at most places over Delhi. Generally cloudy sky with wind speed reaching up to 15 kmph from the west direction prevailed over past 24 hours. During the past 24 hours, light to very light rain was observed at most places across Delhi. Partly cloudy sky and surface wind speed reaching up to 10 kmph from the west direction prevailed over the region in the forenoon today.

**Weather Forecast:**

**21.03.2026:** Partly cloudy sky. Strong surface wind 20-3- kmph. The maximum temperatures over Delhi are likely to be in the range of 26°C to 28°C. The maximum temperature will be appreciably below normal (-3.1°C to -5.0°C) at most places over Delhi. The predominant surface wind is likely to be from northwest direction with wind reaching up to 20 kmph during the afternoon hours. The wind speed will gradually decrease becoming less than 12 kmph from north direction during the evening and night.

**22.03.2026:** Partly cloudy sky becoming generally cloudy sky towards night. The maximum and minimum temperatures over Delhi are likely to be in the range of 29°C to 31°C and 13°C to 15°C respectively. The minimum temperature will be below normal (-1.6°C to -3.0°C) at many places and appreciably below normal (-3.1°C to -5.0°C) at isolated places over Delhi. The maximum temperature will be below normal (-1.6°C to -3.0°C) at most places over Delhi. The predominant surface wind is likely to be from the north direction with wind reaching up to 15 kmph during the morning hours. The wind speed will increase becoming up to 18 kmph from northwest direction during the afternoon. The wind speed will gradually decrease becoming less than 10 kmph from the north direction during evening and night.

**23.03.2026:** Generally cloudy sky. Possibility of very light rain/drizzle accompanied with thunderstorm/lightning during forenoon to afternoon. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 30°C to 32°C and 15°C to 17°C respectively. The minimum temperature will be below normal (-1.6°C to -3.0°C) and the maximum temperature will be near normal (-1.5°C to 1.5°C) over Delhi. The predominant surface wind is likely to be from the west direction with wind speed associated with calm wind reaching up to 05 kmph during the morning hours. The wind speed will increase reaching up to 15 kmph from the north direction in the afternoon. The wind speed will gradually decrease becoming less than 10 kmph from the northwest direction during evening and night.

**24.03.2026:** Partly cloudy sky. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 30°C to 32°C and 15°C to 17°C respectively. The minimum temperatures will be below normal (-1.6°C to -3.0°C) and the maximum temperatures will be near normal (-1.5°C to 1.5°C) over Delhi. The predominant surface wind is likely to be from the northwest direction reaching up to 10 kmph during the morning hours. The predominant surface wind will gradually increase reaching up to 15 kmph from the north direction during the afternoon hours. The predominant surface wind will gradually decrease becoming less than 10 kmph from northeast direction during evening and night.

## **Impact expected and action suggested due to isolated thunderstorm with lightning/squally winds & Hailstorm over**

- ❖ Isolated **Hailstorm** activity likely over Gangetic West Bengal on 21<sup>st</sup> March.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** at isolated places over Odisha and Sub-Himalayan West Bengal & Sikkim on 21<sup>st</sup> March.

### **❖ Impact expected:**

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- 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:**

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- 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 & Action Suggested due to heavy/very heavy rainfall over**

- ❖ **Isolated heavy rainfall** likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 27<sup>th</sup>; Arunachal Pradesh on 24<sup>th</sup> & 27<sup>th</sup> March.
- ❖ **Isolated heavy rainfall** very likely over Bihar 21<sup>st</sup> March with isolated **very heavy falls** rainfall likely over Sub-Himalayan West Bengal & Sikkim on 21<sup>st</sup> March.

### **Impact Expected**

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas.
- 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.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landslips/mudslips/landsinks/mudsinks.
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

### **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 likely impact of Hailstorms**

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in **West Bengal**.

### Agromet advisories for likely impact of Heavy Rainfall

- In **Sub Himalayan West Bengal**, maintain proper drainage channel, and drain out excess water from fields of rice, maize, other standing crops, vegetables and orchard. Cover the nursery of cucurbits and Dalle khorsani with polyethylene sheets or agro-nets.
- In **Bihar**, ensure proper drainage to drain out excess waters from standing crop fields and vegetables and keep the harvested produce of mustard at safer places.

### Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

### Livestock / Poultry

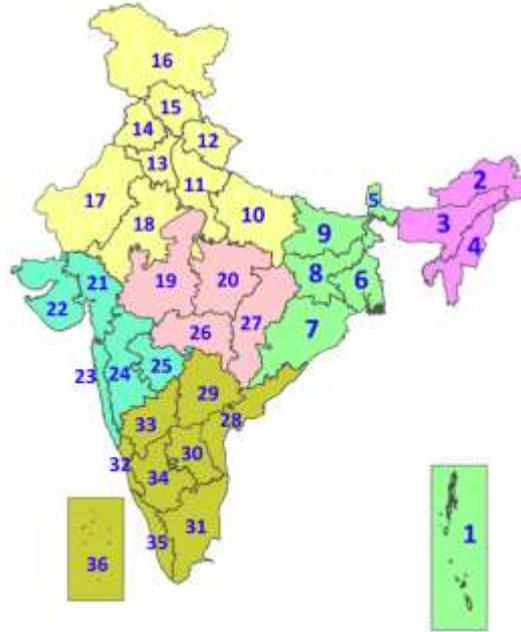
- Keep the animals inside the shed during Heavy Rainfall/Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.

### Legends & abbreviations:

- ❖ **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; 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.

**LEGENDS**

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. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक 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)

- |                      |                      |              |
|----------------------|----------------------|--------------|
| Fog                  | Heavy Snow           | Cold Wave    |
| Heavy Rain           | Dust Storm           | Cold Day     |
| Very Heavy Rain      | Heat Wave            | Ground Frost |
| Extremely Heavy Rain | Warm Night           |              |
| Thunder & Lightning  | Hot Day              |              |
| Hailstorm            | Hot & Humid          |              |
| Dust Raising Winds   | Strong Surface Winds |              |

**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

\* 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)

### DEFINITION/CRITERIA

<b>Rain/ Snow *</b>	<p><b>Heavy:</b> 64.5 to 115.5 mm/cm *</p> <p><b>Very Heavy:</b> 115.6 to 204.4 mm/cm*</p> <p><b>Extremely Heavy:</b> &gt; 204.4 mm/cm *</p>
<b>Heat Wave</b>	<p>When maximum temperature of a station reaches <math>\geq 40^{\circ}\text{C}</math> for plains and <math>\geq 30^{\circ}\text{C}</math> for hilly regions</p> <p><b>(a) Based on Departure from normal</b></p> <p><b>Heat Wave:</b> Maximum Temperature Departure from normal <math>4.5^{\circ}\text{C}</math> to <math>6.4^{\circ}\text{C}</math>.</p> <p><b>Severe Heat Wave:</b> Maximum Temperature Departure from normal <math>\geq 6.5^{\circ}\text{C}</math></p> <p><b>(b). Based on Actual maximum temperature</b></p> <p><b>Heat Wave:</b> When actual maximum temperature <math>\geq 45^{\circ}\text{C}</math>.</p> <p><b>Severe Heat Wave:</b> When actual maximum temperature <math>\geq 47^{\circ}\text{C}</math></p> <p><b>( c). Criteria for heat wave for coastal stations</b></p> <p>When maximum temperature departure is <math>&gt;4.5^{\circ}\text{C}</math> from normal. Heat Wave may be described provided maximum temperature <math>\geq 37^{\circ}\text{C}</math></p>
<b>Warm Night</b>	<p><b>When maximum temperature remains <math>40^{\circ}\text{C}</math></b></p> <p><b>Warm Night:</b> When minimum temperature departure <math>4.5^{\circ}\text{C}</math> to <math>6.4^{\circ}\text{C}</math>.</p> <p><b>Severe Warm Night:</b> When minimum temperature departure <math>&gt;6.4^{\circ}\text{C}</math>.</p>
<b>Cold Wave</b>	<p>When minimum temperature of a station <math>\leq 10^{\circ}\text{C}</math> for plains and <math>\leq 0^{\circ}\text{C}</math> for hilly regions.</p> <p><b>(a). Based on departure</b></p> <p><b>Cold Wave:</b> Minimum Temperature Departure from normal <math>-4.5^{\circ}\text{C}</math> to <math>-6.4^{\circ}\text{C}</math>.</p> <p><b>Severe Cold Wave:</b> Minimum Temperature Departure from normal <math>\leq -6.5^{\circ}\text{C}</math></p> <p><b>(b) Based on actual Minimum Temperature (for Plains only)</b></p> <p><b>Cold Wave :</b> When Minimum Temperature is <math>\leq 4.0^{\circ}\text{C}</math></p> <p><b>Severe Cold Wave:</b> When Minimum Temperature is <math>\leq 2.0^{\circ}\text{C}</math></p> <p><b>( c) For Coastal Stations</b></p> <p>When Minimum Temperature departure is <math>\leq -4.5^{\circ}\text{C}</math> &amp; actual Minimum Temperature is <math>\leq 15^{\circ}\text{C}</math></p>
<b>Cold Day</b>	<p>When minimum temperature of a station <math>\leq 10^{\circ}\text{C}</math> for plains and <math>\leq 0^{\circ}\text{C}</math> for hilly regions</p> <p><b>Based on departure</b></p> <p><b>Cold Day:</b> Maximum Temperature Departure from normal <math>-4.5^{\circ}\text{C}</math> to <math>-6.4^{\circ}\text{C}</math>.</p> <p><b>Severe Cold Day:</b> Maximum Temperature Departure from normal <math>\leq -6.5^{\circ}\text{C}</math></p>
<b>Fog</b>	<p><b>Phenomenon of small droplets suspended in air and the horizontal visibility <math>&lt; 1\text{km}</math></b></p> <p><b>Moderate Fog:</b> When the visibility between 500-200 metres</p> <p><b>Dense Fog:</b> when the visibility between 50- 200 metres</p> <p><b>Very Dense Fog:</b> when the visibility <math>&lt; 50</math> metres</p>
<b>Thunderstorm</b>	<p>Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)</p>
<b>Dust/Sand Storm</b>	<p>An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.</p>
<b>Frost</b>	<p><b>Ice deposits on ground</b></p> <p>Air temperature <math>\leq 4^{\circ}\text{C}</math> ( over Plains)</p>
<b>Squall</b>	<p><b>A strong wind that rises suddenly, lasts for atleast 1 minute.</b></p> <p><b>Moderate:</b> Wind speed 52-61 kmph</p> <p><b>Severe:</b> Wind speed 62-67 kmph</p> <p><b>Very Severe:</b> Wind speed <math>&gt;67</math> kmph</p>
<b>Sea State</b>	<p><b>Effect of various waves in the sea over specific area</b></p> <p><b>Rough to very rough:</b> Wind speed 41-62 kmph (22-33 knots) &amp; Wave height 2.5-6 metre</p> <p><b>High to very high:</b> Wind speed 63-117 kmph ( 34-63 knots) &amp; Wave height 6-14 metre</p> <p><b>Phenomenal:</b> Wind speed <math>&gt;117</math> kmph (<math>&gt;63</math> knots) &amp; Wave height <math>&gt;14</math> metre</p>
<b>Cyclone</b>	<p><b>Cyclonic Storm:</b> Wind speed 62-87 kmph (34-47 knots)</p> <p><b>Severe Cyclonic Storm:</b> Wind speed 88-117 kmph (48-63 knots)</p> <p><b>Very Severe Cyclonic Storm:</b> Wind speed 118-165 kmph (64 - 89 knots)</p> <p><b>Extremely Severe Cyclonic Storm:</b> Wind speed 166-220 kmph (90 -119 knots)</p> <p><b>Super Cyclone Storm:</b> Wind speed <math>&gt;220</math> kmph (<math>&gt;119</math> knots)</p>

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