



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 20th March 2026
Time of Issue: 1345 hours IST

Subject: (i) Scattered thunderstorm, lightning & gusty winds likely to continue over Western Himalayan Region and plains of northwest India till 20th March. Isolated hailstorm activity also likely over Uttarakhand and Uttar Pradesh on 20th March.

(ii) Scattered thunderstorm activities accompanied with Gusty winds likely to continue over Central India and East India till 21st March along with isolated hailstorm activity over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar and Jharkhand on 20th March and over West Bengal, Sikkim and Odisha on 20th & 21st March.

(iii) Isolated heavy rainfall likely over Himachal Pradesh and Uttarakhand on 20th; Assam & Meghalaya on 20th & 24th; Arunachal Pradesh on 24th; over Sub-Himalayan West Bengal & Sikkim on 20th & 21st with isolated very heavy falls over Sub-Himalayan West Bengal & Sikkim on 21st March.

(iv) Because of large scale thunderstorm activity in many parts of the country and consecutive approach of Western Disturbances, normal to below normal day temperatures likely during next one week. No significant heat wave conditions likely during next one week.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 20th March, 2026:

- ❖ **Heavy rainfall (7-11cm)** has been recorded at isolated places over Sub-Himalayan West Bengal & Sikkim, Tamil Nadu & Karaikal, Coastal Andhra Pradesh.
- ❖ **Hailstorm** reported at isolated places over West Uttar Pradesh, Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Odisha, Madhya Maharashtra, Marathwada and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 50-81 kmph prevailed at isolated places over Uttarakhand, Assam & Meghalaya, Marathwada, West Uttar Pradesh, Odisha, Vidarbha, Madhya Maharashtra, West Madhya Pradesh, Gujarat Region, Saurashtra & Kutch and 30-50 kmph at isolated places over Andaman & Nicobar Islands, Jharkhand, Nagaland, Arunachal Pradesh, Konkan, Sub-Himalaya West Bengal & Sikkim, Chhattisgarh, Jammu-Kashmir, East Uttar Pradesh and East Madhya Pradesh.

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

- ❖ **Maximum/day temperatures** were in the range (36°C-38°C) at a few places of East Uttar Pradesh; at isolated places of Madhya Pradesh, Gujarat State, Odisha, Marathwada, Madhya Maharashtra, Jharkhand, Chhattisgarh Gangetic West Bengal, Vidarbha, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe. **Yesterday, the highest maximum temperature of 38.2°C was reported at Daltonganj (Jharkhand).**
- ❖ **Maximum Temperatures/day temperatures** were above normal (1.6°C to 3.0°C) over East Uttar Pradesh, northeast Madhya Pradesh, Gangetic West Bengal; markedly below normal (-5.1°C or more) over many parts of Northwest India except East Uttar Pradesh; appreciably below normal (-5.0°C to -3.1°C) over Telangana, Arunachal Pradesh; below normal (-3.0°C to -1.6°C) over West Madhya Pradesh, Gujarat State, Maharashtra, Bihar, Assam, Interior Karnataka, Rayalaseema, Tamil Nadu and near normal over rest parts of the country.
- ❖ Because of large scale thunderstorm activity over Northwest India, maximum temperatures have fallen by 2-4°C over many parts of Northwest India.
- ❖ **Minimum/night temperatures** were in the range of 14-18°C over Punjab, Haryana, Chandigarh, Delhi, Rajasthan, Uttar Pradesh, Madhya Pradesh, Gujarat State, north Chhattisgarh, Assam, Madhya Maharashtra, Interior Karnataka. They were in the range of 18-25°C over remaining parts of the plains of the country. **Today, the lowest minimum temperature of 10.0°C was observed at Gurdaspur (Punjab) over the plains of India.**
- ❖ **Minimum/night Temperature** were markedly above normal (5.1°C or more) over East Uttar Pradesh & Bihar; appreciably above normal (3.1°C to 5.0°C) over northeast Madhya Pradesh; above normal (1.6°C to 3.0°C) over north Punjab, West Uttar Pradesh, West Madhya Pradesh, Jharkhand, Gangetic West Bengal, Assam; below normal (-3.0°C to -1.6°C) over Himachal Pradesh, Delhi, Rajasthan, Gujarat State, Maharashtra, Karnataka, Telangana and near normal over rest parts of the country.

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

- ❖ The **Western Disturbance** seen as a trough from North Pakistan to Southwest Madhya Pradesh across Punjab & Rajasthan in lower to upper tropospheric levels.
- ❖ An induced upper air **cyclonic circulation** lay over Haryana and a **trough** runs from this cyclonic circulation to North Gujrat in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lay over northwest Madhya Pradesh & adjoining south Uttar Pradesh and a **trough** runs from this upper air cyclonic circulation to Vidarbha in lower tropospheric levels.
- ❖ Another **trough** runs from cyclonic circulation over northwest Madhya Pradesh & adjoining south Uttar Pradesh to Nagaland in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lay over Northeast Assam & adjoining Arunachal Pradesh in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lay over Lakshadweep & neighbourhood in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lay over westcentral Bay of Bengal off north Coastal Andhra Pradesh in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lay over South Interior Karnataka & neighbourhood in lower tropospheric levels.
- ❖ A **trough** runs from Gulf of Mannar to North Interior Karnataka in lower tropospheric levels.
- ❖ **Subtropical westerly Jet Stream** with core winds of the order of 95 knots at 12.6 km above mean sea level prevails over East India.
- ❖ A fresh feeble **Western Disturbance** is likely to affect Northwest India from 22nd March and another active Western Disturbance is likely to affect northwest India from 26th March 2026.

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

Northwest India:

- ❖ **Widespread** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 kmph gusting to 60 kmph) likely over Western Himalayan region on 20th March and reduction in intensity thereafter. **Isolated heavy rainfall/snowfall very likely over Himachal Pradesh and Uttarakhand on 20th March.** Another fresh wet spell with isolated to scattered light to moderate rainfall/snowfall likely with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 kmph) over Himachal Pradesh on 23rd & 26th & Uttarakhand on 23rd March.
- ❖ **Scattered to fairly widespread** light to moderate rainfall accompanied with isolated thunderstorm, lightning & gusty winds speed reaching (30-40 kmph) likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh on 20th and East Uttar Pradesh on 20th & 21st; with **lightning** over East Rajasthan on 20th March.
- ❖ Isolated **Hailstorm** activity likely over Uttarakhand and Uttar Pradesh on 20th 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 20th and Nagaland, Manipur, Mizoram & Tripura on 20th & 21st March; **Thunderstorm & lightning** likely over Northeast India during next 5 days.
- ❖ **Isolated heavy rainfall** likely over Assam & Meghalaya on 20th & 24th; Arunachal Pradesh on 24th March.
- ❖ Isolated **Hailstorm** activity likely over Tripura on 20th March.

East & Central India:

- ❖ **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (40-50 gusting to 60 kmph)** likely over Sub-Himalayan West Bengal & Sikkim during 20th-24th March. Isolated **heavy rainfall** very likely over Sub-Himalayan West Bengal & Sikkim on 20th & 21st March with isolated **very heavy falls** on 21st March.
- ❖ **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (40-50 gusting to 60 kmph)** likely over Central & East India during next 2-3 days.
- ❖ **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Jharkhand on 20th; Gangetic West Bengal on 20th & 21st March.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** at isolated places over Odisha on 20th & 21st and Sub-Himalayan West Bengal & Sikkim on 21st March.
- ❖ Isolated **Hailstorm** activity likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand on 20th and West Bengal & Sikkim, Odisha on 20th & 21st 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 during 20th-22nd; Rayalaseema, Telangana, North Interior Karnataka on 20th & 21st; South Interior Karnataka on 20th March; **with lightning** over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe on 20th & 21st and South Interior Karnataka on 21st, 22nd & 24th March.

West India:

- ❖ **Isolated** light/moderate rainfall with **thunderstorm & lightning & gusty winds speed reaching (30-50 kmph)** likely over Madhya Maharashtra on 20th, 23rd & 24th; Marathwada on 20th, 21st, 23rd & 24th March.
- ❖ Isolated **Hailstorm** activity likely over Madhya Maharashtra and Marathwada on 20th March.

Hot & Humid weather Warnings:

- ❖ **Hot & humid conditions** very likely to prevail in isolated pockets over Kerala & Mahe during 20th-22nd; Konkan & Goa and Coastal Karnataka on 22nd & 23rd March.

Forecast of maximum/day temperatures:

- ❖ Gradual fall in maximum temperatures by 2-3°C likely over Northwest India during next 24 hours and gradual rise by 5-7°C during subsequent 6 days except Uttar Pradesh where maximum temperatures are likely to gradually fall by 6-8°C during next 2 days and gradual rise by 4-6°C during subsequent 5 days.
- ❖ No significant change in maximum temperatures likely over Central India during next 2 days; gradual rise by 3-5°C during subsequent 5 days.
- ❖ Gradual fall in maximum temperatures by 2-3°C likely over East India during next 2 days and gradual rise by 3-5°C during subsequent 5 days.
- ❖ Gradual rise in maximum temperatures by 3-5°C likely over Gujarat State during next 4 days and no significant change during subsequent 3 days.
- ❖ Gradual rise in maximum temperatures by 2-4°C likely over Maharashtra during next 4 days and no significant change during subsequent 3 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:

Bay of Bengal: Along and off north Odisha & West Bengal coasts from 20th March to 22nd March.

Arabian Sea: No Warning.

Weather conditions and forecast over Delhi/NCR during 20th-23rd March, 2026 (ANNEXURE III)

For more details, kindly refer National Weather Bulletin:

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:** Moraghat Tea Estate (dist Jalpaiguri) 10, Gandrapara Tea Garden (dist Jalpaiguri) 8, Rongli (dist Pakyong) 7, Kurti T.e. (dist Jalpaiguri) 7, Palashbari Tea Estate (dist Jalpaiguri) 7, Mogulkata Tea Estate (dist Jalpaiguri) 7;
- ❖ **Tamil Nadu & Karaikal:** Edapadi (dist Salem) 9, Sankaridurg (dist Salem), Vepur (dist Cuddalore), Rasipuram (dist Namakkal) 8 each, Mettur AWS (dist Salem) 7;
- ❖ **Coastal Andhra Pradesh:** Kukunoor (dist Eluru) 7, Parvathipuram (dist Parvathipuram Manyam) 7, Komarada (dist Parvathipuram Manyam) 7

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

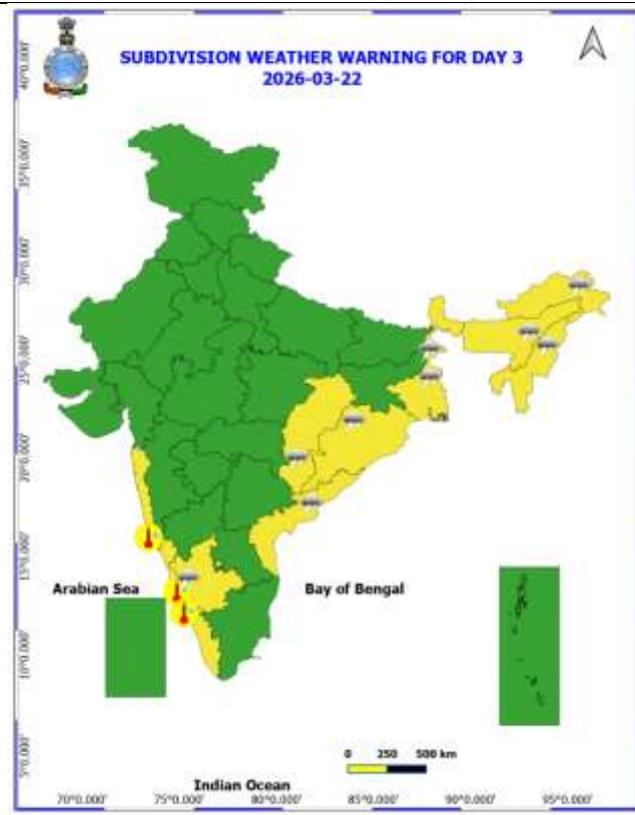
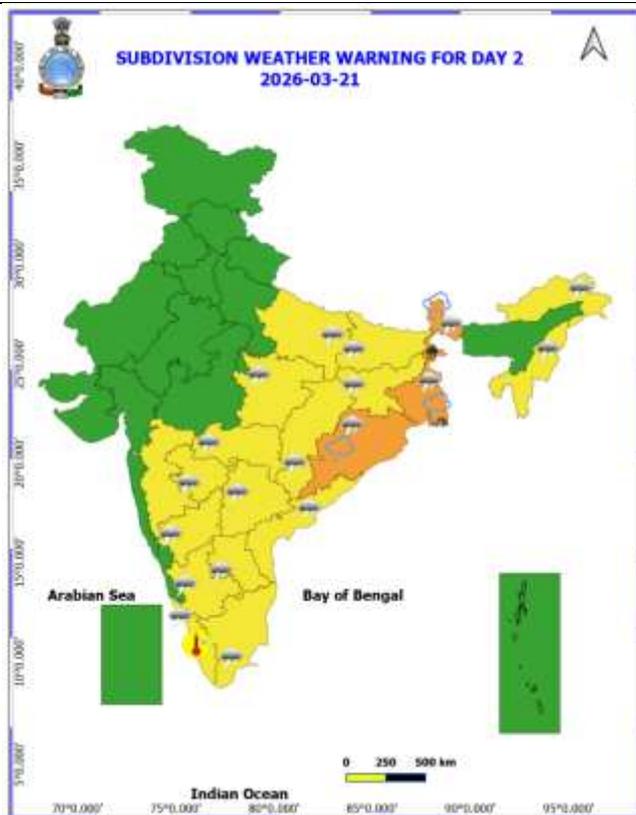
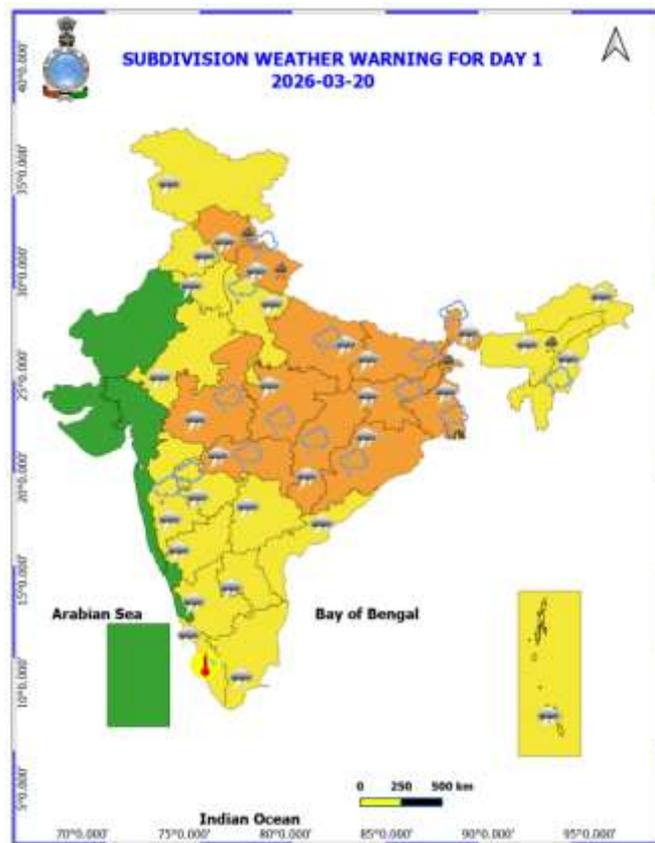
- ❖ **Saurashtra & Kutch:** Botad (Bhavnagar) 81;
- ❖ **Gujarat Region:** Dholera (Ahmedabad) 76;
- ❖ **West Madhya Pradesh:** Agar 74;
- ❖ **Madhya Maharashtra:** Dhule 63, Kalwan (Nashik) 52, Nandurbar 52, Chopda (Jalgaon) 44;
- ❖ **Vidarbha:** Akola 59, Wardha 43;
- ❖ **Odisha:** Balasore 56, Gunupur 46, NIT-Rourkela 33, Janhukuda 33, Mayurbhanj 33, Cuttack 30;
- ❖ **West Uttar Pradesh:** Hathras 52, Agra 48, Amroha 33, Bulandshahar 33;
- ❖ **Marathwada:** Parbhani 52, Hingoli 50, Dharashiv 50, Ambejogai (Beed) 31;
- ❖ **Assam & Meghalaya:** Mawkyrwat 50, Downen Town University 39;

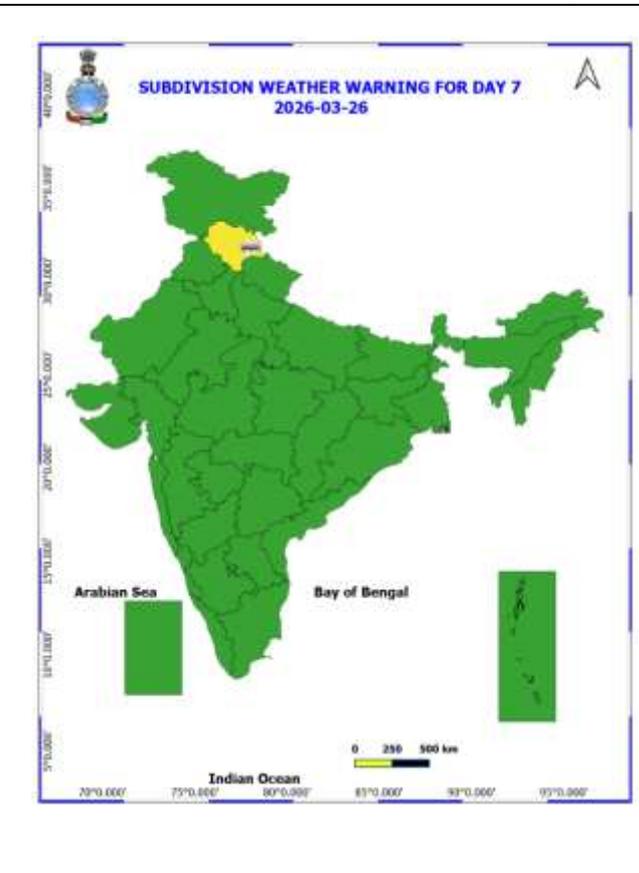
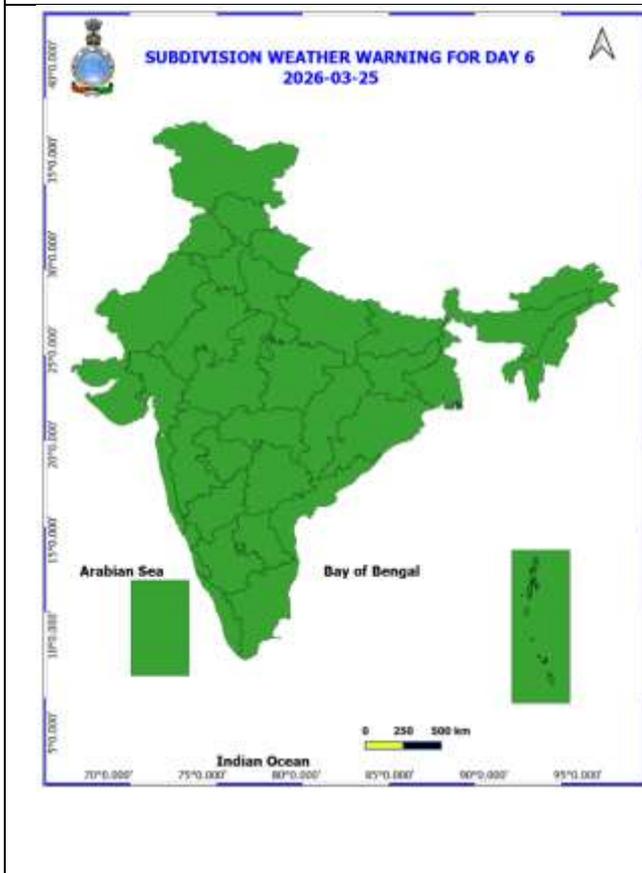
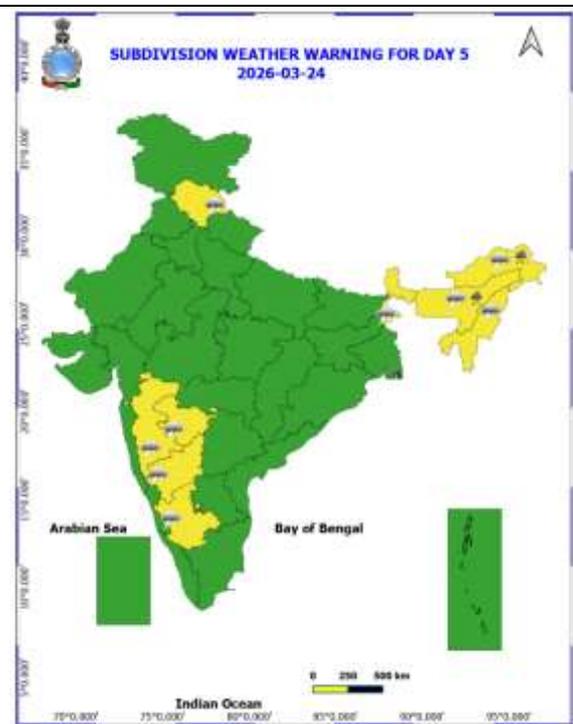
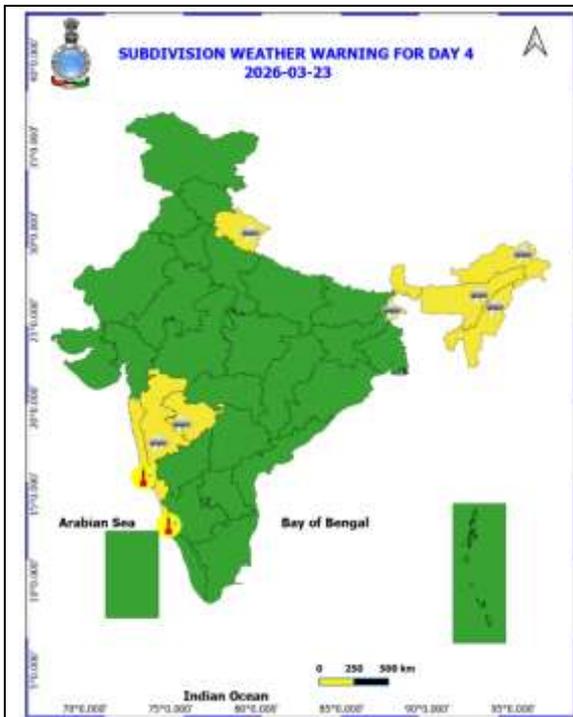
- ❖ **Uttarakhand:** Ranichauri 50, Pantnagar 46;
- ❖ **East Madhya Pradesh:** Narasinghpur 46;
- ❖ **East Uttar Pradesh:** Chandauli 44, Varanasi 41, Mirzapur 37;
- ❖ **Jammu-Kashmir:** Baramulla 44, Samba 31;
- ❖ **Chhattisgarh:** Koriya 43, Korba 41, Mungeli 37, Bilaspur 33;
- ❖ **Sub-Himalayan West Bengal & Sikkim:** Dhupguri 41, Pundibari 37;
- ❖ **Konkan:** Karjat (Raigad) 39, Palghar 31, Mulde (Sindhudurg) 30;
- ❖ **Arunachal Pradesh:** Kalaktang 39;
- ❖ **Nagaland:** Thonoknyu 37, Kohima 33;
- ❖ **Jharkhand:** Simdega 37, Ramgarh 31, Ranchi 31, Saraikela 30;
- ❖ **Andaman & Nicobar Islands:** Shri Vijayapuram 31

ANNEXURE I

Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	20- Mar	21- Mar	22- Mar	23- Mar	24- Mar	25- Mar	26- Mar
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL						
2	ARUNACHAL PRADESH	SCT	SCT	FWS	FWS	FWS	SCT	SCT
3	ASSAM & MEHGHALAYA	FWS	FWS	SCT	SCT	SCT	SCT	SCT
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	FWS	ISOL	SCT	SCT	SCT
6	GANGETIC WEST BENGAL	FWS	ISOL	SCT	ISOL	ISOL	ISOL	ISOL
7	ODISHA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	SCT	SCT	ISOL	DRY	DRY	DRY	DRY
9	BIHAR	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	FWS	SCT	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
13	HARYANA, CHANDIGARH & DELHI	FWS	DRY	DRY	ISOL	DRY	ISOL	ISOL
14	PUNJAB	SCT	DRY	ISOL	ISOL	DRY	ISOL	ISOL
15	HIMACHAL PRADESH	ISOL	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	ISOL	ISOL	ISOL	SCT	ISOL	ISOL	SCT
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
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	ISOL	DRY	DRY
25	MARATHWADA	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
26	VIDARBHA	ISOL	ISOL	DRY	DRY	ISOL	DRY	DRY
27	CHHATTISGARH	SCT	ISOL	ISOL	ISOL	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
31	TAMILNADU & PUDUCHERRY	ISOL						
32	COSTAL KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	DRY	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 20th March to 23rd March 2026**Past Weather:**

There has been significant fall in maximum temperatures by 5 - 7°C and fall in minimum temperatures by 1 - 2°C during past 24 hours over Delhi. The maximum temperatures are in the range of 25-27°C and minimum temperatures are 15 - 16°C during past 24 hours over Delhi. The minimum temperatures are below normal (-1.6°C to -3.0°C) at a few places and normal (-1.5°C to 1.5°C) over remaining part of Delhi. The maximum temperatures were markedly below normal (-5.1°C or less) at many places and appreciably below normal (-3.1°C to -5.0°C) over remaining parts of Delhi. Generally cloudy sky with wind speed reaching up to 20 kmph to gusting 36 kmph from the southwest direction prevailed over past 24 hours. During the past 24 hours, light to very light rain was observed at most places across Delhi. Generally cloudy sky with intermittent light rain accompanied with thunderstorm/lightning and surface wind speed reaching up to 15 kmph from the southwest direction prevailed over the region in the forenoon today.

Weather Forecast:

20.03.2026: Generally cloudy sky. A spell of very light to light rain accompanied with thunderstorm/lightning during afternoon to evening. The maximum temperatures over Delhi are likely to be in the range of 19°C to 21°C. The maximum temperature will be markedly below normal (-5.1°C or less) over Delhi. The predominant surface wind is likely to be from southeast direction with wind reaching up to 12 kmph during the afternoon hours. The wind speed will gradually increase up to 16 kmph from southeast direction during the evening and night.

21.03.2026: Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 27°C to 29°C and 13°C to 15°C respectively. The minimum temperature will be below normal (-1.6°C to -3.0°C) at most places over Delhi. The maximum 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 predominant surface wind is likely to be from the southeast direction with wind reaching up to 12 kmph during the morning hours. The wind speed will increase up to 16 kmph from north direction during the afternoon. The wind speed will decrease becoming less than 12 kmph from the northeast direction during evening and night.

22.03.2026: Partly cloudy sky becoming to generally cloudy sky towards evening. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 29°C to 31°C and 15°C to 17°C respectively. The minimum temperature will be near normal (-1.5°C to 1.5°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 north direction with wind speed reaching up to 16 kmph during the morning hours. The wind speed will increase reaching up to 18 kmph from the north direction in the afternoon. The wind speed will decrease becoming less than 12 kmph from the northeast direction during evening and night.

23.03.2026: Generally cloudy sky. Possibility of very light rain accompanied with thunderstorm/lightning. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 30°C to 32°C and 16°C to 18°C respectively. The minimum temperatures will be near normal (-1.5°C to 1.5°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 20 kmph from the north direction during the afternoon hours. The predominant surface wind will gradually decrease becoming less than 10 kmph from southeast 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 Uttarakhand, Uttar Pradesh, Tripura, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Madhya Maharashtra & Marathwada on 20th and West Bengal & Sikkim, Odisha on 20th & 21st March.
- ❖ **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Jharkhand on 20th; Gangetic West Bengal on 20th & 21st March.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** at isolated places over Odisha on 20th & 21st and Sub-Himalayan West Bengal & Sikkim on 21st 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

- ❖ Heavy rainfall/snowfall very likely over Himachal Pradesh and Uttarakhand on 20th March.
- ❖ Heavy rainfall likely over Assam & Meghalaya on 20th & 24th; Arunachal Pradesh on 24th March.
- ❖ Heavy rainfall likely over Sub-Himalayan West Bengal & Sikkim on 20th & 21st March with isolated very heavy falls on 21st 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 **Uttarakhand, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, West Bengal, Odisha, Jharkhand, Bihar, Madhya Maharashtra and Marathwada,**

Agromet advisories for likely impact of Heavy Rainfall

- In **Himachal Pradesh**, ensure proper drainage in the wheat crop and vegetables to avoid water stagnation.
- In **Uttarakhand**, ensure proper drainage in wheat, barley, mustard, lentil crops and vegetables. Keep the harvested produce of matured rapeseed, mustard & vegetable pea in safe place.
- In **Sub Himalayan West Bengal**, drain out excess water from standing crop fields. Cover the nursery of cucurbits and Dalle khorsani with polyethylene sheets or agro-nets. maintain proper drainage channels in the crop fields.

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

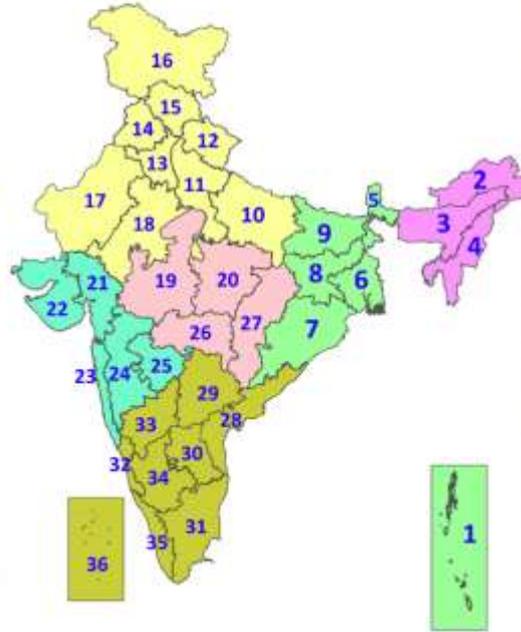
- Keep the animals inside the shed during Heavy Rainfall/Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.

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

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

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