



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 19th April 2026
Time of Issue: 1345 hours IST

Subject:(i) Heat wave conditions very likely in isolated pockets of West Madhya Pradesh & Vidarbha, Chhattisgarh on 19th & 20th; East Uttar Pradesh, East Rajasthan, East Madhya Pradesh during 19th-23rd; Jharkhand on 20th & 21st; West Uttar Pradesh during 20th-22nd; West Rajasthan during 20th-23rd and Punjab, Haryana, Chandigarh, Odisha during 21st-23rd April.

(ii) Isolated Heavy rainfall with lightning and thunderstorm very likely over Assam & Meghalaya during 19th-21st; Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh on 19th with isolated very heavy rainfall likely over Arunachal Pradesh on 20th & 21st April.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 19th April, 2026:

- ❖ **Very heavy rainfall (12-20 cm)** has been recorded at isolated places over Assam.
- ❖ **Heavy rainfall (7-11 cm)** has been recorded at isolated places over Tripura.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds with speed reaching 50-80 kmph** prevailed at isolated places over Bihar and Sub-Himalayan West Bengal; **with speed 30-50 kmph** prevailed at isolated places over Gujarat State, Madhya Pradesh, Madhya Maharashtra, Coastal Maharashtra, Jammu-Kashmir, Himachal Pradesh, Punjab, Assam & Meghalaya, Arunachal Pradesh, Manipur and Tripura.
- ❖ **Warm night conditions** prevailed in isolated pockets over Odisha.

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

- ❖ **Maximum/day temperatures** were in the range of 40°C-45°C over most places of Vidarbha; many places of Marathwada, Madhya Pradesh; some places of Chhattisgarh, Telangana, East Uttar Pradesh; at isolated places over interior Odisha, Rayalaseema, Jharkhand, Rajasthan, Gujarat and in the range of 36°C-40°C over rest parts of the country except parts of Western Himalayan region and Northeast India, where they were below 36°C. **Yesterday, the highest maximum temperature of 45.0°C was, jointly observed at Rajnandgaon (Chhattisgarh) and Wardha (Vidarbha).**
- ❖ **Maximum/day temperatures** were markedly above normal (> 5.1°C) over Arunachal Pradesh, Assam; appreciably above normal (3.1°C to 5.0°C) over Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Rayalaseema; below normal (-3.0°C to -1.6°C) over Jammu-Kashmir, West Bengal & Sikkim and near normal over rest parts of the country.
- ❖ **Minimum/night temperatures were in the range of 13-19°C** over Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal. They were in the range of 20-26°C over remaining parts of the plains of the country. **Today, the lowest minimum temperature of 19.0 °C was observed at Ludhiana (Punjab) over the plains of India.**
- ❖ **Minimum/night Temperature** were appreciably above normal (3.1°C to 5.0°C) over Jammu-Kashmir, Himachal Pradesh, West Uttar Pradesh, Madhya Maharashtra, Gangetic West Bengal and Odisha; below normal (-3.0°C to -1.6°C) over West Madhya Pradesh, Saurashtra & Kutch 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 tropospheric westerlies runs roughly along Long. 66°E to the north of Lat. 20°N.
- ❖ An upper air **cyclonic circulation** lies over Southwest Rajasthan in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over northeast Bangladesh & neighbourhood in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over East Uttar Pradesh & neighbourhood and a north-south trough runs from above the cyclonic circulation over East Uttar Pradesh & neighbourhood to coastal Odisha across Jharkhand in lower tropospheric levels.
- ❖ Another north-south **trough** in easterly runs from Gulf of Mannar to North Interior Karnataka across Tamil Nadu and South Interior Karnataka in lower tropospheric levels.

- ❖ An east-west **trough** runs from the above cyclonic circulation over East Uttar Pradesh to Manipur across Bihar, northern parts of Gangetic West Bengal, cyclonic circulation over northeast Bangladesh in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over east Assam & neighbourhood in lower tropospheric levels.
- ❖ Subtropical westerly **Jet Stream** with core winds of the order of 80 knots at 12.6 km above mean sea level continues to prevail over north India.
- ❖ A fresh **Western Disturbance** is likely to affect Western Himalayan region from 23rd April.
- ❖ An **Anti-cyclonic circulation** lies over interior Maharashtra & adjoining Telangana and North Interior Karnataka in lower & middle tropospheric levels.

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

Northwest India:

- ❖ **Fairly widespread** light to moderate rainfall/snowfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and **Isolated to Scattered** over Himachal Pradesh on 19th and Uttarakhand on 19th & 20th April.
- ❖ **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over Punjab, Haryana, Chandigarh & Delhi on 19th; **with lightning** over West Rajasthan on 19th April.

Northeast India:

- ❖ **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds (speed reaching 30-50 kmph)** likely over Arunachal Pradesh, Assam & Meghalaya during 19th -23rd; Nagaland, Manipur, Mizoram & Tripura during 19th -22nd April.
- ❖ **Isolated heavy rainfall** likely over Assam & Meghalaya during 19th-21st and Arunachal Pradesh on 19th with isolated **very heavy rainfall** likely over Arunachal Pradesh on 20th & 21st April.

East India:

- ❖ **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Bihar on 19th; Odisha, Sub-Himalayan West Bengal & Sikkim during 19th- 23rd April; Jharkhand on 20th & 21st April.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Bihar on 23rd April.
- ❖ **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 19th April.

Central India:

- ❖ **Isolated** light rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over West Madhya Pradesh on 19th and Chhattisgarh during 19th-22nd 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 19th; Telangana and Karnataka during 19th-23rd; **with lightning** over Rayalaseema during 20th-22nd; Kerala & Mahe during 20th -23rd and Tamil Nadu, Puducherry & Karaikal on 22nd & 23rd April.
- ❖ Isolated **Hailstorm activity** likely over Telangana and North Interior Karnataka on 19th April.

West India:

- ❖ **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over Coastal Maharashtra during 19th-21st and Madhya Maharashtra, Marathawada during 19th – 23rd April.
- ❖ Isolated **Hailstorm activity** likely over Madhya Maharashtra and Marathawada on 19th April.

Forecast of maximum/day temperatures:

- ❖ Gradual rise in maximum temperatures by 2-4°C likely over Northwest India except East Uttar Pradesh where no significant change in maximum temperatures during next 7 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over East India during 19th-21st April and no significant change during 22nd -25th April.
- ❖ No significant change in maximum temperatures likely over rest parts of the country during 19th to 25th April.

Heat wave, Hot & Humid weather and Warm night warning:

- ❖ **Heat wave conditions** very likely in isolated pockets of West Madhya Pradesh & Vidarbha, Chhattisgarh on 19th & 20th; East Uttar Pradesh, East Rajasthan, East Madhya Pradesh during 19th-23rd; Jharkhand on 20th & 21st; West Uttar Pradesh during 20th-22nd; West Rajasthan during 20th-23rd and Punjab, Haryana, Chandigarh, Odisha during 21st-23rd April.
- ❖ **Hot & humid weather conditions** very likely to prevail in isolated pockets over Kerala & Mahe on 19th & 20th; Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Coastal Karnataka during 19th-23rd; Gangetic West Bengal during 20th-25th April.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Haryana, Chandigarh during 21st-23rd; West Uttar Pradesh and Odisha during 19th-21st; Chhattisgarh on 19th April.

Weather conditions and forecast over Delhi/NCR during 19th-22nd 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>

Significant rainfall recorded (in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today):

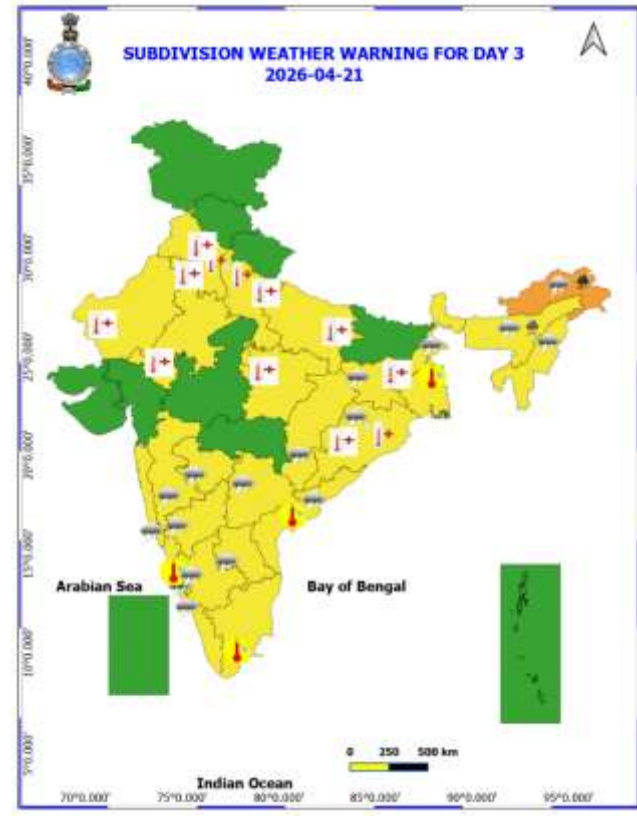
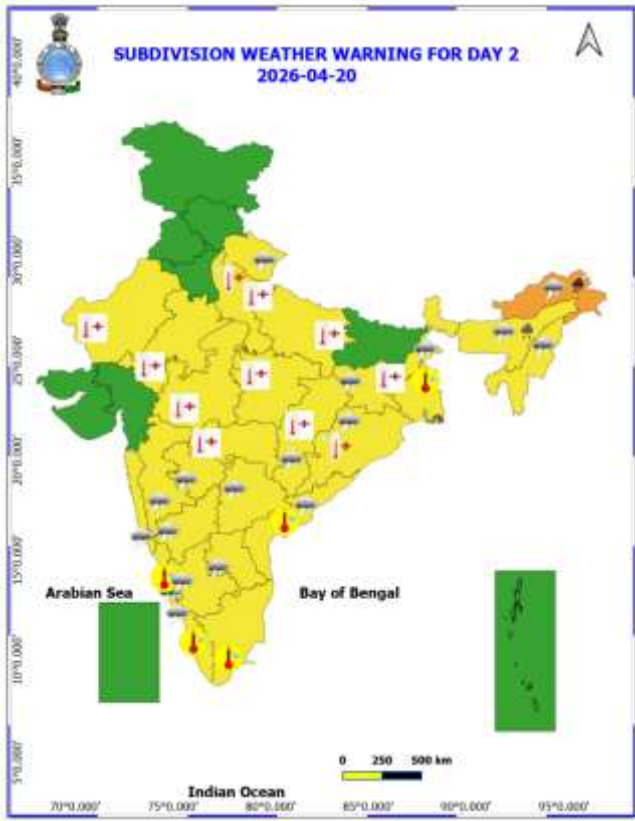
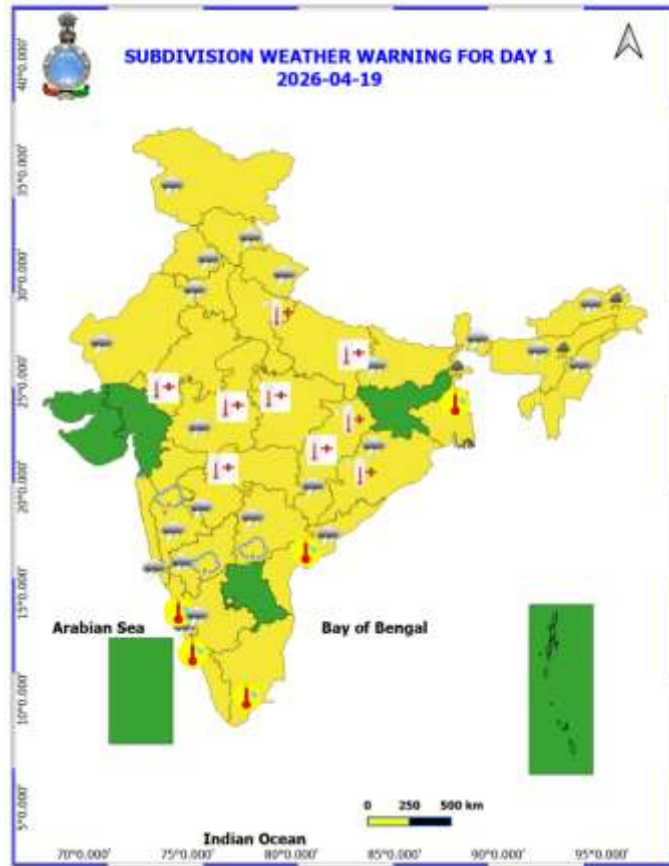
- ❖ **Assam:** Amraghat (dist Cachar) 12, Panchgram (dist Hailakandi) 8, Dhubri (dist Dhubri) 7;
- ❖ **Tripura:** Kailashahar (dist Unakoti) 10, Dharmanagar/ Panisagar (dist North Tripura) 8.

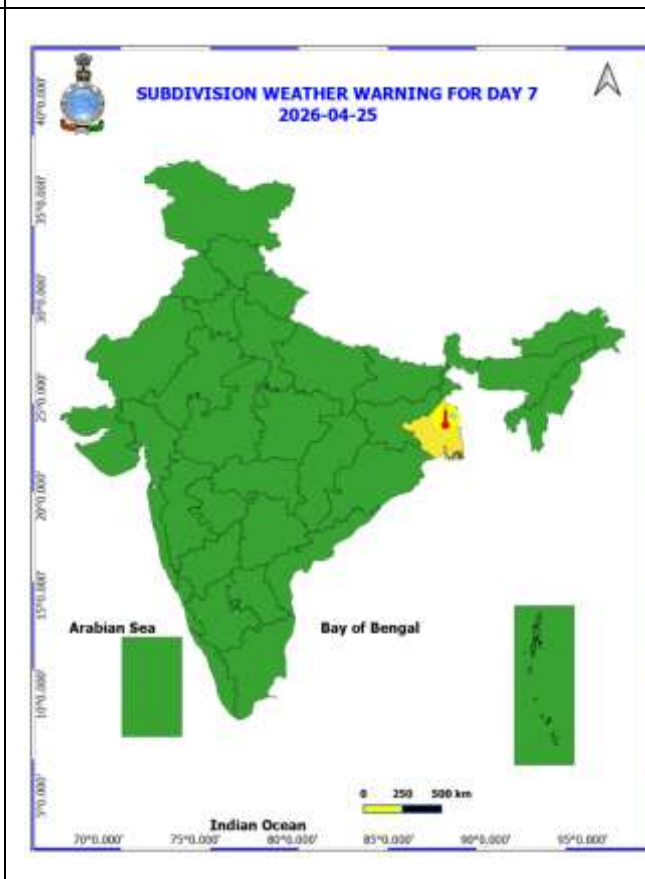
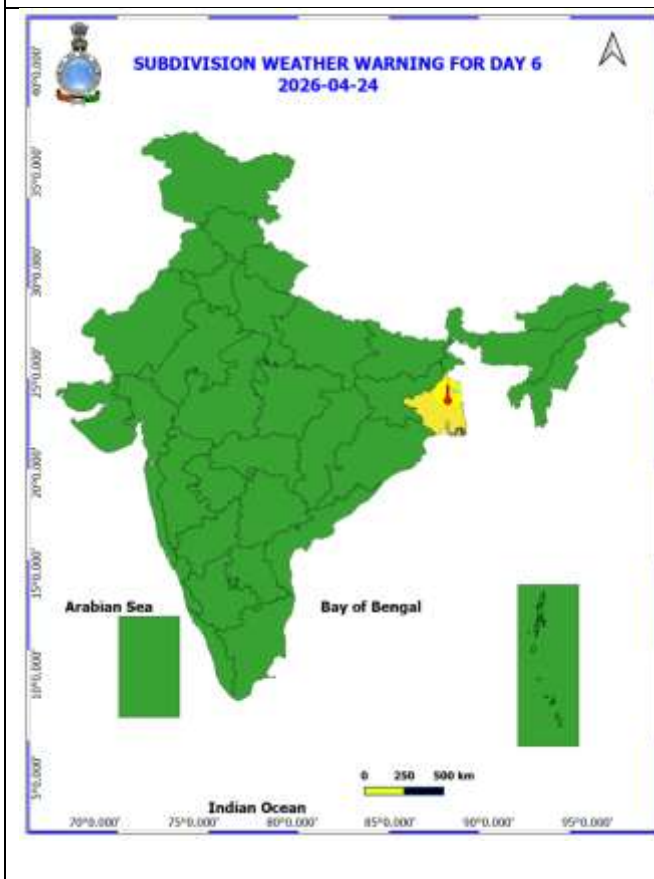
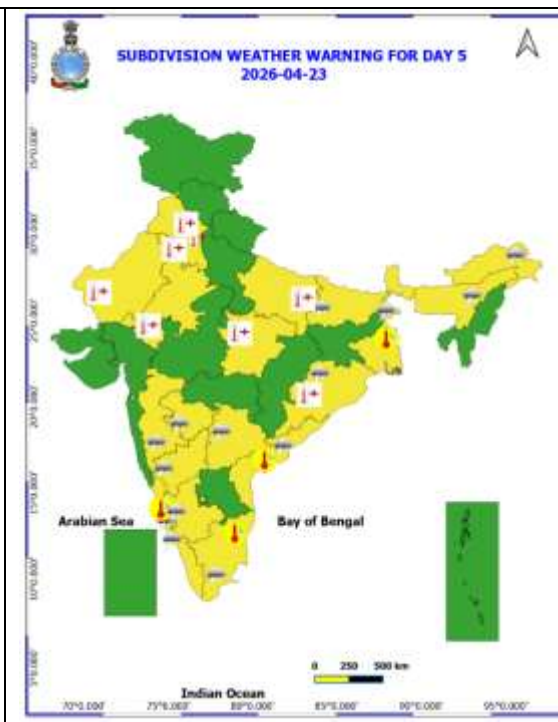
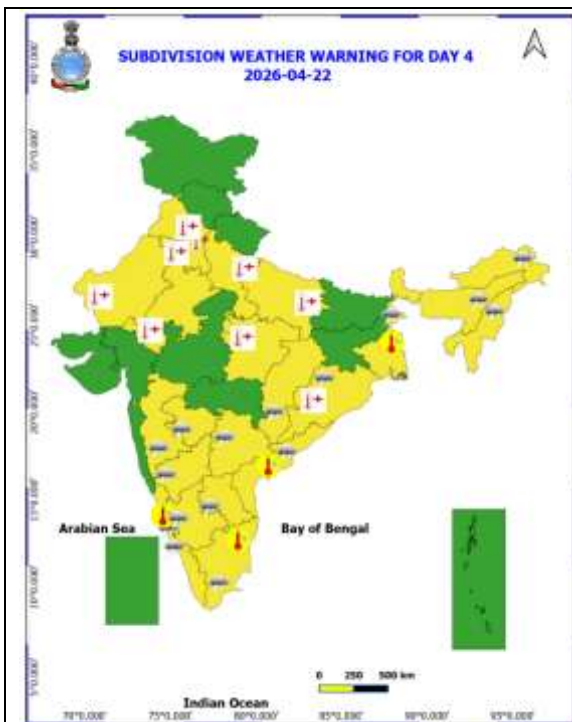
Gusty winds (in kmph) (from 0830 hours IST of yesterday to 0830 hours IST of today):

- ❖ **Sub-Himalayan West Bengal:** Balurghat 72, Pundibari 48;
- ❖ **Bihar:** Madhepura 65;
- ❖ **Manipur & Tripura:** Khoumum 50, Kamalpur (North) 50, Panisagar (North) 46, Kailashahar (Unakoti) 35, Agartala Airport (West) 41, Jiribam 48, Imphal 37;
- ❖ **Arunachal Pradesh:** Miao 48, Seppa_Pampoli 35, Longding 35;
- ❖ **Assam & Meghalaya:** Panchgram 48, Amingaon 44, Silchar_Jns_College 44, Guwahati 43, Manas 41, Algapur_Circle 39, Agia 37, Boko 37, Gauripur 37, Agomani 33, VCBC_Rani 33, Gauhati_University 31, Ampati 70, Tura 44, Mawkyrwat 44;
- ❖ **Punjab:** Faridkot 43, Pathankot 38; Amritsar 35;
- ❖ **West Madhya Pradesh:** Sehore 41, Ashoknagar 31;
- ❖ **Jammu-Kashmir:** Kathua 37, Samba 33, Chatha 31;
- ❖ **Himachal Pradesh:** Seobagh 33;
- ❖ **Coastal Maharashtra:** Karjat (Raigad) 33, Alibag (Raigad) 33;
- ❖ **Saurashtra & Kutch:** Kandla (Kutch) 33;
- ❖ **Madhya Maharashtra:** Vilholi (Nashik) 31;
- ❖ **East Madhya Pradesh:** Sagar 31;
- ❖ **Gujarat Region:** Arnej 30

Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	19- Apr	20- Apr	21- Apr	22- Apr	23- Apr	24- Apr	25- Apr
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	FWS	FWS	FWS	FWS	FWS	SCT	SCT
3	ASSAM & MEHGHALAYA	FWS	FWS	FWS	FWS	FWS	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	SCT	FWS	SCT	SCT	SCT	ISOL	SCT
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	FWS	SCT	ISOL	ISOL	SCT	SCT	FWS
6	GANGETIC WEST BENGAL	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	DRY	ISOL	ISOL	DRY	DRY	ISOL	ISOL
9	BIHAR	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
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	DRY	DRY	ISOL	ISOL
13	HARYANA, CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	SCT	ISOL	DRY	DRY	DRY	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	FWS	ISOL	DRY	DRY	ISOL	SCT	SCT
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
27	CHHATTISGARH	ISOL	ISOL	ISOL	ISOL	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	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
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	SCT	ISOL	SCT	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 19th April to 22nd April 2026**Past Weather:**

There has been no large change in maximum temperatures and rise in minimum temperatures by 1-2°C during past 24 hours over Delhi. The minimum temperatures are in the range of 20 -23°C and maximum temperatures were in the range of 39 - 41°C 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 appreciably above normal (3.1°C to 5.0°C) at a few places, above 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 surface wind speeds up to 16 kmph prevailed from northwest direction over Delhi during past 24 hours. Partly cloudy sky with surface wind speeds up to 15 kmph likely to prevailed from southwest direction over the region in the forenoon today.

Weather Forecast:

19.04.2026: Partly cloudy sky. Possibility of thundery development towards afternoon to evening. The maximum temperature over Delhi is likely to be in the range of 40°C to 42°C. The maximum temperature will be appreciably above normal (3.0°C to 5.0°C) over Delhi. The predominant surface wind is likely to be from west direction reaching up to 15 kmph during the afternoon. The wind speed will decrease becoming up to 15 kmph from northwest direction during evening and night.

20.04.2026: Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 39°C to 41°C and 20°C to 22°C respectively. The minimum temperatures will be near normal (-1.5°C to 1.5°C) at most places and the maximum temperature will be above normal (1.6°C to 3.0°C) at most places over Delhi. The predominant surface wind is likely to be from the west direction with wind speed reaching up to 15 kmph during the morning hours. The wind speed will increase becoming less than 18 kmph from west direction during the afternoon. The wind speed will decrease becoming up to 10 kmph from the northwest direction during evening and night.

21.04.2026: Partly cloudy sky. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 39°C to 41°C and 20°C to 22°C respectively. The minimum temperatures will be near normal (-1.5°C to 1.5°C) and the maximum temperatures will be above normal (1.6°C to 3.0°C) over Delhi. The predominant surface wind is likely to be from the northwest direction associated with wind speed reaching up to 10 kmph during the morning hours. The wind speed will then increase reaching up to 15 kmph from northwest direction during afternoon hours. The predominant surface wind will be decrease becoming up to 10 kmph from west direction during evening and night.

22.04.2026: Mainly Clear sky. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 40°C to 42°C and 21°C to 23°C respectively. The minimum temperatures will be near normal (-1.5°C to 1.5°C) and the maximum temperatures will be appreciably above normal (3.0°C to 5.0°C) at most places over Delhi. The predominant surface wind is likely to be from the west direction associated with wind speed reaching up to 10 kmph during the morning hours. The wind speed will then increase reaching up to 20 kmph from northwest direction during afternoon hours. The predominant surface wind will be decrease becoming up to 15 kmph from northwest direction during evening and night.

Impact expected and action suggested due to 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

- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Bihar on 23rd April.
- ❖ **Isolated Hailstorm activity** likely over Madhya Maharashtra, Marathawada, Telangana and North Interior Karnataka on 19th 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/very heavy rainfall over

- ❖ **Isolated heavy rainfall** likely over Assam & Meghalaya during 19th-21st and Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh on 19th with isolated **very heavy rainfall** likely over Arunachal Pradesh on 20th & 21st 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.

Impact expected and action suggested due to Heat wave conditions over West Madhya Pradesh, Chhattisgarh & Vidarbha on 19th & 20th; East Uttar Pradesh, East Rajasthan, East Madhya Pradesh during 19th-23rd; Jharkhand on 20th & 21st; West Uttar Pradesh during 20th-22nd; West Rajasthan during 20th-23rd and Punjab, Haryana, Chandigarh, Odisha during 21st-23rd April.

Alert Areas

- High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure– keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

Agromet advisories for likely impact of Hailstorms

- In **Madhya Maharashtra, Marathwada, North Interior Karnataka and Telangana**, use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage.
- Ensure effective field drainage to prevent waterlogging. Undertake picking of matured fruits at the earliest. Keep the harvested produce in safe places.

Agromet advisories for likely impact of Heavy Rainfall

- In **Sub-Himalayan West Bengal**, complete harvesting of rice, maize, mustard and potato. Maintain proper drainage in standing crops.
- 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**, provide need-based irrigation to sugarcane, summer groundnut, bajra, vegetables, and orchards as per requirement. In **Marathwada**, apply light and frequent irrigation to maize, summer groundnut and sesame, orchards & vegetables during 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.
- **Jharkhand** - Apply light and frequent irrigation to the standing crops. Carry out mulching with crop residue, straw or polythene to minimize the loss of soil moisture. Use temporary shade nets to protect the fruit plants from high temperatures.
- **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, Coastal Karnataka and Coastal Andhra Pradesh and Rayalaseema** 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

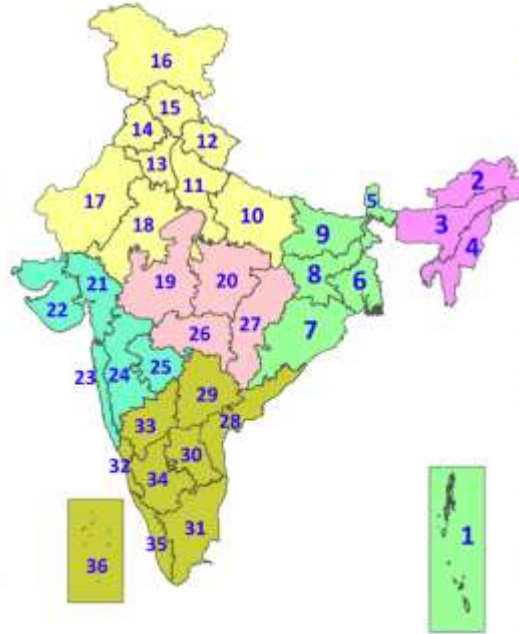
- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain excess water, thereby preventing fish from escaping in the event of overflow.
- In 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>

* 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)