



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 16th March 2026
Time of Issue: 1400 hours IST

- Subject: (i) Isolated heavy rainfall likely over Arunachal Pradesh, Assam & Meghalaya on 16th & 17th and over Nagaland, Manipur, Mizoram and Tripura and Sub Himalayan West Bengal on 16th March.**
(ii) Isolated thunderstorm, lightning & gusty winds along with hailstorm likely to continue over Western Himalayan Region and North Punjab on 16th March.
(iii) Isolated thunderstorm activities accompanied with Gusty winds also likely over East India during 16th to 19th along with hail storm on 16 March, 2026.
(iv) A fresh Western Disturbance likely to cause Rain/Thunderstorm, lightning & gusty winds along with hailstorm likely over Western Himalayan Region and adjoining plains during 18th-20th March.
(v) Because of large scale thunderstorm activity, 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 16th March, 2026:

- ❖ **Heavy to very heavy rainfall (7-20 cm)** has been recorded at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya.
- ❖ **Heavy rainfall (7-11 cm)** has been recorded at isolated places over Arunachal Pradesh and Mizoram.
- ❖ **Hailstorm** reported at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh, West Bengal, Odisha, Jharkhand, Uttarakhand, Punjab, Haryana and West Uttar Pradesh.
- ❖ **Thundersquall** speed reaching 50-65 kmph occurred at isolated places over West Bengal (Kolkata, Malda).

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

- ❖ **Maximum/day temperatures** were in the range (38°C -41°C) over some parts Central Tamil Nadu, North Interior Odisha, Chhattisgarh, North interior Maharashtra and Gujarat, at isolated places over southeast Rajasthan. **Yesterday, the highest Maximum Temperature 40.6°C was reported at AMRAVATI (MAHARASHTRA).**
- ❖ **Maximum Temperatures/day temperatures** were appreciably above normal (3.1°C to 5.0°C) at few places over Madhya Pradesh and adjoining southeast Uttar Pradesh, Bihar and Jharkhand and at isolated Rajasthan, north Gujarat State, Vidarbha and near normal over rest parts of the country except over western Himalayan Region and northeast India where it was (-3°C to -8°C).
- ❖ **Minimum/night temperatures** were in the range of 14–18°C over Haryana, Chandigarh, Delhi, Rajasthan, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Sikkim, Assam & Meghalaya, Tripura & Kerala & Mahe. They were in the range of 18–22°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 Bihar; appreciably above normal (3.1°C to 5.0°C) over east Uttar Pradesh, east Madhya Pradesh, Gujarat Region, Chhattisgarh, Vidarbha, above normal (1.6°C to 3.0°C) over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Haryana, Delhi, Punjab, East Rajasthan, west Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Telangana, North Interior Karnataka, Kerala & Mahe, Andaman & Nicobar Islands, Jharkhand, Meghalaya, West Bengal and near normal over rest parts of the country.

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

- ❖ The **Western Disturbance** as an upper air **cyclonic circulation** lies over north Punjab & neighbourhood in lower tropospheric levels with the trough aloft middle and upper-level westerlies run roughly along Long. 71°E to the north of Lat. 30°N.
- ❖ An upper air **cyclonic circulation** lies over Haryana & neighbourhood and another over Northwest Rajasthan in lower tropospheric levels. A **trough** runs from Northwest Rajasthan to Southwest Uttar Pradesh in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over Northeast Assam & adjoining Arunachal Pradesh in lower tropospheric levels.
- ❖ An upper Air **cyclonic circulation** lies over North coastal Tamil Nadu and **circulation** another over Southeast Arabian Sea & adjoining Lakshadweep area in lower tropospheric levels.
- ❖ Another **trough** runs from North Interior Karnataka to Comorian area in lower tropospheric levels.
- ❖ **Subtropical westerly Jet Stream** with core winds of the order of 105 knots at 12.6 km above mean sea level prevails over East India.
- ❖ A fresh **Western Disturbance** is likely to affect northwest India from night of 17th March, 2026.

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

Northwest India:

- ❖ Scattered to Fairly widespread to widespread light to moderate rainfall/snowfall accompanied with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 kmph) likely to continue over Western Himalayan region on 16th & 17th March. Another fresh wet spell with Fairly widespread to widespread light to moderate rainfall/snowfall likely with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 kmph) during 18th-20th March and reduction in intensity thereafter. **Isolated heavy rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh on 19th and Uttarakhand on 20th March.**
- ❖ Isolated to Scattered light to moderate rainfall accompanied with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 kmph) likely to continue over the plains of Northwest India on 16th March. Another fresh wet spell with Isolated to Scattered light to moderate rainfall accompanied with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 kmph) likely during 19th-21st March.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Uttarakhand on 19th & 20th March.
- ❖ Isolated **Hailstorm** activity likely over Himachal Pradesh on 16th, 18th & 19th; Uttarakhand on 16th, 19th & 20th; Punjab on 16th; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 18th March.

Northeast India:

- ❖ **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm & lightning** likely over Northeast India during next 7 days; with **gusty winds speed reaching (30-50 kmph)** over Arunachal Pradesh and Assam & Meghalaya on 16th & 17th; Nagaland, Manipur, Mizoram & Tripura during 16th-18th March.
- ❖ Isolated **heavy rainfall** very likely over Arunachal Pradesh & Assam & Meghalaya on 16th & 17th March and Nagaland, Manipur, Mizoram & Tripura on 16th March.
- ❖ Isolated **Hailstorm** activity likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 16th March.

East & Central India:

- ❖ **Scattered to fairly widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over West Bengal & Sikkim 16th -21st March. Isolated **heavy rainfall** very likely over Sub-Himalayan West Bengal & Sikkim on 16th March.
- ❖ **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Madhya Pradesh during 18th -20th; Vidarbha, Odisha, Jharkhand & Chhattisgarh during 16th -20th; Bihar on 16th, 17th and during 20th -22nd March. **Thunderstorm, lightning & squally winds speed reaching (50-60 gusting to 70 kmph) with hailstorm** likely over Sub-Himalayan West Bengal & Sikkim on 20th, Gangetic West Bengal on 16th & 20th; Odisha & Jharkhand on 16th March.
- ❖ Isolated **Hailstorm** activity likely over East Madhya Pradesh on 19th; Vidarbha on 18th; Chhattisgarh on 18th & 19th; West Bengal & Sikkim, Odisha, Jharkhand and Bihar on 16th 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, Telangana, Rayalaseema and Karnataka during 16th-20th; Kerala & Mahe during 16th -18th; Tamil Nadu, Puducherry & Karaikal during 17th -19th March.

West India:

- ❖ **Isolated** light/moderate rainfall with **thunderstorm & lightning & gusty winds speed reaching (30-50 kmph)** likely over Madhya Maharashtra, Marathwada during 16th -19th Gujarat State on 18th & 19th and with thunderstorm & lightning over Konkan & Goa on 18th & 19th March.

Forecast of maximum/day temperatures:

- ❖ Gradual rise in maximum temperatures by 3-5°C likely over Northwest India during next 3 days; gradual fall by 4-7°C during subsequent 2 days & no significant change thereafter.
- ❖ No significant change in maximum temperatures likely over Madhya Pradesh during next 2 days; gradual fall by 3-5°C during subsequent 2 days & no significant change thereafter.
- ❖ Gradual fall in maximum temperature by 3-5°C likely over Vidarbha & Chhattisgarh during next 5 days and no significant change during subsequent 2 days.
- ❖ Gradual fall in maximum temperature by 2-3°C likely over Gujarat during next 3 days and no significant change during subsequent 4 days.
- ❖ Gradual fall by 2-3°C in maximum temperatures likely over Maharashtra during next 4 days and no significant change during subsequent 3 days.
- ❖ No significant change in maximum temperatures likely over South Peninsular India during next 2 days and gradual fall by 2-3°C during subsequent 5 days.

Fisherman Warning:

Fishermen are advised not to venture into the following areas:

- ❖ **Bay of Bengal:** Along and off North Odisha & West Bengal coasts and adjoining sea area on 16th March.
- ❖ **Arabian Sea:** No warning.

Weather conditions and forecast over Delhi/NCR during 16th-19th 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:** Sankos Tea Estate (dist Alipurduar) 16; Kumargram Tea Estate (dist Alipurduar) 13; Bhutanghat (dist Alipurduar), Newlands Tea Garden (dist Alipurduar) 12 Each;
- ❖ **Assam & Meghalaya:** Resubelpara (dist North Garo Hills), Lakhipur ARG (dist Cachar) 13 Each; Cherrapunji (dist East Khasi Hills), Cherrapunji(rkm) (dist East Khasi Hills) 12 Each; Manash Nh Xing (dist Barpeta), Silchar (dist Cachar) 11 Each; Aie Nh Xing (dist Bongaigaon) 10; Williamnagar (dist East Garo Hills) 8; Barpeta (dist Barpeta) 7;
- ❖ **Mizoram:** Kolasib ARG (dist Kolasib) 8;
- ❖ **Arunachal Pradesh:** Tezu (dist Lohit) 7.

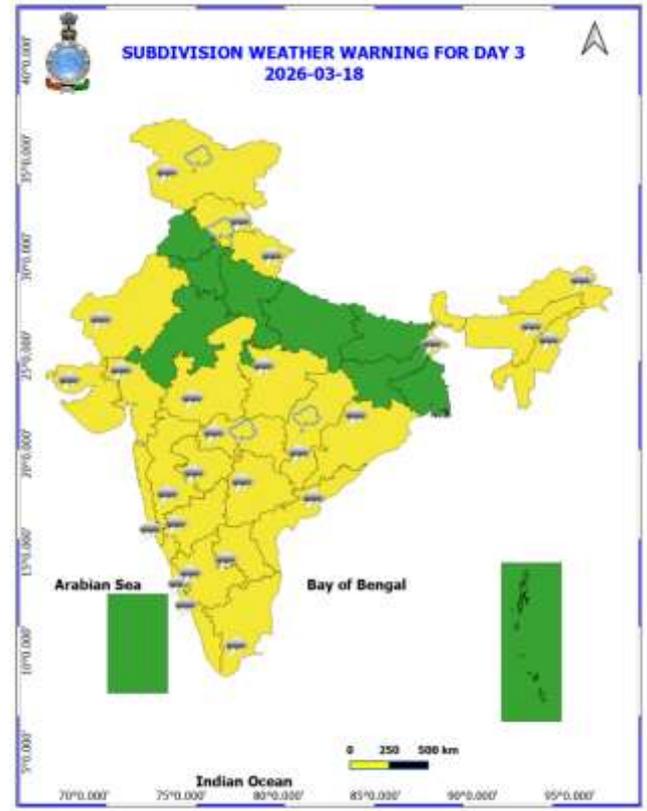
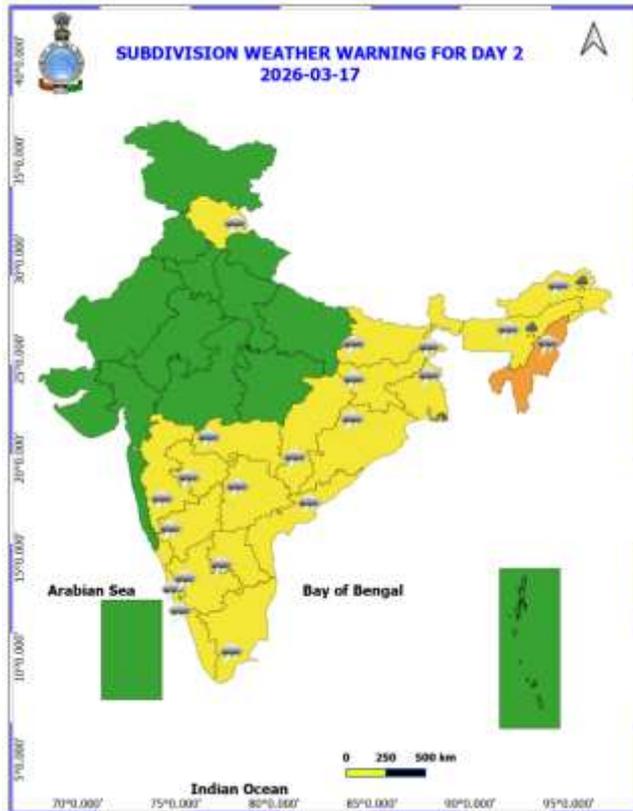
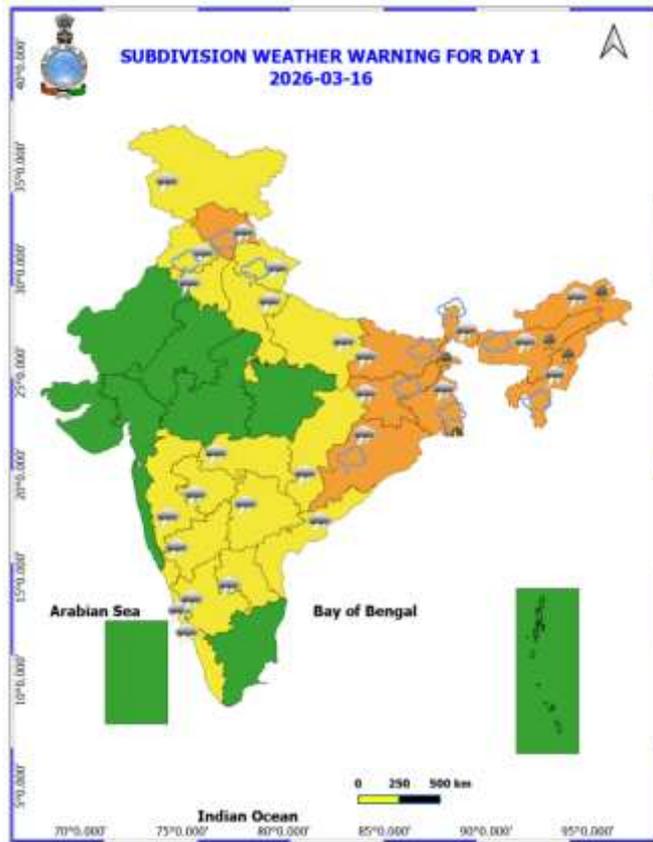
Gusty winds (in kmph) (from 0830 hours IST of yesterday to 0830 hours IST of today):

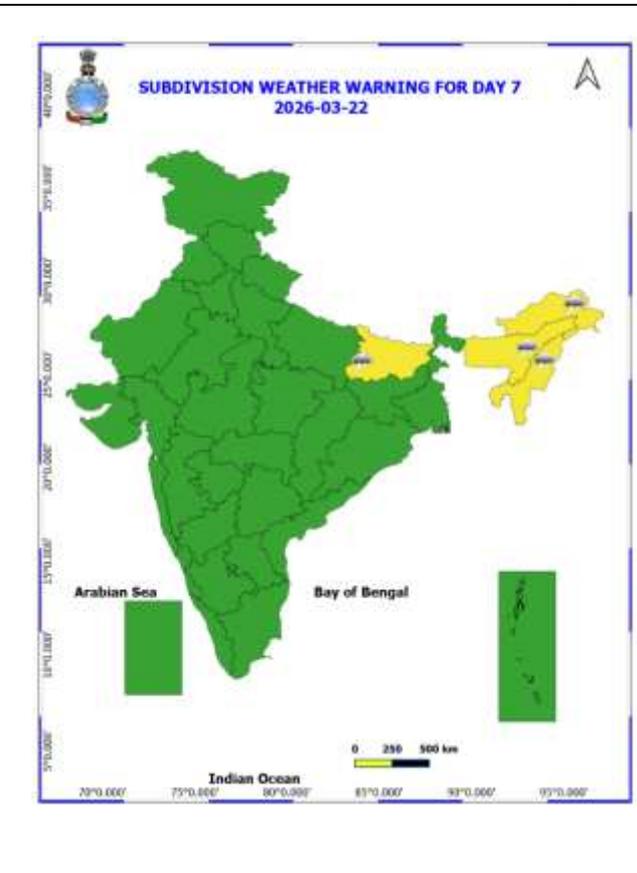
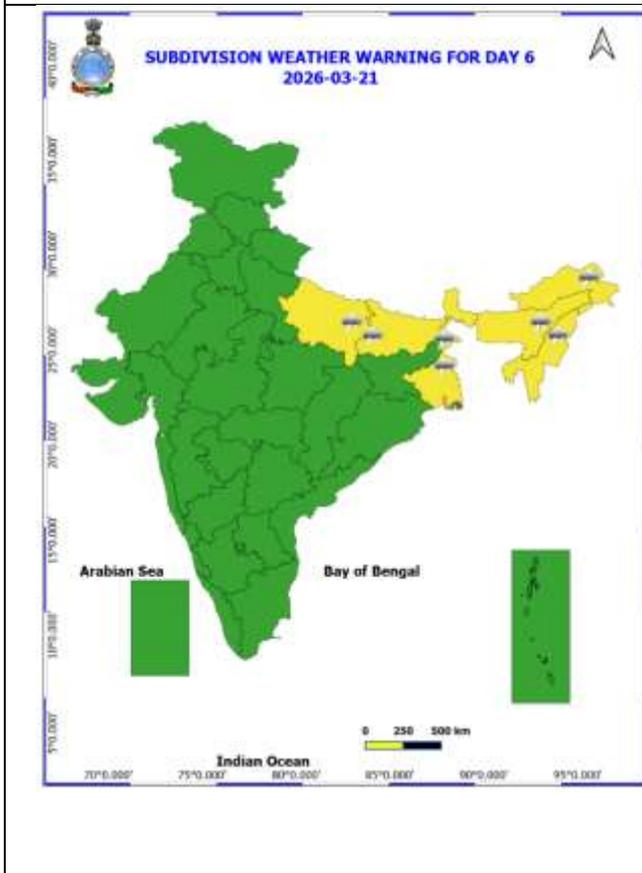
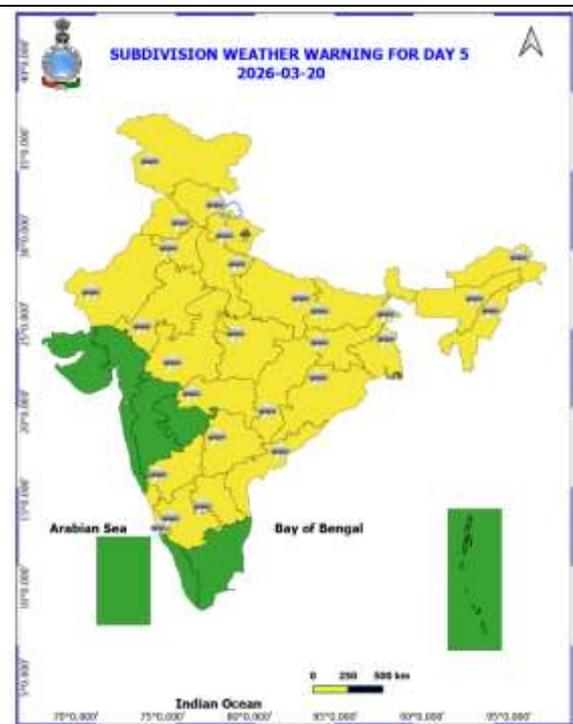
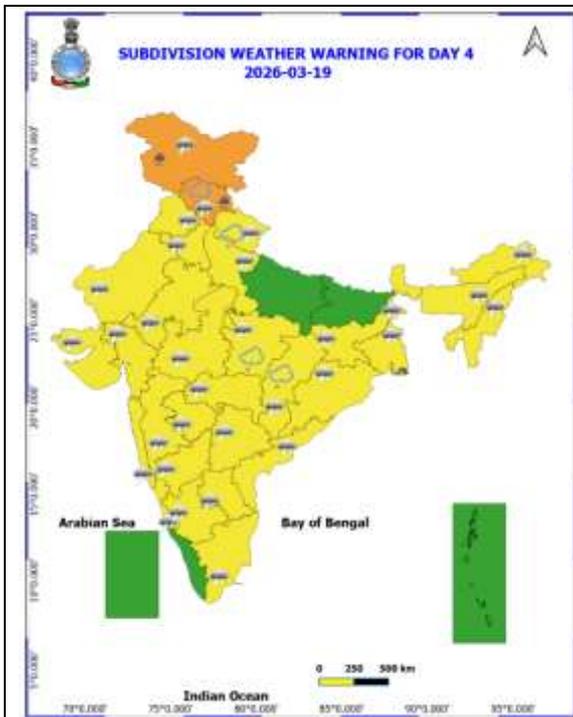
- ❖ **Assam & Meghalaya:** VCBC RANI 83;
- ❖ **Jammu-Kashmir:** Baramula 74;
- ❖ **Himachal Pradesh:** Neri 70, Seobagh 43;
- ❖ **Uttarakhand:** Champawat 70, Mukteshwar 68, Rani_Chawri 68;
- ❖ **Sub-Himalaya West Bengal & Sikkim:** Malda 68; Balurghat 43; Darjeeling 41; Pundibari 37;
- ❖ **Nagaland, Manipur, Mizoram & Tripura:** Ghilatali 67, Ashapara 43, Kamjong 56, Khoupum 54;
- ❖ **Gangetic West Bengal:** Durgapur 63; Barrackpore 59; Alipore 55; Dum Dum, Burdwan 50; Amta 48; Berhampore, Digha 44; Uluberia, Asansol 43; Purulia, Gangasagar 41; Kalyani, Nimpith 39; Sonarpur 37; Diamond Harbour 35; Agarpara 33;
- ❖ **Arunachal Pradesh:** Bomdila 59;

- ❖ **Punjab:** Sangrur & Ferozpur 57; Bathinda 48; Mohali 43; Pathankot 39;
- ❖ **Haryana:** Uchani 56; Ujha & Karnal 48; Panchkula & Pandu Pindara 44; Gurugram 39;
- ❖ **Odisha:** Janhukuda 56;
- ❖ **West Uttar Pradesh:** Saharanpur & Shahjahanpur 52, Bareilly 44, Moradabad, Bijnore & Kasganj 41 Each, Agra, Bulandshahar & Amoroha 39 Each;
- ❖ **East Uttar Pradesh:** Balramppur Aws 52, Sitapur 41, Integral University (Lucknow) Aws 39, Lucknow 33;
- ❖ **West Madhya Pradesh:** Sehore 48;
- ❖ **Jharkhand:** Netarhat 48;
- ❖ **Tamil Nadu:** Natham (Dindigul) 46;
- ❖ **Chhattisgarh:** Korba 43, Janjgir 39, Koriya 33;
- ❖ **Andaman & Nicobar Islands:** Sri Vijayapuram 36;
- ❖ **Gujarat Region:** Dantivada(Banaskantha), Dholera (Ahmedabad) 35;
- ❖ **Saurashtra & Kutch:** khavda(Kutch) 35;
- ❖ **Madhya Maharashtra:** Vilholi (Nashik) 33, Shivajinagar (Pune) 33;
- ❖ **Konkan & Goa:** Karjat (Raigad) 31;
- ❖ **Marathwada:** Sagroli (Nanded) 31;
- ❖ **East Madhya Pradesh:** Akola 30

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

Past Weather:

There has been a fall of 3-5°C in the minimum temperatures and 1-2°C in the maximum temperatures over Delhi in the past 24 hours. The maximum and minimum temperatures were in the range of 28-30°C and 16-17°C, respectively. The minimum temperatures are above normal (1.6°C to 3.0°C) at many places and normal (-1.5°C to 1.5°C) over the remaining part of Delhi. The maximum temperatures were appreciably below normal (-3.1°C to -5.0°C) at most places and normal (-1.5°C to 1.5°C) over the remaining parts of Delhi. Generally cloudy sky with sustained surface wind (speed 10-20 kmph) from the east-northeast direction, gusting up to 37 kmph, prevailed during the past 24 hours. Two spells of very light to light rainfall are recorded over Delhi. Partly cloudy sky. The predominant surface winds are from the east direction with a wind speed of 20 kmph, gusting to 30 kmph in the forenoon from the northeast direction over the region today.

Weather Forecast:

16.03.2026: Partly cloudy sky. Strong surface wind speed 20-30 kmph during the daytime. The maximum temperatures over Delhi are likely to be in the range of 31°C to 33°C. The maximum temperature will be above normal (1.5°C or 3.0°C) at most places and appreciably above normal (3.1°C to 5.0°C) at isolated places over Delhi. The predominant surface wind is likely to be from the east direction with wind speed reaching up to 25 kmph during the afternoon hours. The wind speed will gradually decrease, becoming less than 16 kmph from the north-northwest direction during the evening and night.

17.03.2026: Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 32°C to 34°C and 14°C to 16°C, respectively. The minimum and maximum temperatures will be near normal at most places across Delhi. The predominant surface wind is likely to be from the northeast direction with wind reaching up to 10 kmph during the morning hours. The wind speed will continue to be 10 kmph from the north direction during the afternoon. The wind speed will gradually decrease becoming less than 06 kmph from the north direction during evening and night.

18.03.2026: Generally cloudy sky. A spell of very light rain/drizzle accompanied by thunderstorm/lightning and strong surface wind speed 20-30 kmph gusting 40 kmph during evening/night. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 32°C to 34°C and 17°C to 19°C, respectively. The minimum and maximum temperatures will be near normal at most places across Delhi. The predominant surface wind is likely to be from the northeast direction with wind speed reaching up to 10 kmph during the morning hours. The wind speed will increase up to 15 kmph from the northeast direction in the afternoon. The wind speed will gradually decrease, reaching up to 10 kmph from the northeast direction during the evening and night.

19.03.2026: Generally cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 30°C to 32°C and 17°C to 19°C, respectively. The minimum and maximum temperatures will be near normal at most places across Delhi. The predominant surface wind is likely to be from the northeast direction with wind speed less than 05 kmph during the morning hours. The wind speed will increase up to 10 kmph from the east direction in the afternoon. The wind speed will gradually decrease, reaching less than 05 kmph from the northeast direction during the evening and night.

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

- ❖ Isolated **Hailstorm** activity likely over Himachal Pradesh on 16th, 18th & 19th; Uttarakhand on 16th, 19th & 20th; Punjab on 16th; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 18th; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 16th; East Madhya Pradesh on 19th; Vidarbha on 18th; Chhattisgarh on 18th & 19th; West Bengal & Sikkim, Odisha, Jharkhand and Bihar on 16th March.
- ❖ **Thundersquall** (wind speed reaching 50-60 kmph gusting to 70 kmph) very likely at isolated places over Uttarakhand on 19th & 20th; Sub-Himalayan West Bengal & Sikkim on 20th, Gangetic West Bengal on 16th & 20th; Odisha & Jharkhand on 16th 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.

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 Himachal Pradesh, Uttarakhand, Punjab, Odisha, West Bengal, Bihar, Jharkhand, Assam, Meghalaya, Manipur and Mizoram
- Agromet advisories for likely impact of Heavy Rainfall
- In Arunachal Pradesh, postpone harvesting of cabbage, pea, mustard and late-maturing paddy varieties and digging of potatoes. Shift the harvested produce to safe places. Drain out excess rainwater from the standing crop fields. Nursery for chilli, tomato, and other vegetables may be prepared under covered shelters or poly houses to protect seedlings from rain. Open nurseries should be immediately covered with polythene sheets or sack cloths to protect seedlings from rain.
- 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 Manipur, harvest mature rapeseed, mustard, lentil during clear weather. Avoid water stagnation in the crop field due to rains.
- In Sub-Himalayan West Bengal, drain out excess rainwater from the standing crop fields. Cover the nursery of cucurbits and Dalle Korsani with polyethylene sheets or agro-net to protect the seedlings from adverse weather conditions.
- Agromet advisories for likely impact of Thunderstorm / Gusty 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.
- 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.

Livestock / Poultry

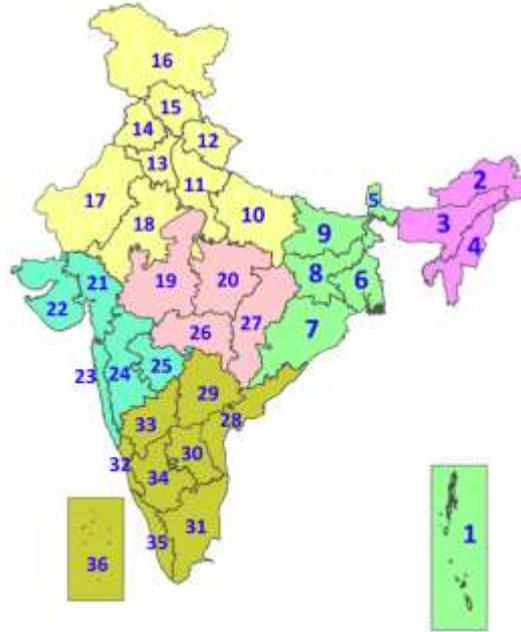
- Keep the animals inside the shed during Heavy Rainfall/Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.
- Provide clean, hygienic and plenty of drinking water to animals.

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 62-67 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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