



Government of India
Ministry of Earth Sciences
India Meteorological Department



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

Subject:(i) Heatwave conditions and hot & humid weather likely to prevail over isolated pockets of Central, East and Peninsular India during the week.
(ii) Isolated Heavy rainfall with lightning and thunderstorm very likely over Arunachal Pradesh during 18th - 20th; over Assam & Meghalaya during 16th - 19th and Sikkim on 18th April.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 16th April, 2026:

- ❖ **Thunderstorm accompanied with Squally/Gusty winds with speed 50-70 kmph** prevailed at isolated places over Tamil Nadu, Nagaland, Manipur, Mizoram & Tripura, Odisha, East Madhya Pradesh, Assam & Meghalaya; **with speed 30-50 kmph** prevailed at isolated places over Coastal Maharashtra, Himachal Pradesh, Gujarat State, Marathwada, Bihar, West Madhya Pradesh, Madhya Maharashtra, Arunachal Pradesh and Gangetic West Bengal.

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

- ❖ **Maximum/day temperatures** were in the range of 38-44°C at many places over the country except Western Himalayan region, north Punjab, Sub-Himalayan West Bengal & Sikkim and Northeast India, where these were less than 38°C. **Yesterday, the highest Maximum temperature of temperature of 44.2°C was reported at Akola (Maharashtra).**
- ❖ **Maximum/day temperatures** were markedly above normal (> 5.1°C) over Jammu-Kashmir; appreciably above normal (3.1°C to 5.0°C) over Himachal Pradesh, Uttarakhand, Delhi, Rajasthan, East Madhya Pradesh, Vidarbha, Rayalaseema, Tamil Nadu, Puducherry & Karaikal; appreciably below normal (-5.0°C to -3.1°C) over Assam; below normal (-3.0°C to -1.6°C) over Bihar, West Bengal and near normal over rest parts of the country.
- ❖ **Minimum/night temperatures were in the range of 13-19°C** over Jammu-Kashmir, Himachal Pradesh, Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya. They were in the range of **20-26°C** over remaining parts of the plains of the country. **Today, the lowest minimum temperature of 14.0 °C was observed at Sarsawa IAF (West Uttar Pradesh) over the plains of India.**
- ❖ **Minimum/night Temperature** were appreciably above normal (3.1°C to 5.0°C) over West Rajasthan and Gangetic West Bengal; appreciably below normal (-5.0°C to -3.1°C) over West Uttar Pradesh; below normal (-3.0°C to -1.6°C) over Jammu-Kashmir, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Assam & Meghalaya, Saurashtra & Kutch, Marathawada and near normal over rest parts of the country.

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

- ❖ The **Western Disturbance** as a trough in middle & upper-level subtropical westerlies runs roughly along Long. 58°E to the north of Lat. 32°N.
- ❖ An **upper air cyclonic circulation** lies over north Haryana & neighbourhood in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over northeast Madhya Pradesh & neighbourhood in lower tropospheric levels.
- ❖ A **north-south trough** runs from the cyclonic circulation over northeast Madhya Pradesh to gulf of Mannar in lower tropospheric levels
- ❖ An **east-west trough** runs from southeast Rajasthan to Manipur in lower tropospheric levels.
- ❖ The **Anti-cyclonic circulation** over Karnataka & adjoining Maharashtra between lower and middle tropospheric levels.

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

Northeast India:

- ❖ **Scattered to Fairly widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds (speed reaching 30-50 kmph)** likely over Arunachal Pradesh during 18th-20th, Assam & Meghalaya during 16th-20th; Nagaland, Manipur, Mizoram & Tripura on 16th April; with **lightning** over Arunachal Pradesh during 16th & 17th; Nagaland, Manipur, Mizoram & Tripura during 17th-20th April.
- ❖ **Isolated heavy rainfall** likely over Arunachal Pradesh during 18th -20th; Assam & Meghalaya during 16th -19th April.
- ❖ Isolated **Hailstorm activity** likely over Mizoram on 16th April.

Northwest India:

- ❖ **Scattered to Fairly widespread** light to moderate rainfall/snowfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 16th-19th and **Isolated to Scattered** over Himachal Pradesh, Uttarakhand during 17th-19th April; **Isolated** light rainfall with **thunderstorm, lightning** over Punjab, Haryana Chandigarh & Delhi, Rajasthan on 17th April.
- ❖ Isolated **Hailstorm activity** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 17th April.

East India:

- ❖ **Isolated to Scattered** light rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Sub-Himalayan West Bengal & Sikkim during 16th- 19th April; Jharkhand on 16th; Gangetic West Bengal on 17th; Bihar on 18th and Odisha during 16th-21st April.
- ❖ **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 18th April.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Gangetic West Bengal on 16th April.

Central India:

- ❖ **Isolated** light rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over West Madhya Pradesh on 19th & 20th April; **with lightning** over Vidarbha & Chhattisgarh on 20th April.

South Peninsular India:

- ❖ **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over Coastal Andhra Pradesh & Yanam on 16th & 17th; Interior Karnataka on 19th & 20th; April; **with lightning** over Coastal Karnataka during 16th -20th, North Interior Karnataka on 17th & 18th; South Interior Karnataka during 16th -18th Coastal Andhra Pradesh & Yanam during 18th- 20th, Telangana on 19th & 20th, Rayalaseema on 20th April.

West India:

- ❖ **Isolated** light to moderate rainfall with **thunderstorm, lightning** likely over Madhya Maharashtra during 18th - 20th, Marathwada during 18th -21th April.

Forecast of maximum/day temperatures:

- ❖ No significant change in maximum temperatures likely over Northwest India during 16th-22nd April.
- ❖ Gradual rise in maximum temperatures by 2°C likely over Central India during 16th-19th April and gradual fall by 2-3°C on 20th & 21st and no significant change on 22nd April.
- ❖ No significant change in maximum temperatures likely over Maharashtra & Gujarat during 16th-18th April and gradual fall by 2-3°C during 19th -22nd April.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

Heat wave and Hot & Humid weather warning:

- ❖ **Heat wave conditions** very likely in isolated pockets of East Madhya Pradesh, during 16th -19th; West Madhya Pradesh, during 17th -19th; Vidarbha and Chhattisgarh during 17th -20th; Odisha on 18th & 19th; Jharkhand 19th& 20th; Marathwada, Madhya Maharashtra & North Interior Karnataka during 16th-18th; Rayalaseema on 17th & 18th April.
- ❖ **Hot & humid weather conditions** very likely to prevail in isolated pockets over Odisha during 16th-22nd; Gangetic West Bengal during 19th-22nd; Konkan & Goa on 16th & 17th; coastal areas of Gujarat State during 16th-18th; Tamil Nadu, Kerala & Mahe, Coastal Karnataka during 16th -20th; Coastal Andhra Pradesh & Yanam during 16th -19th April.

Fishermen warning:

Fishermen are advised not to venture into the following areas:

- ❖ **Bay of Bengal:** Along and off West Bengal and north Odisha coasts on 16th April 2026.
- ❖ **Arabian Sea:** No warning.

Weather conditions and forecast over Delhi/NCR during 16th-19th April, 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>

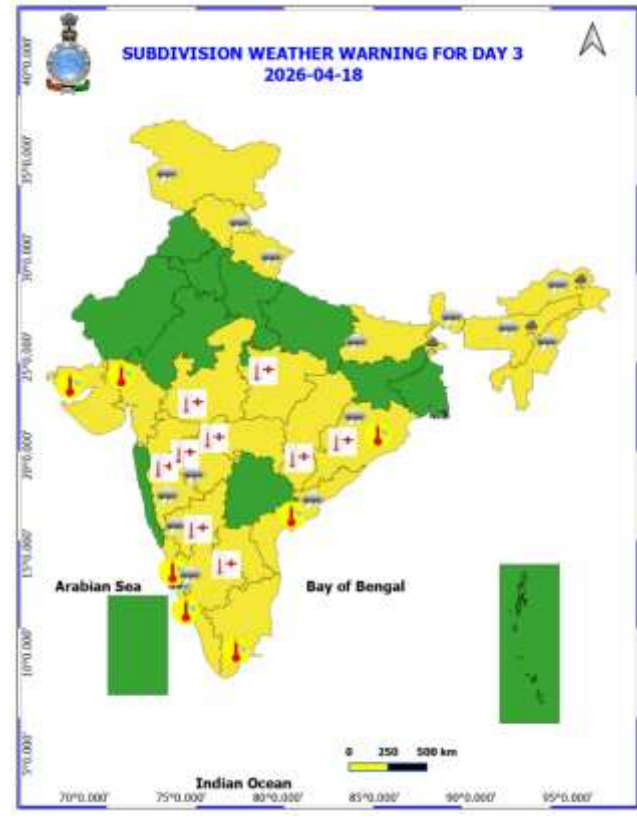
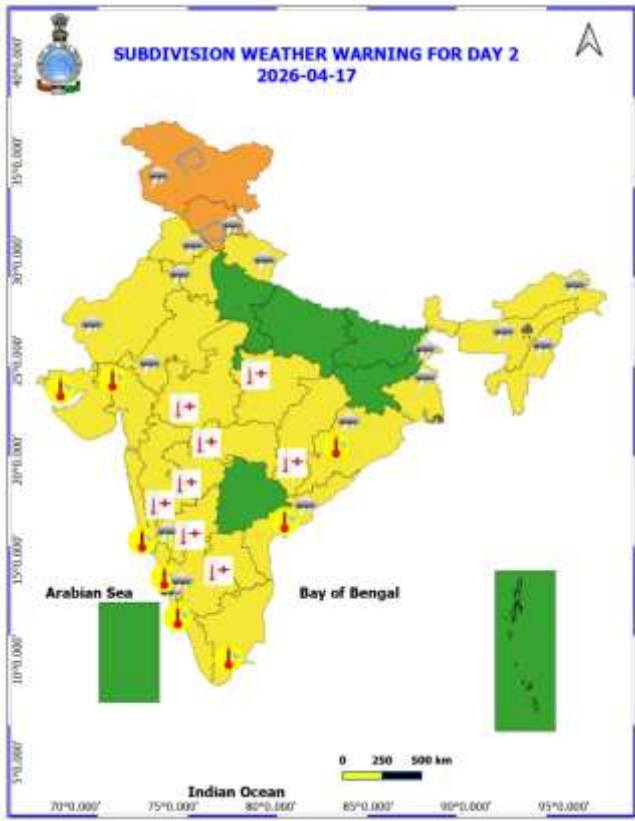
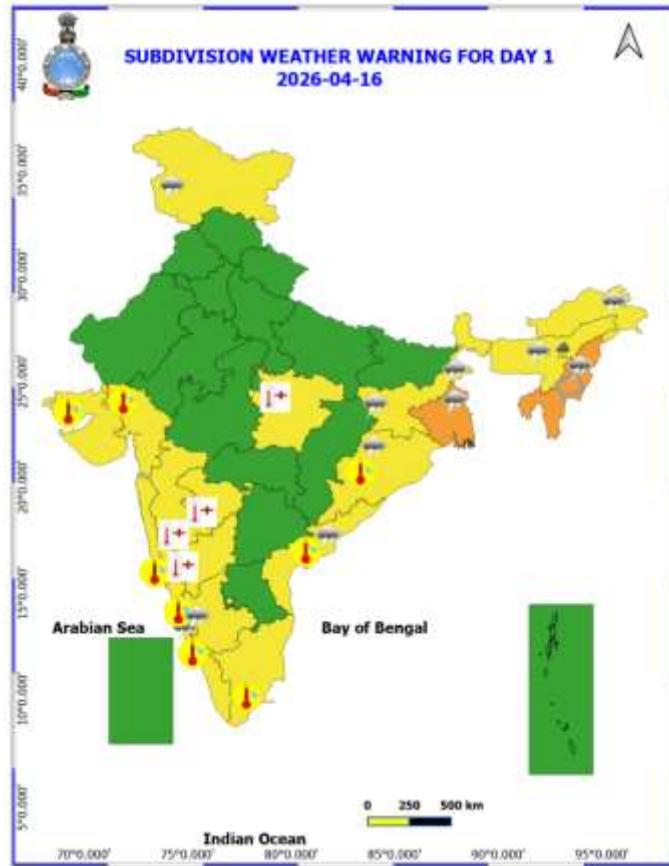
For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermenwarning.php>

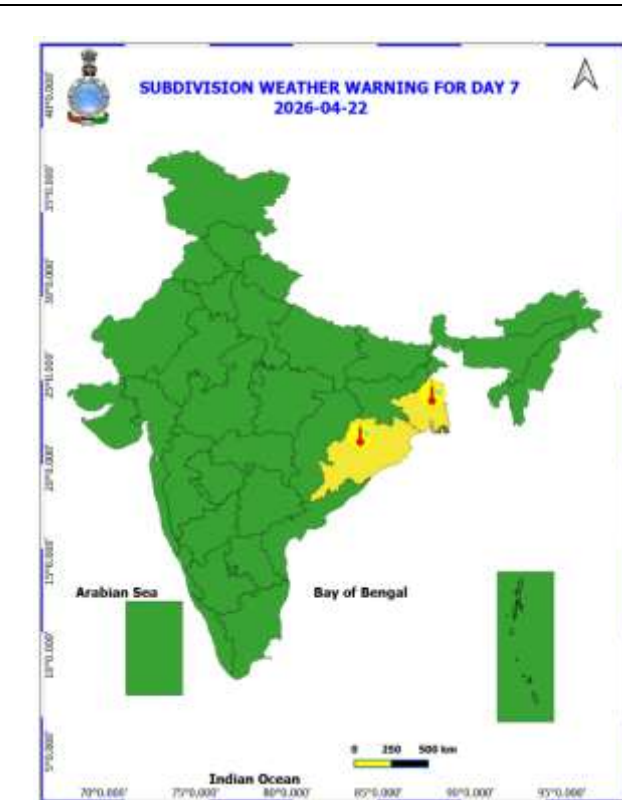
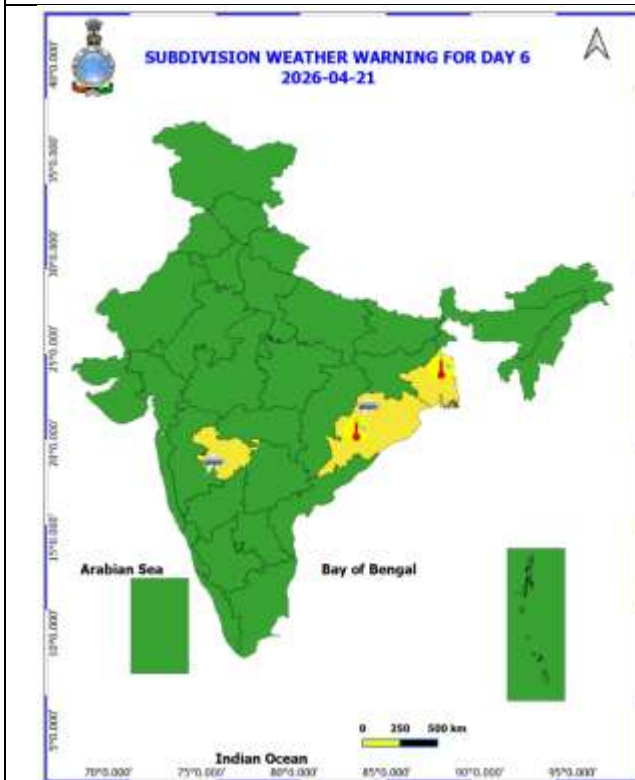
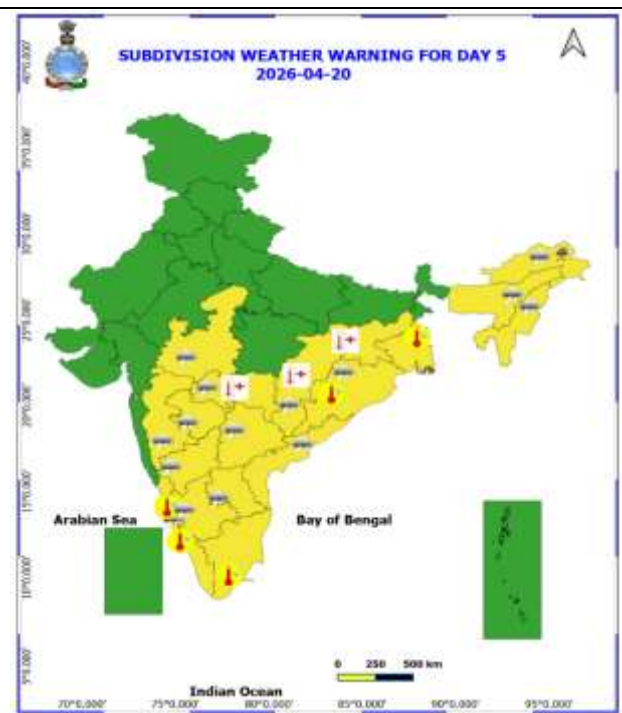
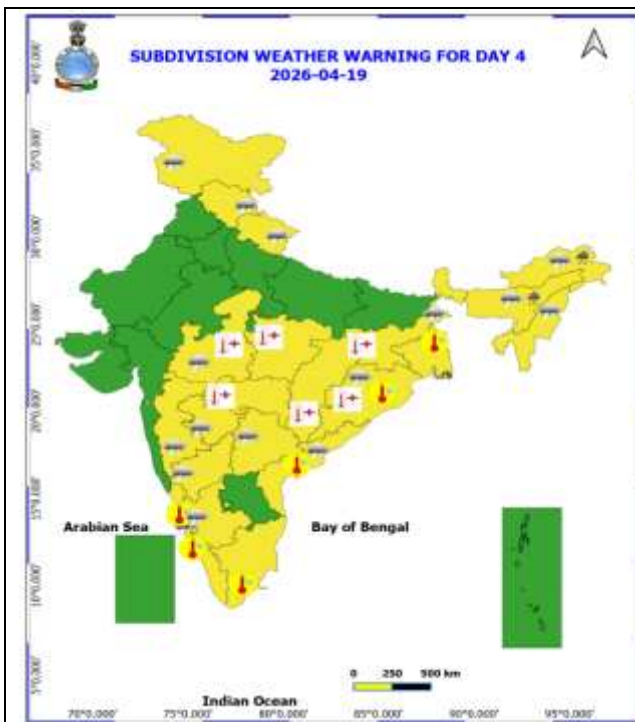
Gusty winds (in kmph) (from 0830 hours IST of yesterday to 0830 hours IST of today):

- ❖ **Assam & Meghalaya:** Gauripur 70, Manas 68, Vcbc_Rani 57, Boko 43, Guwahati 39, Barpeta 39, Down_Town_University 33, Haflong 31, Chirang 31, Haflong 31, Habang_Circle 31, Nalbari_ 31 Kmph, Jowai 37;
- ❖ **East Madhya Pradesh:** Jabalpur 59, Sagar 41, Narsinghpur 37, Shahdol 33;
- ❖ **Odisha:** Janhukuda 50;
- ❖ **Nagaland, Manipur, Mizoram & Tripura:** Lembucharra (West) 63, Gandacharra (Dhalai) 52, Taidu (Gomati) 50, Khoupum 48, Agartala Airport 46, Kamjong 41, Tujungvaichong 35, Saikul 41, Karbook (Gomatai) 37, Moreh 33;
- ❖ **Tamil Nadu:** Natham_ISRO (Dindigul) 50;
- ❖ **Gangetic West Bengal:** Alipore 45;
- ❖ **Arunachal Pradesh:** Pashighat 44, Lowertato 35;
- ❖ **Madhya Maharashtra:** Vilholi (Nashik) 44, Kalwan (Nashik) 43;
- ❖ **West Madhya Pradesh:** Sehore 43, Badwani 33, Betul,Guna, Ashok Nagar 31 each, Indore, Bhopal, Agar 30 each;
- ❖ **Bihar:** Sukhet 41;
- ❖ **Saurashtra & Kutch:** Kandla (Kutch) 37;
- ❖ **Marathawada:** Ambejogai (Beed) 31, Parbhani 31;
- ❖ **Gujarat Region:** Ahmedabad 31;
- ❖ **Himachal Pradesh:** Champawat 30;
- ❖ **Coastal Maharashtra:** Karjat (Raigad) 30, Alibag 30.

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

Weather forecast over Delhi/NCR during 16th April to 19th April 2026

Past Weather:

There has been rise in maximum temperatures up to 1°C and rise in minimum temperature up to 1-2°C during past 24 hours over Delhi. The maximum temperatures were in the range of 38-41°C and the minimum temperatures are in the range 18-22°C respectively during past 24 hours over Delhi. The minimum temperatures are appreciably below normal (-3.1°C to -5.0°C) at isolated places, below normal (-1.6°C to -3.0°C) at isolated places and normal (-1.5°C to 1.5°C) at remaining places over Delhi. The maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places and above normal (1.6°C to 3.0°C) at remaining parts of Delhi. Mainly clear sky with surface wind speeds up to 20 kmph prevailed from northwest direction over Delhi during past 24 hours. Mainly clear sky with surface wind speeds up to 10 kmph likely to prevailed from northwest direction over the region in the forenoon today.

Weather Forecast:

16.04.2026: Mainly clear sky becoming partly cloudy sky towards afternoon/evening. The maximum temperatures over Delhi are likely to be in the range of 39°C to 41°C. The maximum temperatures will be appreciably above normal (3.1°C to 5.0°C) at a few places and above normal (1.5°C to 3.0°C) at many places over Delhi. The predominant surface wind is likely to be from the northwest direction with surface wind speed reaching up to 15 kmph during the afternoon hours. The wind speed will gradually decrease becoming less than 10 kmph from the northeast direction during evening and night.

17.04.2026: Partly cloudy sky, thundery development towards afternoon/evening. The maximum and minimum temperatures over Delhi are likely to be in the range of 40°C to 42°C and 22°C to 24°C respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places, and maximum temperatures will be appreciably above normal (3.0°C to 5.1°C) at most places over Delhi. The predominant surface wind is likely to be from northeast direction with surface wind speed reaching up to 10 kmph during the morning hours. The wind speed will increase becoming less than 15 kmph from north direction during the afternoon. The wind speed will decrease becoming up to 10 kmph from the northwest direction during evening and night.

18.04.2026: Mainly clear sky becoming partly cloudy sky towards evening/night. The maximum and minimum temperatures over Delhi are likely to be in the range of 40°C to 42°C and 20°C to 22°C respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperature will be appreciably above normal (3.0°C to 5.1°C) at most places over Delhi. The predominant surface wind is likely to be from the northwest direction with wind reaching up to 10 kmph during the morning hours. The surface wind speed will increase becoming up to 15 kmph from west direction during the afternoon. The wind speed will decrease becoming up to 10 kmph from the west direction during evening and night.

19.04.2026: Mainly clear sky becoming partly cloudy sky towards evening/night. The maximum and minimum temperatures over Delhi are likely to be in the range of 40°C to 42°C and 21°C to 23°C respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperature will be appreciably above normal (3.0°C to 5.1°C) at most places over Delhi. The predominant surface wind is likely to be from the west direction with wind reaching up to 15 kmph during the morning hours. The surface wind speed will be increase becoming up to 20 kmph from west direction during the afternoon. The surface wind speed will decrease becoming less than 15 kmph from the west direction during evening and night.

Impact expected and action suggested due to appreciably above normal temperature:

- **Warning:** No heat wave conditions are expected; however, temperatures are likely to remain above normal. There may be moderate health risks, particularly for vulnerable groups such as infants, the elderly, and individuals with chronic illnesses.
- **Advisory:** Avoid prolonged exposure to heat. Wear lightweight, light-colored, and loose cotton clothing. Cover your head using a cloth, hat, or umbrella when outdoors.

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

- ❖ Isolated **Hailstorm activity** likely over Mizoram on 16th, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 17th April
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Gangetic West Bengal on 16th April.

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 over

- ❖ **Isolated heavy rainfall** likely over Arunachal Pradesh during 18th -20th; Assam & Meghalaya during 16th -19th, Sub-Himalayan West Bengal & Sikkim on 18th April.

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

- In **Jammu & Kashmir** and **Himachal Pradesh**, use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage.
- Undertake harvesting of matured crops, fruits and vegetables immediately and shift them to safer places.

Agromet advisories for likely impact of Heavy Rainfall

- In **Arunachal Pradesh**, harvest cabbage, pea, mustard, late-maturing paddy varieties & potatoes carefully and shift the harvested produce to safe places. Ensure proper drainage channels in the fields of rice, maize, other standing crops, vegetables, and orchards.
- In **Assam and Meghalaya**, make necessary arrangements to remove excess rainwater from the crop fields.

Agromet advisories for likely impact of High temperatures/ Heat Waves

- **Maharashtra** - In **Konkan**, irrigate green gram, vegetables, and newly planted arecanut and coconut. In **Madhya Maharashtra**, apply light and frequent irrigation to sugarcane, summer groundnut, vegetables, banana, and orchards. Cover banana bunches with leaves. In **Marathwada**, provide light, frequent irrigation to crops such as maize, summer groundnut, sesame, orchards, and vegetables during the morning and evening hours. In **Vidarbha**, apply need-based light and frequent irrigation to summer green gram, groundnut, onion, sunflower, sesame, fodder crops, orchards, and vegetables during cooler hours. Use straw mulch in vegetable and orchard crops to reduce evaporation, and install shade nets for newly planted crops.
- **Gujarat** - **Apply light and frequent irrigation to standing crops like cluster bean, cucumber, ridge gourd, bottle gourd, sponge gourd, and bitter gourd during morning or evening hours. Irrigate groundnut at the flowering and pegging stages.**
- **Odisha**- Provide light irrigation to *Boro* paddy, summer maize, green gram, black gram, groundnut, and vegetable fields. Ensure adequate soil moisture is maintained in mango and cashew crops.
- **Madhya Pradesh** - Apply light irrigation to maize, *moong*, *urd*, groundnut and vegetable crops as per requirement.
- **Chhattisgarh** - Apply light irrigation after weeding and hoeing in *rabi* maize, banana, and papaya plantations. Complete harvesting of wheat and chickpea, and ensure safe storage.
- **Andhra Pradesh**- Provide light irrigation to maintain adequate moisture in standing crops such as paddy, *rabi* maize, sorghum, chickpea, groundnut, sesame, sugarcane, vegetables, and fruit orchards.
- **Telangana** - Provide irrigation to mango orchards and vegetable crops, as required.
- **Karnataka** - Provide protective irrigation to standing crops such as sugarcane, sesame, green gram, black gram, arecanut, vegetables, and nurseries.
- In regions experiencing hot and humid conditions, including **Tamil Nadu, Kerala, and Gangetic West Bengal**, apply light irrigation to summer crops and vegetables to maintain soil moisture
- Apply mulching to conserve soil moisture in the standing crops.

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 securely and cover them to minimize the risk of displacement from 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

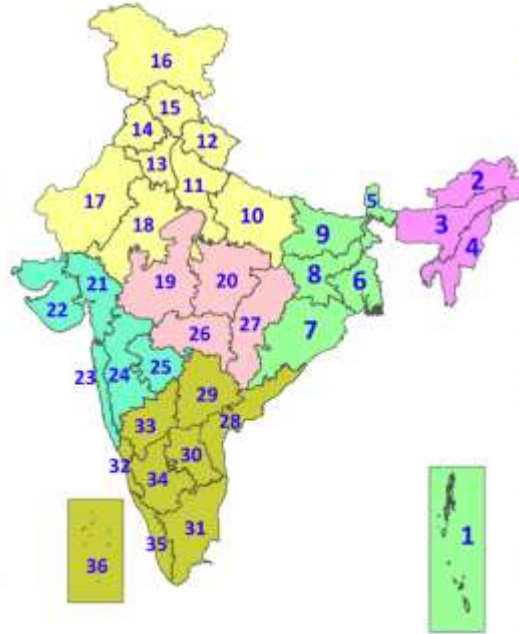
- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain excess water, thereby preventing fish from escaping in the event of overflow.
- In regions with high temperatures and heat waves, provide clean, hygienic, and ample drinking water for animals, and cover the roofs of poultry sheds with grass to reduce the adverse effects.

Legends & abbreviations:

- ❖ **Heavy Rain:**64.5115.5mm; **Very Heavy Rain:**115.6204.4mm; **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

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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