



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 28<sup>th</sup> March 2026

Time of Issue: 1400 hours IST

**Subject: (i) Wet spell likely to continue over northwest India during the week with peak activity on 29<sup>th</sup> & 30<sup>th</sup> March and isolated heavy rainfall/snowfall over Kashmir valley on 30<sup>th</sup> March, 2026.  
(ii) Scattered to fairly widespread rainfall along with thunderstorm/lightning & gusty wind likely over Northeast & adjoining east India during the week with possibility of isolated heavy falls over Northeast India during most days of the week and Isolated Hailstorms also likely over East India on 28<sup>th</sup> March.  
(iii) Isolated rainfall along with thunderstorm, lightning & gusty winds likely to continue over South Peninsular India during the week.**

**Realised weather during past 24 hours ending at 0830 hours IST of today, the 28<sup>th</sup> March, 2026:**

- ❖ **Heavy to very Heavy Rainfall (7-20cm)** has been recorded at isolated places over Meghalaya
- ❖ **Heavy rainfall (7-11cm)** has been recorded at isolated places over Sikkim and North Interior Karnataka.
- ❖ **Hailstorm activity** reported at isolated places over Uttarakhand and Bihar.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 30-80 kmph at isolated places over Uttarakhand, Konkan, Madhya Maharashtra, Marathwada, Haryana, Chhattisgarh, Gangetic West Bengal, Sub-Himalayan West Bengal & Sikkim, Odisha, Bihar, West Madhya Pradesh, East Madhya Pradesh, Chhattisgarh, Vidarbha, Arunachal Pradesh, Assam & Meghalaya, Manipur.

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

- ❖ **Maximum/day temperatures** were in the range (37°C-41°C): At many places over Maharashtra, Madhya Pradesh, Gujarat state; at a few places over Odisha, West Bengal, south peninsular India and in the range of (32°C- 37°C) at many places over Rajasthan, Uttar Pradesh, Bihar; at a few places over Chhattisgarh; at isolated places over Assam & Meghalaya, Tripura. **The highest maximum temperature of 41.5°C is reported at Kurnool (Andhra Pradesh).**
- ❖ **Maximum Temperatures/day temperatures** were markedly above normal (5.1°C or more) at isolated places over Jammu & Kashmir; appreciably above normal (3.1°C to 5.0°C) at a few places over Konkan & Goa; at isolated places over East Madhya Pradesh, Gangetic West Bengal, West Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka; at a few places over South Interior Karnataka, Vidarbha; at isolated places over Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Himachal Pradesh, Kerala & Mahe, Odisha, Rayalaseema, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal, Telangana.
- ❖ **Minimum/night temperatures** were in the range of **12–18°C** over Punjab, Haryana Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, Assam & Meghalaya, Sub-Himalayan West Bengal, Nagaland Mizoram, Kerala and Tamil Nadu, Puducherry & Karaikal. 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 Bhatinda (Punjab) over the plains of India.**
- ❖ **Minimum/night Temperature** were **appreciably above normal (3.1°C to 5.0°C)** over Punjab, Uttar Pradesh, Rajasthan, Gujarat State; **above normal (1.6°C to 3.0°C)** over Jammu-Kashmir, Himachal Pradesh, Haryana Chandigarh & Delhi, Madhya Pradesh, Maharashtra, Telangana, Arunachal Pradesh and Kerala & Mahe; **below normal (-3.0°C to -1.6°C)** over West Bengal & Sikkim, Odisha, Jharkhand, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Meghalaya and near normal over rest parts of the country.

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

- ❖ A **trough** in westerlies in lower to upper tropospheric levels runs roughly along Long. 86°E to the north of Lat. 23°N.
- ❖ The **Western Disturbance** as an upper air cyclonic circulation lies over North Iran & adjoining Caspian Sea in lower to upper tropospheric levels.

- ❖ An **upper air cyclonic circulation** lies over central Assam & neighbourhood in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over Sub-Himalayan West Bengal & neighbourhood in lower tropospheric levels.
- ❖ A **trough/Wind discontinuity** runs from Gangetic West Bengal to south Tamil Nadu across Odisha, Chhattisgarh, Telangana and Interior Karnataka in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over South Interior Karnataka & neighbourhood in lower tropospheric levels.
- ❖ A fresh western disturbance likely to affect Northwest India from 02<sup>nd</sup> April, 2026.

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

#### **Northwest India:**

- ❖ **Fairly widespread to widespread** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 gusting to 60 kmph) likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 28<sup>th</sup>-31<sup>st</sup> March; Himachal Pradesh during 28<sup>th</sup> -30<sup>th</sup> March and on 2<sup>nd</sup> and 03<sup>rd</sup> April Uttarakhand during 29<sup>th</sup>- 31<sup>st</sup> March.
- ❖ **Isolated to Scattered** light to moderate rainfall with thunderstorm, lightning & gusty winds speed reaching (30-50 kmph gusting to 60 kmph) likely over Punjab during 28<sup>th</sup>-30<sup>th</sup>; Haryana, Chandigarh & Delhi and West Uttar Pradesh and Rajasthan during 29<sup>th</sup>-31<sup>st</sup>; East Uttar Pradesh on 30<sup>th</sup> & 31<sup>st</sup> March.
- ❖ **Isolated heavy rainfall/snowfall** likely over Kashmir valley on 30<sup>th</sup> March.
- ❖ **Isolated hailstorm activity** also likely over Jammu-Kashmir and West Rajasthan on 29<sup>th</sup>; Himachal Pradesh, Punjab and Haryana Chandigarh & Delhi on 29<sup>th</sup> & 30<sup>th</sup>; Uttarakhand and East Rajasthan on 30<sup>th</sup> March.

#### **Northeast India:**

- ❖ **Scattered to fairly widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds speed reaching (30-50 gusting to 60 kmph)** likely over Arunachal Pradesh during 28<sup>th</sup> March- 03<sup>rd</sup> April; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 28<sup>th</sup> March- 01<sup>st</sup> April.
- ❖ **Isolated heavy rainfall** likely over Arunachal Pradesh on 28<sup>th</sup>, 29<sup>th</sup> & during 31<sup>st</sup> March – 03<sup>rd</sup> April; Assam & Meghalaya on 28<sup>th</sup>, 29<sup>th</sup>, 31<sup>st</sup> March and 01<sup>st</sup> April; Mizoram on 29<sup>th</sup> & Tripura 28<sup>th</sup> & 29<sup>th</sup> March.

#### **East 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 28<sup>th</sup> March- 01<sup>st</sup> April; Gangetic West Bengal on 31<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 Bihar during 28<sup>th</sup> -31<sup>st</sup> March; Jharkhand on 28<sup>th</sup>, 29<sup>th</sup> and during 31<sup>st</sup> March -02<sup>nd</sup> April and Odisha during 28<sup>th</sup> March-01<sup>st</sup> April.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Sub-Himalayan West Bengal & Sikkim and Bihar on 28<sup>th</sup> & 31<sup>st</sup>; Gangetic West Bengal, Jharkhand and Odisha on 28<sup>th</sup> March.
- ❖ **Isolated hailstorm activity** likely over West Bengal & Sikkim, Bihar, Jharkhand and Odisha on 28<sup>th</sup> March.
- ❖ **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 28<sup>th</sup> & 31<sup>st</sup> March.

#### **Central India:**

- ❖ **Isolated** light to moderate rainfall **with thunderstorm, lightning & gusty winds speed reaching (30-50 gusting to 60 kmph)** likely over West Madhya Pradesh during 29<sup>th</sup> March- 01<sup>st</sup> April; East Madhya Pradesh during 30<sup>th</sup> March -01<sup>st</sup> April; Vidarbha during 30<sup>th</sup> March -03<sup>rd</sup> April & Chhattisgarh during next 7 days.
- ❖ **Isolated hailstorm activity** likely over West Madhya Pradesh and Vidarbha on 30<sup>th</sup> March.

#### **West India:**

- ❖ **Isolated** light to moderate rainfall **with thunderstorm, lightning & gusty winds speed reaching (30-50 gusting to 60 kmph)** likely over Madhya Maharashtra and Marathwada during 29<sup>th</sup> March – 01<sup>st</sup> April; Gujarat State on 29<sup>th</sup> & 30<sup>th</sup> March; Coastal Maharashtra on 31<sup>st</sup> March- 01<sup>st</sup> April.
- ❖ **Isolated hailstorm activity** likely over Madhya Maharashtra and Marathwada on 30<sup>th</sup> & 31<sup>st</sup> March.

#### **South Peninsular India:**

- ❖ **Isolated** light to moderate rainfall **with thunderstorm, lightning & gusty winds speed reaching (30-50 gusting to 60 kmph)** likely over Kerala & Mahe on 28<sup>th</sup> & 30<sup>th</sup>; Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana

and Interior Karnataka during 28<sup>th</sup> March – 01<sup>st</sup> April with **lightning** over Tamil Nadu on 29<sup>th</sup> March; Coastal Karnataka and Kerala & Mahe during 30<sup>th</sup> March-01<sup>st</sup> April.

#### **Forecast of maximum/day temperatures:**

- ❖ Rise in maximum temperatures by 2-4°C likely over many parts of Northwest India (except Uttar Pradesh) during next 24 hours; gradual fall by 3-4°C during 29<sup>th</sup> & 30<sup>th</sup> March and rise by 2-4°C during 31<sup>st</sup> March-03<sup>rd</sup> April.
- ❖ Rise in maximum temperatures by 3-5°C likely over Uttar Pradesh on 28<sup>th</sup> & 29<sup>th</sup> March; fall by 3-5°C on 30<sup>th</sup> & 31<sup>st</sup> March and rise by 2-4°C during 01<sup>st</sup> -03<sup>rd</sup> April.
- ❖ No significant change in maximum temperatures likely over Central India till 31<sup>st</sup> March and gradual fall by 2-3°C during 01<sup>st</sup> -03<sup>rd</sup> April.
- ❖ Gradual fall in maximum temperatures by 2-4°C likely over East India on 28<sup>th</sup> & 29<sup>th</sup> March and gradual rise by 3-5°C during 30<sup>th</sup> March – 3<sup>rd</sup> April.
- ❖ No significant change in maximum temperatures likely over Gujarat State during 24 hours; gradual fall by 2-3°C during 29<sup>th</sup>-31<sup>st</sup> March and no significant change during 01<sup>st</sup> -03<sup>rd</sup> April.
- ❖ No significant change in maximum temperatures likely over Maharashtra during 28<sup>th</sup> -31<sup>st</sup> March and gradual fall by 2-3°C during 01<sup>st</sup> -03<sup>rd</sup> April.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

#### **Fishermen Warning:**

Fishermen are advised not to venture into the following areas during 28<sup>th</sup> March to 02<sup>nd</sup> April, 2026:

**Bay of Bengal:** Along and off north Odisha and West Bengal coasts on 28<sup>th</sup> March.

**Arabian Sea:** Along and off the Oman coast, Gulf of Oman & parts of northwest Arabian Sea on 28<sup>th</sup> & 29<sup>th</sup> March.

#### **Weather conditions and forecast over Delhi/NCR during 28<sup>th</sup> -31<sup>st</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):**

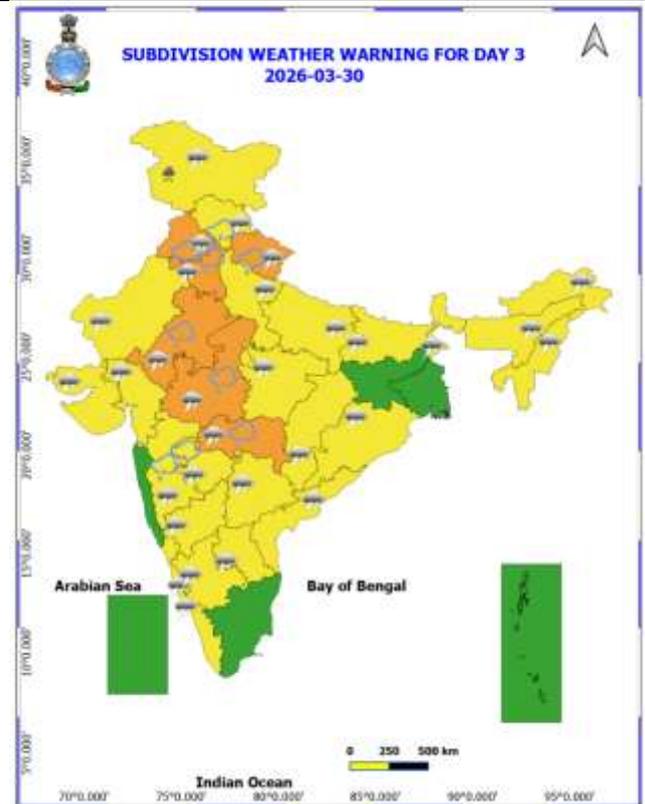
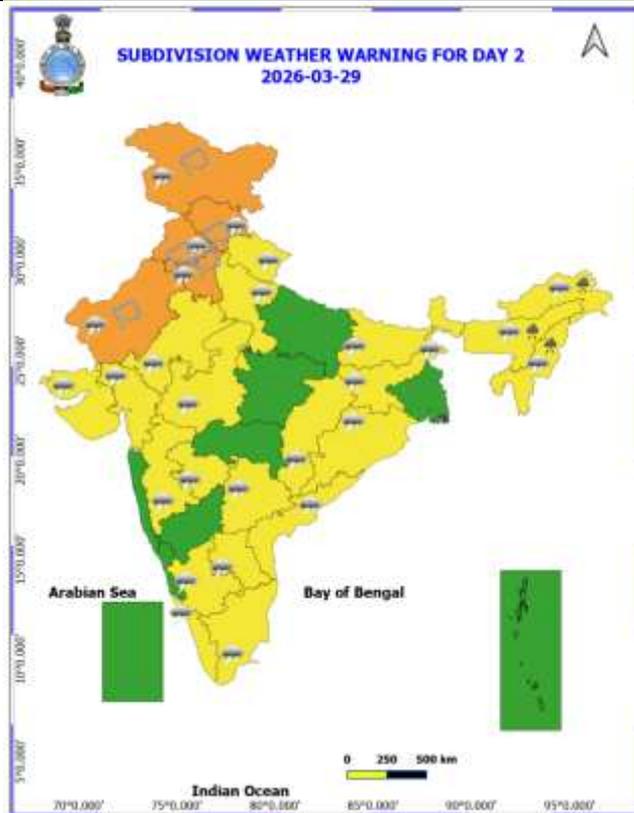
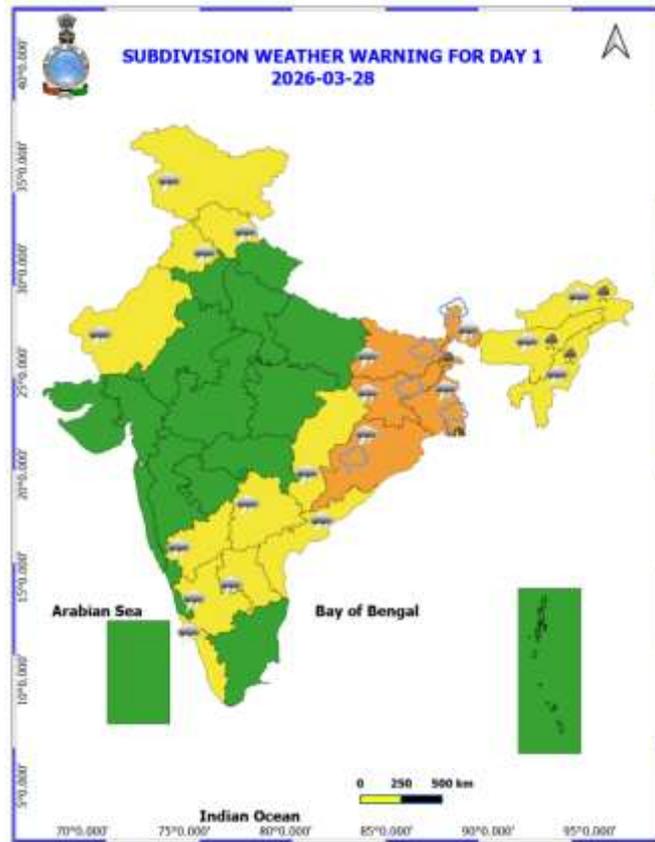
- ❖ **Assam & Meghalaya:** Mineng 13, Dhubri 9;
- ❖ **Sikkim:** Mangan 8;
- ❖ **North Interior Karnataka:** Annigere Ars (dist Dharwad) 7

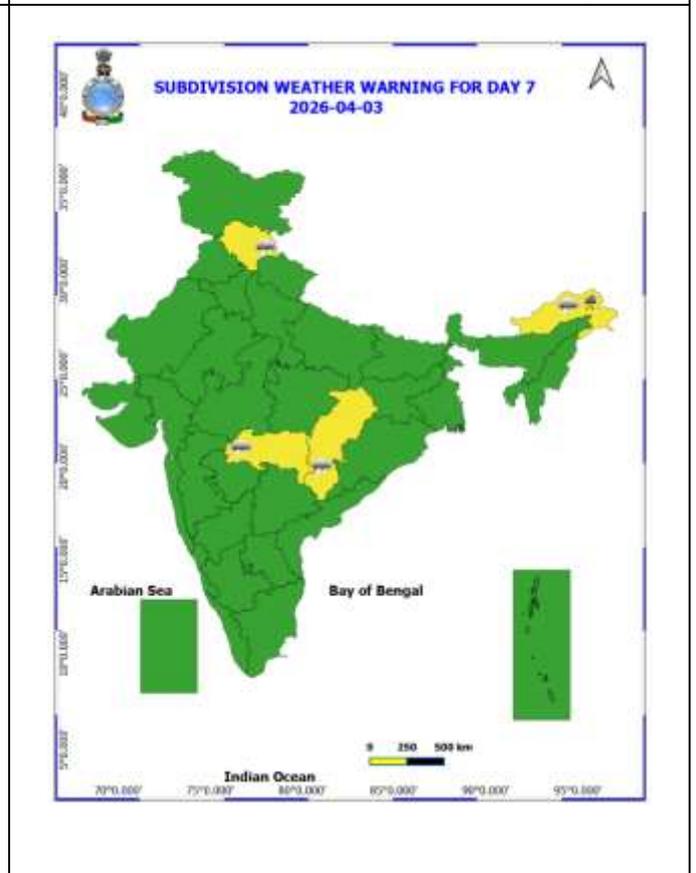
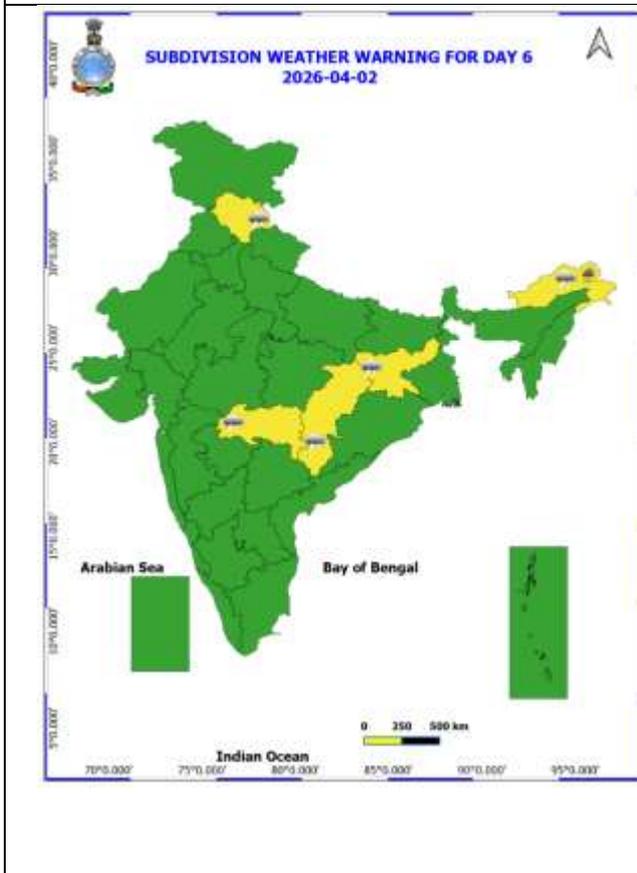
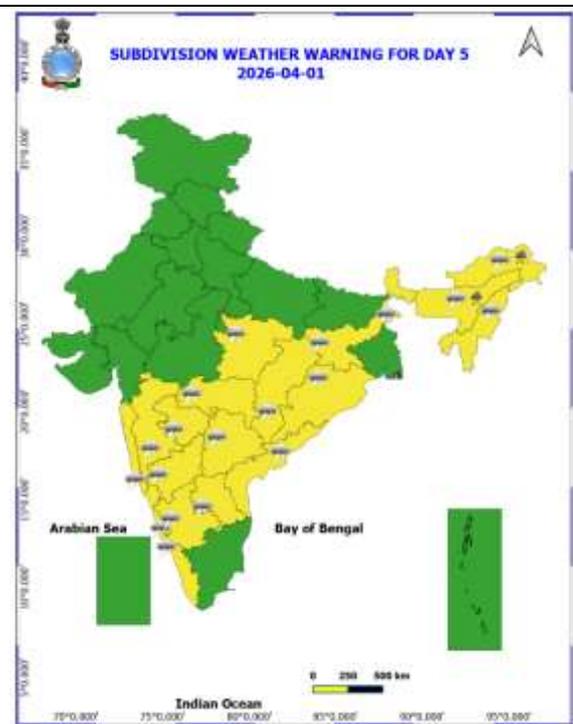
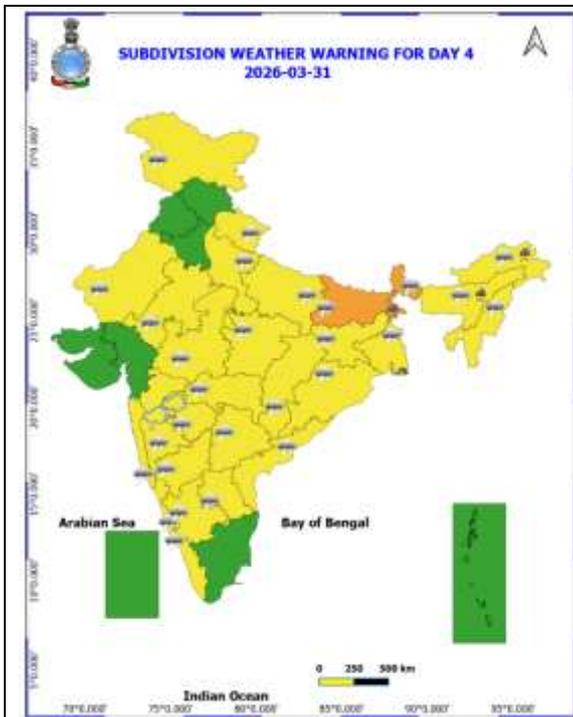
#### **Gusty winds (in kmph) (from 0830 hours IST of yesterday to 0830 hours IST of today):**

- ❖ **Odisha:** Mayurbhanj 94, Jharsuguda 83, Bhubaneswar 56
- ❖ **Assam & Meghalaya:** Baksa 93, Mawkyrwat 76
- ❖ **Bihar:** IIT Patna 80
- ❖ **Gangetic West Bengal:** Gangasagar 76, Amta 67, Dum Dum 61, Nimpith 59, Alipore 47, Jagatballavpur 46, Sonarpur 44, Bijpur 43
- ❖ **Jharkhand:** Khunti 68
- ❖ **Chhattisgarh:** Surajpur-57, Balod-52, Koriya-43, Balrampur-41, Korba-35, Bilaspur-33, janjgir-33;
- ❖ **East Madhya Pradesh:** Jabalpur 55, Rewa 46, Sagar 46, Shado39, Satna 33, Katni 31;
- ❖ **Sub-Himalayan West Bengal & Sikkim:** Pundibari 52;
- ❖ **Madhya Maharashtra:** Sangli 52, Kalwan (Nashik) 46, Baramati (Pune) 46, Vilholi (Nashik) 30, Rajguru Nagar (Pune) 41;
- ❖ **Uttarakhand:** Pantnagar-50, Mukteshwar/Koshyakutoli 41, Matela-39, Ranichauri/Champawat/Jollygrant/ -35, Kashipur 33;
- ❖ **West Madhya Pradesh:** Sehore 44, Agar 44, Narmadapuram 44, Guna 41, Ashoknagar 41, Bhopal 37, Indore 37, Neemuch 35, Betul 33, Barwani 33, Vidhisha 31, Dhar 31, Shivpuri 30, Ujjain 30;
- ❖ **Haryana:** Karnal 41;
- ❖ **Arunachal Pradesh:** Pashighat 41;
- ❖ **Manipur:** Imphal 39;
- ❖ **Vidarbha:** Akola 37;
- ❖ **Konkan:** Devgad (Sindhudurg) 35, Alibag (Raigarh) 33, Dapoli (Ratnagiri) 31;
- ❖ **Marathwada:** Latur 33, Dharashiv 31

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

**Weather forecast over Delhi/NCR during 28<sup>th</sup> to 31<sup>st</sup> March 2026****Past Weather:**

There has been fall in minimum temperatures up to 1 - 2°C and fall in maximum temperatures up to 1 - 3°C during past 24 hours over Delhi. The maximum temperatures were in the range of 31-33°C and the minimum temperatures are in the range 17-19°C respectively during past 24 hours over Delhi. The minimum temperatures are normal (-1.5°C to 1.5°C) over most parts of Delhi. The maximum 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 parts of Delhi. Partly cloudy sky with sustained surface wind speed of 20 kmph from the west direction prevailed during the past 24 hours. During past 24 hours, very light rain/drizzle observed at many places over Delhi. Partly cloudy sky with surface winds of 10 kmph from the southwest direction prevailed over the region in the forenoon today.

**Weather Forecast:**

**28.03.2026:** Partly cloudy sky. The maximum temperatures over Delhi are likely to be in the range of 32°C to 34°C. The maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed reaching up to 16 kmph during the afternoon hours. The wind speed will gradually decrease becoming less than 12 kmph from the southeast direction during evening and night.

**29.03.2026:** Generally cloudy sky. A spell of very light to light rain accompanied with accompanied with thunderstorm/lightning and strong surface wind speed 30-40 kmph gusting to 50 kmph during morning to forenoon. Another spell of very light to light rain accompanied with thunderstorm/lightning and strong surface wind speed 20-30 kmph gusting to 40 kmph during afternoon to evening. The maximum and minimum temperatures over Delhi are likely to be in the range of 30°C to 32°C and 20°C to 22°C respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at many places over Delhi, 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 southeast direction with wind speed reaching up to 10 kmph during the morning hours. The wind speed will increase becoming up to 12 kmph from the southeast direction during the afternoon. The wind speed will gradually decrease becoming less than 10 kmph from the east direction during evening and night.

**30.03.2026:** Generally cloudy sky. Possibility of very light to light rain accompanied with thunderstorm/lightning during afternoon/evening. The maximum and minimum temperatures over Delhi are likely to be in the range of 31°C to 33°C and 20°C to 22°C respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at many places over Delhi 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 east direction with associated calm wind reaching up to 05 kmph during the morning hours. The wind speed will increase becoming up to 16 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.

**31.03.2026:** Generally cloudy sky. Possibility of very light rain/drizzle. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 29°C to 31°C and 19°C to 21°C respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) and the maximum temperature will be below normal (-1.6°C to -3.0°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed reaching up to 10 kmph during the morning hours. The wind speed will increase becoming up to 20 kmph from the north direction in the afternoon. The wind speed will gradually decrease becoming less than 14 kmph from the north direction during evening and night.

**Impact expected and Action Suggested due to thunderstorm with lightning/gusty winds:**

- Be cautious and take precautionary measures, though there is the likelihood of thunderstorms/lightning and gusty winds (speed 20 – 30 kmph) temporarily reaching 40 kmph during thunderstorms with dust rising surface winds.
- Breaking of tree branches, uprooting of large avenue trees, Large dead limbs blown from trees, Damage to standing crops, Minor to major damage to power and communication lines due to breaking of branches, Partial damage to vulnerable structures due to strong winds, Loose objects may fly.
- 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 and action suggested due to isolated thunderstorm with lightning/squally winds & Hailstorm over**

- ❖ **Isolated hailstorm activity** also likely over Jammu-Kashmir and West Rajasthan on 29<sup>th</sup>; Himachal Pradesh, Punjab and Haryana Chandigarh & Delhi on 29<sup>th</sup> & 30<sup>th</sup>; Uttarakhand and East Rajasthan on 30<sup>th</sup>; West Bengal & Sikkim, Bihar, Jharkhand and Odisha on 28<sup>th</sup> March; West Madhya Pradesh and Vidarbha on 30<sup>th</sup>; Madhya Maharashtra and Marathawada on 30<sup>th</sup> & 31<sup>st</sup> March.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph) likely** over Sub-Himalayan West Bengal & Sikkim and Bihar on 28<sup>th</sup> & 31<sup>st</sup>; Gangetic West Bengal, Jharkhand and Odisha on 28<sup>th</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 rainfall/snowfall over**

- ❖ **Isolated heavy rainfall/snowfall** likely over Kashmir valley on 30<sup>th</sup> March.
- ❖ **Isolated heavy rainfall** likely over Arunachal Pradesh on 28<sup>th</sup>, 29<sup>th</sup> & during 31<sup>st</sup> March – 03<sup>rd</sup> April; Assam & Meghalaya on 28<sup>th</sup>, 29<sup>th</sup>, 31<sup>st</sup> March and 01<sup>st</sup> April; Mizoram on 29<sup>th</sup> & Tripura 28<sup>th</sup> & 29<sup>th</sup> and Sub-Himalayan West Bengal & Sikkim on 28<sup>th</sup> & 31<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 **Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, North West Rajasthan, West Bengal, Bihar, Odisha, and Jharkhand**. Undertake harvesting of mature crops immediately and shift them to safer places.
- In **Madhya Maharashtra, Marathwada and Vidarbha**, harvest mature wheat, sorghum, safflower, chickpea, maize, linseed, fruits and vegetables and keep the harvested produce in safe places.
- In **Uttarakhand**, harvest matured mustard, rapeseed, lentil & pea and keep the harvested produce to safe places.

### Agromet advisories for likely impact of Heavy Rainfall

- In **Sub Himalayan West Bengal**, ensure proper drainage channel, and drain out excess water from fields of rice, maize, other standing crops, vegetables and orchard. Shift the harvested produce to safe places. Cover the nursery of cucurbits and Dalle khorsani with polyethylene sheets or agro-nets.
- In **Arunachal Pradesh**, undertake harvesting of cabbage, pea, mustard and late-maturing paddy varieties and digging of potatoes. Shift the harvested produce to safe places. Maintain proper drainage channels in the fields of rice, maize, other standing crops, vegetables and orchards.
- In **Assam**, drain out excess rainwater from the standing crop fields.
- In **Meghalaya**, ensure proper drainage in summer vegetable crops. Carry out staking and propping of plantation crops and protect young seedlings from heavy rainfall. Keep the harvested pods of garden peas in safer place immediately.
- In **Tripura**, make necessary arrangements to drain out excess water from the low lying areas to prevent water logging.
- In **Manipur**, harvest mature rapeseed/ mustard, field pea, lentil and onion before rain. Shift the harvested produce to an airy shed to protect it from rain, and sun-dry it when sunshine is available. Make necessary arrangements to drain out excess water from standing crops, vegetables & orchards to avoid water stagnation.
- In **Jammu & Kashmir**, make necessary arrangements to drain out excess rain water from wheat, gram, mustard and vegetable 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

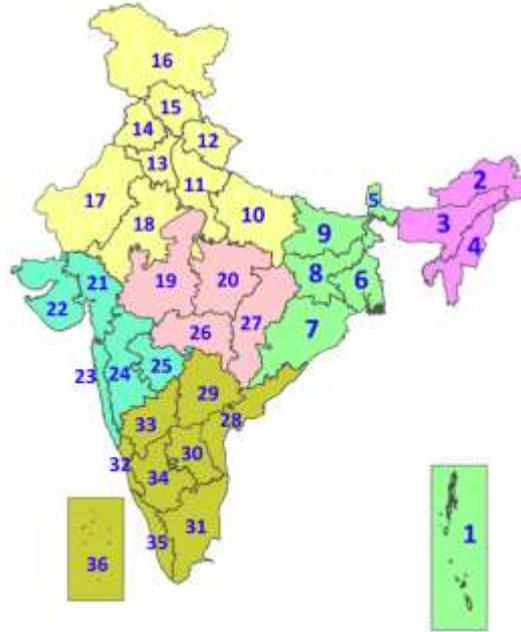
- Keep the animals inside the shed during Heavy Rainfall/Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.

### 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, Coastal Maharashtra (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>	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
<b>Dust/Sand Storm</b>	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
<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 62-67 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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