

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 24<sup>th</sup> April, 2025 Time of Issue: 1345 hours IST

Subject: i) Heat wave conditions likely over plains of Northwest India till 29<sup>th</sup> and East & Central India till 26<sup>th</sup> April, 2025;

ii) Heavy to very heavy rainfall spell likely to continue over Northeast India till 27<sup>th</sup> April, 2025.

iii)A fresh spell of rainfall accompanied with thunderstorms & lightning over East & adjoining central India from 26<sup>th</sup> to 28<sup>th</sup> April, 2025.

i. Realised weather during past 24 hours till 0830 hours IST of today, the 24<sup>th</sup> April 2025 (Annexure I):

- Thunderstorm accompanied with Squally/Gusty winds speed reaching 50-60 kmph prevailed at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Madhya Pradesh, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Telangana.
- Hailstorm occurred at isolated places over Sub-Himalayan West Bengal & Sikkim.
- Heavy to very heavy rainfall with extremely heavy falls recorded at isolated places over Assam & Meghalaya; heavy to very heavy rainfall at isolated places over Arunachal Pradesh; and heavy rainfall at isolated places over Kerala
- Heat wave conditions prevailed in isolated pockets of Gangetic West Bengal, Bihar, Odisha, Jharkhand, East Madhya Pradesh, Vidarbha and Telangana.
- Warm night conditions prevailed in isolated pockets of Telangana, Jharkhand and Odisha.
- Hot & humid weather prevailed in isolated pockets of Marathawada.

For more details of realised weather, kindly refer Annexure I

#### **Temperature**:

Maximum Temperature observations during past 24 hours till 0830 hours IST of today are appended in Annexure II.

#### ii. Weather Systems, Forecast and Warnings (refer to Annexure III & IV):

- An upper air cyclonic circulation lies over north Bangladesh and another over northeast Assam in lower tropospheric levels. A north-south trough runs from central Chhattisgarh to Gulf of Mannar in lower tropospheric levels.
- Under the influence of these systems:
  - ✓ Fairly widespread to widespread light/moderate rainfall accompanied with thunderstorm, lightning & strong winds speed reaching 40-50 kmph gusting to 60 kmph likely over Northeast India during next 7 days.
  - Heavy rainfall likely over Assam & Meghalaya, Arunachal Pradesh during 24<sup>th</sup>-27<sup>th</sup>; over Nagaland, Mizoram & Tripura during 24<sup>th</sup>-26<sup>th</sup> with very heavy rainfall over Arunachal Pradesh on 24<sup>th</sup> and over Assam & Meghalaya on 24<sup>th</sup> & 26<sup>th</sup> April.

- Isolated to Scattered light/moderate rainfall accompanied with thunderstorm, lightning & strong winds speed reaching 30-40 kmph gusting to 50 kmph likely over Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe, Tamilnadu Puducherry & Karaikal during next 7 days.
- ✓ **Isolated heavy rainfall** over Kerala on 24<sup>th</sup>, 28<sup>th</sup> & 29<sup>th</sup> and Tamil Nadu on 24<sup>th</sup> April.
- ✓ Isolated to Scattered light/moderate rainfall accompanied with thunderstorm, lightning & strong winds speed reaching 40-50 kmph gusting to 60 kmph likely over East India and East Uttar Pradesh during 26<sup>th</sup>-29<sup>th</sup> April.
- ✓ **Isolated hailstorm** activity likely over Jharkhand on 27<sup>th</sup> & 28<sup>th</sup> and Odisha on 28<sup>th</sup> April.
- Thundersquall (wind speed reaching 50-60 kmph) likely over Bihar during 26<sup>th</sup>-28<sup>th</sup> and Gangetic West Bengal, Vidarbha, Chhattisgarh, East Madhya Pradesh on 27<sup>th</sup> & 28<sup>th</sup> and South Interior Karnataka on 27<sup>th</sup> April.
- ✓ **Isolated heavy rainfall** over Sikkim on 26<sup>th</sup> & 27<sup>th</sup> with **very heavy rainfall** on 26<sup>th</sup> April.
- ✤ A fresh Western Disturbance seen as a trough in middle tropospheric westerlies roughly along Long. 69°E to the north of Lat. 31°N. Under its influence;
  - ✓ Isolated to scattered light rainfall with thunderstorm & lightning likely over Western Himalayan Region during 24<sup>th</sup>-26<sup>th</sup> April.

### **Temperature Forecast:**

- Gradual rise in maximum temperatures by 2-3°C likely over Punjab, Haryana Chandigarh & Delhi, Rajasthan during next 6 days.
- Gradual rise in maximum temperatures by 2-3°C likely over Uttar Pradesh during next 3 days and fall by 2-3°C for subsequent 4 days.
- No significant change in maximum temperatures likely over Gujarat during next 3 Days and rise by 2-3°C for subsequent 3 days.
- No significant change in maximum temperatures likely over East India & adjoining Central India during next 3 days and fall by 3-5°C for subsequent 4 days.
- No significant change in maximum temperatures likely over rest parts of the country.

#### Heat wave, warm night and Hot & Humid weather warning:

- Heat wave conditions very likely in isolated pockets over West Madhya Pradesh during 24<sup>th</sup>-30<sup>th</sup>; Rajasthan during 25<sup>th</sup>-30<sup>th</sup>; East Madhya Pradesh during 24<sup>th</sup>-27<sup>th</sup>; Uttar Pradesh, Vidarbha, Bihar, Odisha, Jharkhand, West Bengal during 24<sup>th</sup>-26<sup>th</sup>; Punjab, Haryana during 25<sup>th</sup>-29<sup>th</sup>; Chhattisgarh, Telangana, Madhya Maharashtra and Marathawada on 24<sup>th</sup> & 25<sup>th</sup> April.
- Warm night conditions very likely in isolated pockets over Gangetic West Bengal, Odisha on 24<sup>th</sup> & 25<sup>th</sup>; Bihar, Telangana on 24<sup>th</sup> April.
- Hot & humid weather is likely to prevail over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema during 24<sup>th</sup>-26<sup>th</sup>; Gujarat State on 24<sup>th</sup> & during 27<sup>th</sup>-30<sup>th</sup> April.

# iv. Weather conditions and forecast over Delhi/NCR during 24<sup>th</sup> April to 27<sup>th</sup> April, 2025 (Annexure V)

## For more details, kindly refer National Weather Bulletin: https://mausam.imd.gov.in/responsive/all india forcast bulletin.php For District wise warnings refer: https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php

#### Significant weather reported during past 24 hours till 0830 hours IST of today:

Light/moderate Rainfall with thunderstorm & lightning observed at many places over Arunachal Pradesh, Assam & Meghalaya; at a few places over Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe, Lakshadweep; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Karnataka.

#### Rainfall recorded (in cm):

- Assam & Meghalaya: D/mohanbari Aero (dist Dibrugarh) 19, Mohanbari\_aws (dist Dibrugarh) 17, Khowang (dist Dibrugarh) 17, Dholla Bazar (dist Tinsukia) 16, Nahar Katia (dist Dibrugarh) 13, Cherrapunji(rkm) (dist East Khasi Hills) 10, Ranganadi Nt Xing (dist Lakhimpur) 9, Moranhat (dist Dibrugarh) 8, Khliehriat (dist East Jaintia Hills) 8, Dhemaji (dist Dhemaji) 7, Majuli (dist Jorhat) 7, Goibargaon (dist Baksa) 7;
- Arunachal Pradesh: Tezu\_ Aws (dist Lohit) 13, Namsai (dist Lohit) 10, Roing (dist Lower Dibang Valley) 8, Pasighat\_Aero (dist East Siang) 8, Passighat\_aws (dist East Siang) 7;
- Kerala & Mahe: Kurudamannil (dist Pathanamthitta) 10, Kanjirappally (dist Kottayam) 6, Ernakulam South (dist Ernakulam) 6, Mattanchery (dist Ernakulam) 5;
- Tamilnadu Puducherry & Karaikal: Kannimar (dist Kanyakumari), Udumalpet (dist Tiruppur) 4 each

#### Realised Gusty wind since last 24 hours (till 0830 hrs IST) (Max Gust in knots, time in IST)

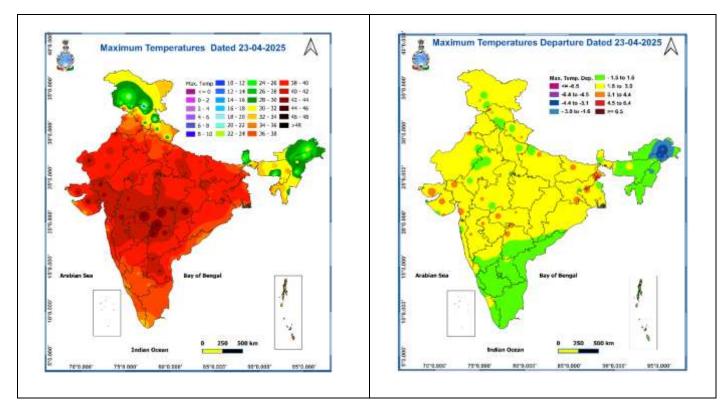
- Assam & Meghalaya: Umium=34,Shillong=31, Dhubri ( Gauripur\_Aegcl)- 19 Kt Sonitpur (Sonitpur\_Amfu)-19 Kt, Kokrajhar (Gossaiganj\_Amfu)- 17 Kt,Kokrajhar (Kokraghar)- 17 Kt, Kokrajhar (Salakati\_Aegcl)- 17 Kt, Chirang (Kajalgaon)- 23 Kt Chirang (Chirang)- 20 Kt, Bongaigaon (Bongaigaon)-20 Kt, Barpeta (Barpeta\_Kvk)- 20 Kt, Goalpara (Dudhnoi\_Kvk)- 23 Kt, Kamrup (Chandubi)- 24 Kt, Karbi\_Anglong(West) (Umpanai\_Apdcl)- )- 20 Kt, Karbi\_Anglong(West) (Umlapher)- 20 Kt, Karbi\_Anglong(West) (Habang\_Circle)- 20 Kt Udalguri (Rowta\_Aegcl) -25 Kt, Sonitpur (Dhekiajuli\_Aegcl)- 24 Kt, Sonitpur (Ghoramara\_Aegcl)- 18 Kt, Dima Hasao (Lkhep)- 23 Kt, Dima Hasao (Haflong Aegcl)- 17 Kt, Hailakandi (Panchgram Aegcl)- 24 Kt Karbi Anglong (Diphu Amfu)- 28kt, Karbi\_Anglon (Bokajaan\_Aegcl)- 19kt, Jorhat (Mariyani\_Aegcl)- 22 Kt, Sivasagar (Sivsagar\_Aegcl)- 25 Kt, Charaideo (Sonari\_Aegcl)- 22 Kt;
- Arunachal Pradesh: BOMDILA=30;
- Jammu-Kashmir-: Kupwara\_Kvk=17kt, Baramulla\_Kvk=17kt, Shopian(Aws)=15kt, Chatta\_Amfu=15kt;
- Uttarakhand: Pantnagar (U.S. Nagar)-35, Jollygrant (Dehradun)-33, Roorkee\_AMFU (Haridwar)-31;
- East Uttar Pradesh: Gorakhpur(Iaf)-15g25kt, Varanasi-12g22kt, Prayagraj(Iaf)-10g20 Kt, Chitrakoot(Iaf)-12g24kt, Lucknow-10g20kt,
- West Madhya Pradesh: Sehore-37 kmph, Ashoknagar-35 kmph, Guna-33 kmph
- East Madhya Pradesh: Singrauli-44 kmph, Sagar-42 kmph, Satna&Mandala-35 kmph;
- Chhattisgarh: Koriya -37 Kmph;
- Haryana: kaul = 38kmph,panipat = 36kmph

#### Temperature observations during past 24 hours till 0830 hours IST of today:

- Yesterday, maximum temperatures were in the range of 40-45°C at many/some stations over interior Maharashtra, Gujarat, west & southeast Rajasthan, Madhya Pradesh, East Uttar Pradesh, Bihar, North Chhattisgarh, interior Odisha, northwest Jharkhand, Telangana, Rayalaseema and North interior Karnataka. Yesterday, the highest maximum temperature of 45.6°C was reported at Brahmapuri (Vidarbha) over the country.
- Yesterday, Maximum Temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Gujarat state, Vidarbha, Jharkhand, Telangana, Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Punjab, Haryana-Chandigarh-Delhi, East Madhya Pradesh, Chhattisgarh, Madhya Maharashtra; at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Odisha, Bihar, Konkan & Goa, Marathwada; at a few places over Sub-Himalayan West Bengal & Sikkim, North Interior Karnataka, Coastal Karnataka; at isolated places over Kerala & Mahe. (Fig. 2)
- Yesterday, Maximum Temperatures had risen by 2-3°C over Jammu & Kashmir, Himachal Pradesh, West Rajasthan, east Bihar, North Gujarat, Konkan, West Bengal, Sikkim, West Assam, Nagaland, Manipur and fallen by 2-4°C over Arunachal Pradesh and northeast Assam and no significant change over rest parts of the country.

#### **Fig. 1: Maximum Temperatures**

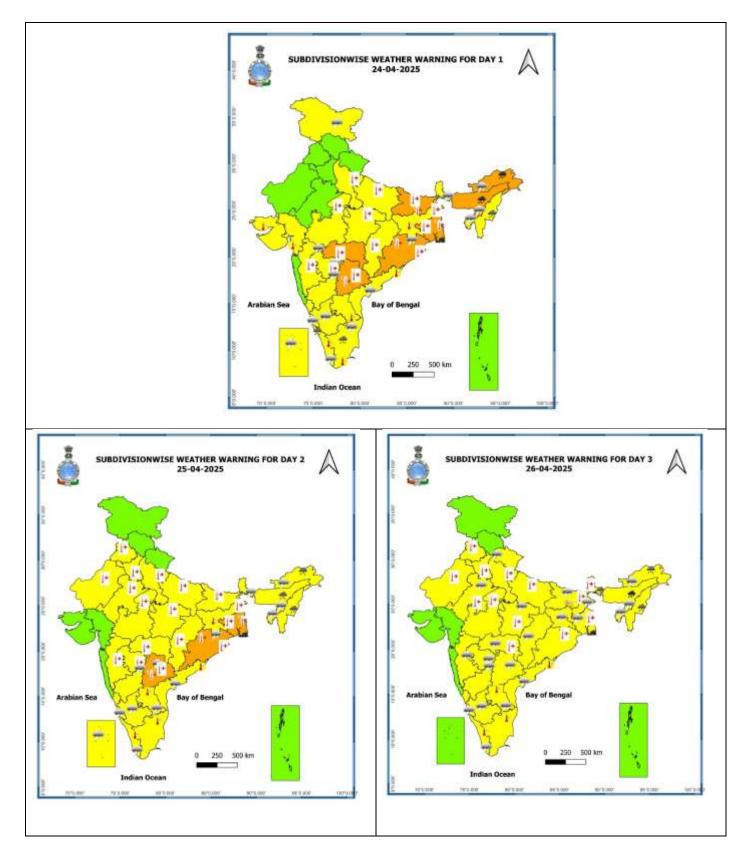
#### Fig. 2: Departure of Maximum Temperatures

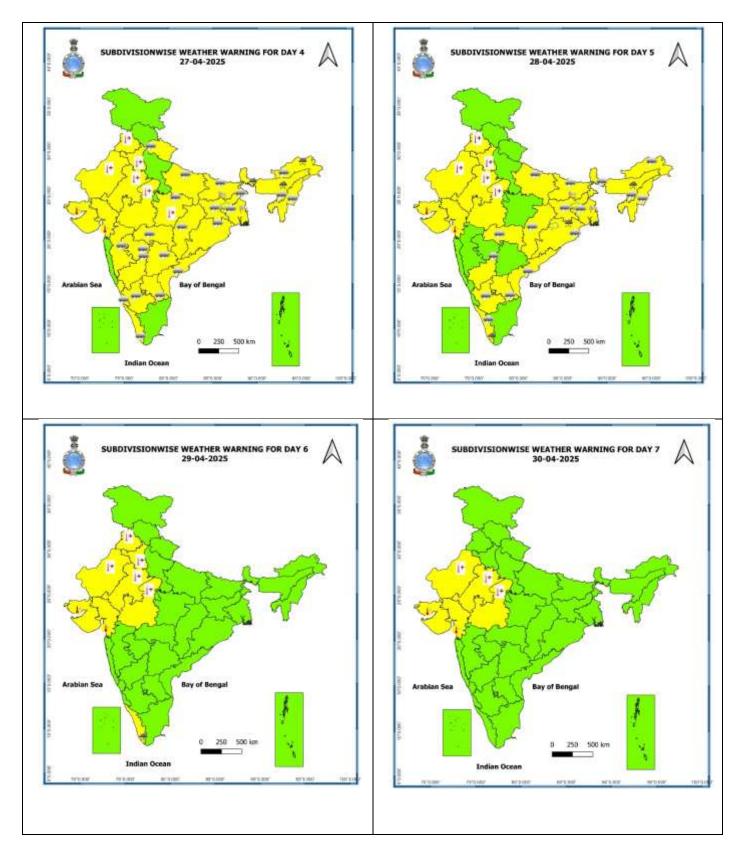


7 Days Rainfall Forecast								
S. No.	Subdivision	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	SCT	SCT	ISOL	SCT	SCT	ISOL
2	ARUNACHAL PRADESH	WS	WS	WS	FWS	FWS	SCT	SCT
3	ASSAM & MEGHALAYA	WS	WS	WS	WS	FWS	FWS	FWS
4	NAGALAND,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

• As the lead period increases forecast accuracy decreases.

## **ANNEXURE IV**





- Action may be taken based on ORANGE AND RED COLOUR 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 <a href="https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php">https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php</a>

## Weather forecast over Delhi/NCR during 24 to 27 Apr. 2025

#### Past Weather:

There has been rise in minimum temperature upto 01°C and slight fall in maximum temperature over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 39 to 41°C and 18 to 24 °C respectively. The minimum temperature was below normal upto 01 - 02°C and maximum temperature was above normal upto 01 - 03°C over Delhi/NCR. Predominant surface wind from the west direction with wind speeds less than 20 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind speed less than 12 kmph from the southwest direction prevailed over the region in the forenoon today.

### Weather Forecast:

**24.04.2025:** Mainly clear sky. Occasional sustained surface winds (speed 10-20 kmph) gusting upto 30 kmph. The maximum temperature over Delhi is likely to be in the range of 40 to 42°C. The minimum temperature will be below normal upto 01 - 02°C and maximum temperature will be above normal upto 01 - 03°C. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 20 kmph till evening. It would decrease becoming less than 12 kmph from the northwest direction during the night.

**25.04.2025:** Mainly clear sky. Occasional sustained surface winds (speed 10-20 kmph) gusting upto 30 kmph. Heat wave conditions very likely at isolated places over Delhi. The maximum and minimum temperatures over Delhi are likely to be in the range of 41 to 43°C and 22 to 24°C respectively. The minimum temperature will be near normal and maximum temperature will be above normal upto 03 - 05°C. The predominant surface wind will likely be from the northwest direction with a wind speed of 06-10 kmph during morning hours. The wind speed will gradually increase thereafter becoming 14-16 kmph from the northwest direction during the afternoon. It will decrease becoming less than 12 kmph from the northwest direction during evening and night.

**26.04.2025**: Mainly clear sky becoming partly cloudy sky towards evening. Occasional sustained surface winds (speed 10-20 kmph). Heat wave conditions very likely at isolated places over Delhi. The maximum and minimum temperatures over Delhi are likely to be in the range of 41 to 43°C and 23 to 25°C respectively. The minimum temperature will be near normal and maximum temperature will be above normal upto 03 - 05°C. The predominant surface wind will likely be from the southeast direction with a wind speed of 10-12 kmph during morning hours. The wind speed will gradually increase becoming 12-16 kmph from the south direction in the afternoon. It will decrease becoming less than 12 kmph from the southeast direction during evening and night.

**27.04.2025:** Partly cloudy sky. Occasional sustained surface winds (speed 10-20 kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 40 to 42°C and 23 to 25°C respectively. The minimum temperature will be near normal and maximum temperature will be above normal upto 02 - 04°C. The predominant surface wind will likely be from the southeast direction with a wind speed less than 18 kmph during morning hours. The wind speed will gradually decrease becoming 12-14 kmph from the southeast direction during evening and night.

#### Impact expected and Action Suggested:

- Be cautious and take precautionary measures though there is no likelihood of heat wave conditions. There is likelihood of heat related impact to vulnerable population as the temperatures are likely to be above normal.
- Moderate health concern for vulnerable people e.g. infants, elderly people with chronic diseases.
- Avoid heat exposure, wear light weight, light colored, loose, cotton clothes, cover your head, use a cloth, hat or umbrella.

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

- ✓ Hailstorm over Jharkhand on 27<sup>th</sup> & 28<sup>th</sup> and Odisha on 28<sup>th</sup> April.
- ✓ Thundersquall likely over Bihar during 26<sup>th</sup>-28<sup>th</sup> and Gangetic West Bengal, Vidarbha, Chhattisgarh, East Madhya Pradesh on 27<sup>th</sup> & 28<sup>th</sup> and South Interior Karnataka on 27<sup>th</sup> 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 and action suggested due to Heat wave conditions over plains of Northwest India** till 29<sup>th</sup> and East & Central India till 26<sup>th</sup> April.

#### **Yellow alert Areas**

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- > Wear lightweight, light colour, loose, cotton clothes.
- Cover your head, use a cloth, hat or umbrella.

## Impact & Action Suggested due to heavy to very heavy rainfall over Arunachal Pradesh, Assam & Meghalaya on 24<sup>th</sup> April.

#### **Impact Expected**

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- 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
- 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 Hailstorm / Heavy Rainfall / Gusty Winds / Heat wave

- In Arunachal Pradesh, Assam, Meghalaya, Nagaland and Kerala, drain out excess water from standing crop and vegetable fields.
- In Madhya Pradesh, Chhattisgarh, Vidarbha, Madhya Maharashtra, Marathwada, Uttar Pradesh, Rajasthan, Haryana, Punjab, Odisha, Bihar, Gangetic West Bengal, Telangana and Gujarat, apply light and frequent irrigation to standing crops, vegetables and orchards in the evening to protect them from adverse effects of heat waves and high temperatures.
- 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 to vegetables to avoid lodging.

## Livestock / Poultry / Fishery

- ▶ Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- > Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also, provide clean, hygienic and plenty of drinking water to animals.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

## Legends & abbreviations:

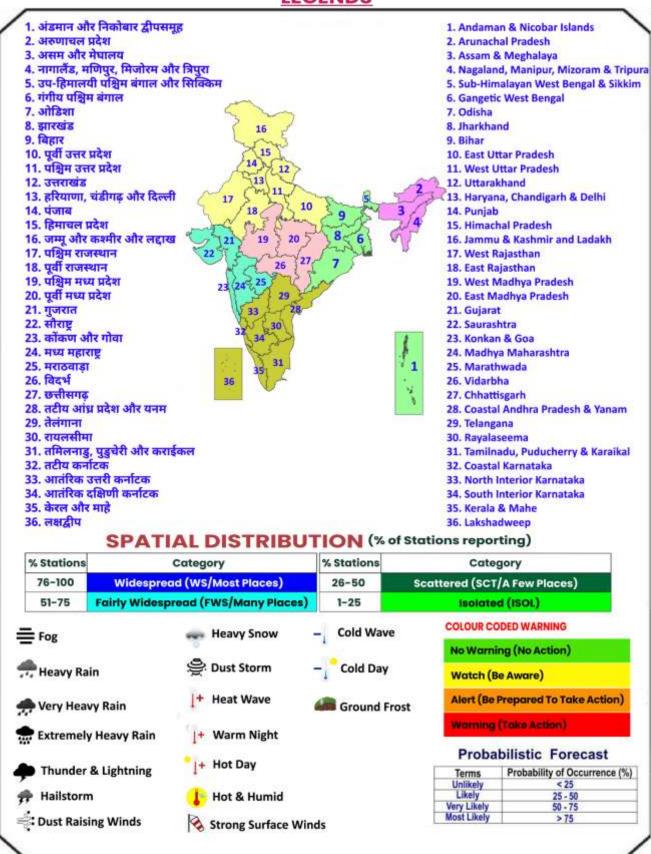
- Heavy Rain:64.5-115.5mm; Very Heavy Rain:115.6-204.4mm; Extremely Heavy Rain: >204.4mm.
- Obsy: Observatory; AWS: Automatic Weather Station; ARG: Automatic Rain Gauge; dist: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office, Aero: Aerodrome, 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.



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences



\* 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: 011-2434-459 (Service to the Nation since 1875)





National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

	Heavy: 64.5 to 115.5 mm/cm *
ain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions (a) Based on Departure from normal
	Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
	Severe Heat Wave: Maximum Temperature Departure from normal ≥8.5° C
leat Wave	(b). Based on Actual maximum temperature Heat Wave: When actual maximum temperature ≥45°C.
	Severe Heat Wave: When actual maximum temperature 247°C
	( c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
	When maximum temperature remains 40°C
/arm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C
	Severe Warm Night: When minimum temperature departure >6.4 °C.
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions. (a). Based on departure
	Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C. Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C
Cold Wave	(b) Based on actual Minimum Temperature (for Plains only)
	Cold Wave : When Minimum Temperature is ≤ 4.0 °C
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	( c) For Coastal Stations When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
	When minimum temperature of a station <10°C for plains and ≤0°C for hilly regions
Cold Day	Based on departure Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Day: Maximum Temperature Departure from normal s -6.5 °C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Fog: When the visibility between 500-200 metres
Fog	Dense Fog: when the visibility between 50-200 metres
	Very Dense Fog: when the visibility < 50 metres
understorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
Dust/Sand Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
Carlos and a second	Ice deposits on ground
Frost	Air temperature ≤4°C (over Plains)
	A strong wind that rises suddenly, lasts for atleast 1 minute.
Squall	Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph
oquan	Very Severe: Wind speed >87 kmph
	Na disense and a second s
	Effect of various waves in the sea over specific area Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2,5-6 metre
Sea State	High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre
	Phenomenal. Wind speed >117 kmph (>63 knots) & Wave height >14 metre
	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
	Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
	Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) Super Cyclone Strom: Wind speed >220 kmph (>119 knots)

**Hot and Humid:** When maximum temperatures remain 3°C above normal along with the above normal relative humidity.