

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 13thApril, 2025 Time of Issue: 1345 hours IST

Subject: i) A fresh spell of heat wave likely to commence over parts of Northwest India and over Gujarat from 15th April.

ii) Rainfall along with thunderstorm & lightning and gusty/squally winds is likely to continue over East & adjoining East Madhya Pradesh & Chhattisgarh during next 4-5 days.

- i.Realised weather during past 24 hours till 0830 hours IST of today, the 12th April 2025 (Annexure I):
 - Thunderstorm accompanied with Squally/Gusty winds prevailed at a few places over Odisha and at isolated locations over Assam & Meghalaya, Tripura, Himachal Pradesh, Uttarakhand, Haryana, Uttar Pradesh, East Rajasthan, West Bengal & Sikkim, Jharkhand, Bihar, Madhya Pradesh, Vidarbha, Chhattisgarh
 - Hailstorm occurred at isolated places over Himachal Pradesh, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Madhya Maharashtra and Odisha.
 - Heavy rainfall recorded at isolated places over Sub-Himalayan West Bengal & Sikkim.
 - **Duststorm** recorded at isolated places over East Uttar Pradesh.

For more details of realised weather, kindly refer Annexure I

Temperature:

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

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

- The Western Disturbance as a trough in westerlies in middle tropospheric levels runs roughly along Long. 81°E to the north of Lat. 21°N. An upper air cyclonic circulation lies over southeast Madhya Pradesh and a trough runs from this cyclonic circulation to central parts of Telangana and a trough from central parts of West Rajasthan to cyclonic circulation over Southeast Madhya Pradesh and another trough runs from central parts of Bihar to North Coastal Odisha in lower tropospheric levels.
- An Upper air cyclonic circulations also lie over south Assam & another over central parts of Coastal Andhra Pradesh & Yanam in lower tropospheric levels.
- Under the influence of these systems:
 - Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 40-50 kmph) likely over Northeast and adjoining East India during next 5 days.
 - ✓ Isolated to scattered rainfall accompanied with **thunderstorm**, lightning & gusty winds (speed 40-50 kmph) likely over plains of Central India and Maharashtra on 13th & 14th April.
 - ✓ Heavy rainfall likely over Sub-Himalayan West Bengal & Sikkim on 13th; Assam & Meghalaya during 14th-16th; Odisha on 15th & 16th April.

- ✓ **Isolated Hailstorm** likely over Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam and Madhya Pradesh on 13th; Jharkhand on 14th & 15th April.
- Thundersquall (wind speed reaching 50-60 kmph) very likely at isolated places over Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam and Madhya Pradesh on 13th April.
- ✓ Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 30-40 kmph) likely over Tamilnadu Puducherry & Karaikal, North interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana during next 5 days. Isolated to Scattered light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 40-50 kmph) likely over South Interior Karnataka, Kerala & Mahe during next 3 days.

Temperature Forecast:

- Gradual Rise in maximum temperatures by 3-5°C likely over Northwest India during next 5-6 days during 13-18 April.
- No significant change in maximum temperatures likely over Central India during next 24 hours and gradual rise by 2-4°C during 14th-19th April.
- Rise in maximum temperatures by 2-4°C likely over West India during next 5 days and no significant change thereafter during subsequent 2 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 at isolated/some places over West Rajasthan on 14th & 15th with severe heat wave conditions at many parts during 16th-18th and at isolated pockets on 19th April.
- Heat wave conditions are very likely at isolated places over north Tamil Nadu on 13th; Telangana on 13th & 14th; West Madhya Pradesh during 15th-19th; Gujarat state from 15th-17th; Punjab, Haryana during 16th-18th April and over East Rajasthan during 16th-19th April.
- Hot & humid weather is likely to prevail over Coastal Andhra Pradesh & Yanam on 13th; Gujarat State during 15th-17th April.
- iv. Weather conditions and forecast over Delhi/NCR during 13th April to 16th April, 2025 (Annexure V)

For more details, kindly refer National Weather Bulletin:

<u>https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php</u> For District wise warnings refer: <u>https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php</u>

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

Light/moderate Rainfall with thunderstorm & lightning observed at most places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim; at many places over Himachal Pradesh, Uttarakhand; at a few places over Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, East Madhya Pradesh; at isolated places over Punjab, Haryana Chandigarh & Delhi, up, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand, Nagaland, Manipur, Mizoram & Tripura.

Rainfall recorded (in cm):

- Sub-Himalayan West Bengal & Sikkim: Falakata-7, Amfu Pundibari (dist Cooch Behar) 6, Kabi (dist Mangan) 5, Cooch Behar (dist Cooch Behar) 4,
- Assam & Meghalaya: Dudhnoi ARG (dist Goalpara) 5, Barpeta/sarbhog_aws (dist Barpeta) 5, Kajolgaon_aws (dist Chirang) 4,
- Tamil Nadu: Vellore (dist Vellore), Tirupuvanam (dist Sivagangai), Melur (dist Madurai), Mullanginavillai (dist Kanyakumari), Kelavarapalli Dam (dist Krishnagiri) 3 each,
- Kerala & Mahe: Kunnamkulam (Thrissur district) 4, Kunnamkulam (Thrissur district), Pothundy Dam & amp; Kanjirapuzha (both in Palakkad district) 3 each,
- South Interior Karnataka: N R Pura (dist Chikkamagaluru) 4, Jayapura (dist Chikkamagaluru) 3,
- * Rayalaseema: Chittoor (dist Chittoor) 4, Chinnamandem (dist Annamayya District) 3.

Realised Gusty Winds during past 24hours ending at 0300 UTC of today i.e 13.04.2025 (Received from RMCs/MCs):

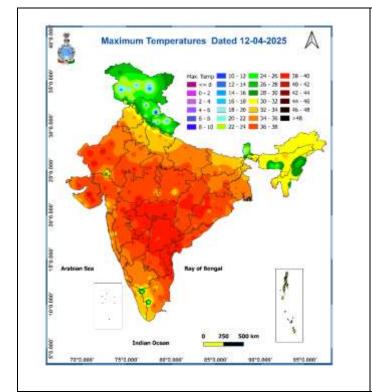
- Uttarakhand- Nainital (23KTS, 1130),
- Punjab- Fatehgarh_Sahib (30kts, 1200), Moga (23kts, 1315)
- Himachal Pradesh Bilaspur (27KTS, 1015), Kullu (25KTS, 0915)
- * Rajasthan- Jaipur (34KTS,1515), Ajmer (28KTS, 1400), Sikar (27KTS,1430)
- West Uttar Pradesh Hathras (43KTS, 1545), Etawah (23KTS, 1545), Farrukhabad (27KTS, 1545),
- East Uttar Pradesh Hamirpur (24KTS,2130), Fatehpur(38KTS, 2130), Raibareily (40KTS, 2345), Prayagraj (30KTS, 0045), Pratapgarh (25KTS, 0115), Mirzapur (33KTS, 0215), Chandauli (37KTS, 0215),
- Bihar- Jamui (24KTS, 1830), Katihar (26KTS, 2030), Banka (24KTS, 1945)
- ◆ Jharkhand- Bokaro (32KTS, 0145), Latehar (24KTS, 1300),
- Odisha- Mayurbhanj (58KTS, 1145), Bhadrak (37KTS, 1215), Balasore (31KTS, 1200), Sonepur (28KTS, 1400)
- ✤ Gangetic West Bengal West Medinipur (33kts, 1700), South_Twenty_Four_Parganas (24kts, 1615),
- Chhattisgarh- Koriya (25KTS, 0930)
- East MP- Singrauli (32kts, 0245), Rewa (23kts, 0045), Sagar (28kts, 2200),
- West MP-Guna (27KTS,2000), Sehore (24KTS, 0315)
- Vidarbha- Wardha(24KTS, 1215)
- Coastal Andhra Pradesh & Yanam East Godawari (37KTS, 1300)
- Assam & Meghalaya- West Garo Hills (30KTS, 0000), KAMRUP_METROPOLITAN (27KTS, 0300), CHIRANG (23KTS, 2300)

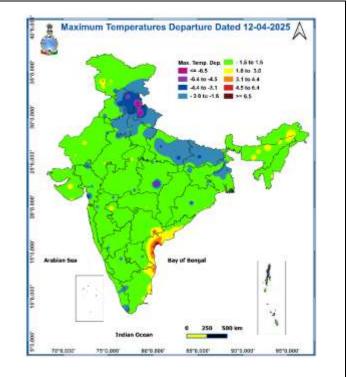
Temperature observations during past 24 hours till 0830 hours IST of today:

- Yesterday, the Maximum Temperatures have risen by 4-7°C over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Coastal Andhra Pradesh & Yanam, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; by 2-4°C over Uttar Pradesh, Bihar, West Bengal & Sikkim, Jharkhand, Gujarat Region, Odisha, Konkan & Goa, Telangana and have fallen by 1-4°C over Uttarakhand, Madhya Pradesh, Himachal Pradesh, Rajasthan, Kerala & Mahe and no significant change over rest parts of the country.
- Yesterday, Maximum Temperatures were in the range of 39-42°C at a few places over Gujarat, south Rajasthan, Madhya Pradesh, Interior Maharashtra, central Chhattisgarh, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema; at isolated places over Odisha, Tamil Nadu, Puducherry & Karaikal. Yesterday, the highest maximum temperature of 42.3°C was reported at Rajkot (Saurashtra & Kutch) over the country. Yesterday, the highest maximum temperature of 42.3°C was reported at Rajkot (Saurashtra & Kutch) over the country. (Fig.1)
- Yesterday, Maximum Temperatures were markedly below normal (5.1°C or more) at isolated places over Coastal Andhra Pradesh & Yanam; appreciably above normal (3.1°C to 5.0°C) at a few places over Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at a few places over West Rajasthan, Assam and Coastal Karnataka; at isolated places Saurashtra & Kutch, Odisha and Arunachal Pradesh. These were markedly below normal (-5.1°C or less) at isolated places over Himachal Pradesh, Punjab; appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Uttar Pradesh, Bihar, Gangetic West Bengal and Andaman & Nicobar Islands; below normal (-3.0°C to -1.6°C) at many places over North Interior Karnataka; at a few places Haryana-Chandigarh-Delhi, Jharkhand and South Interior Karnataka; at isolated places over West Uttar Pradesh, Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Manipur and Kerala & Mahe and normal over rest parts of the country. (Fig. 2)

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

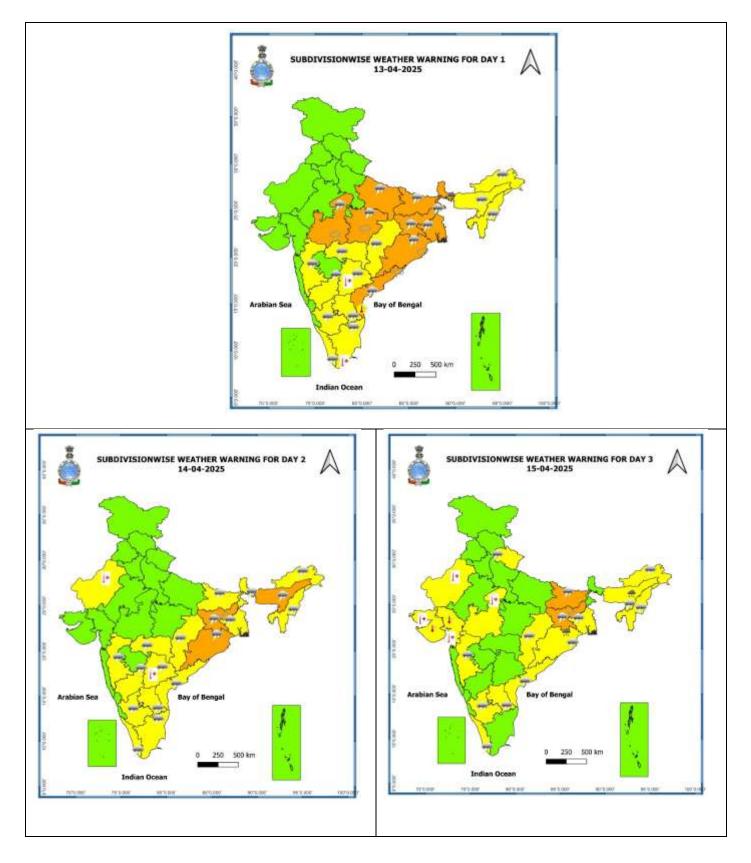


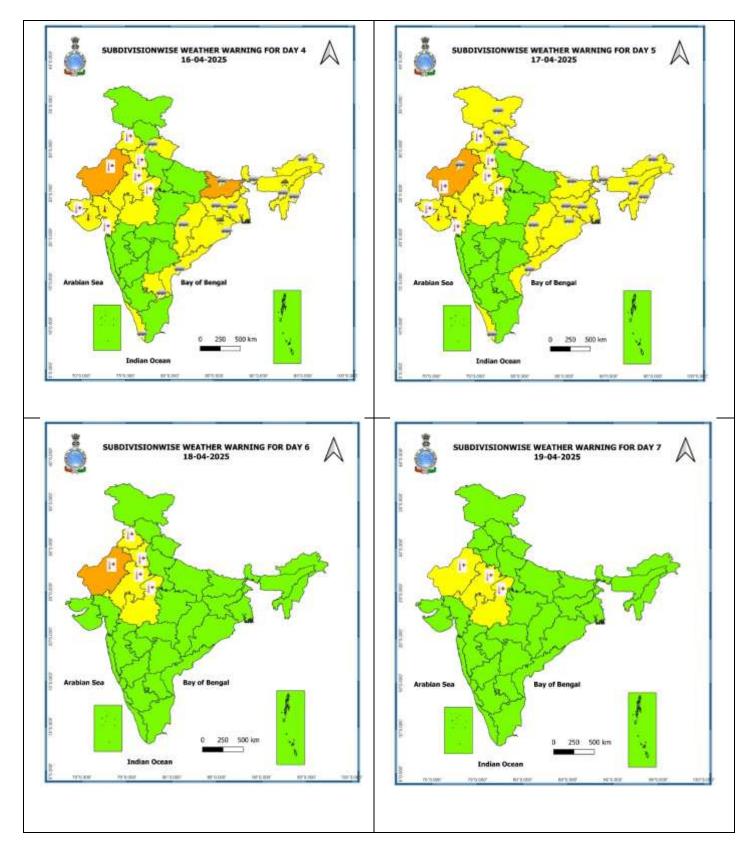


7 Days Rainfall Forecast								
S. No.	Subdivision	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr
5. NO.	500017151011	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	SCT	SCT	SCT	FWS	SCT	SCT
2	ARUNACHAL PRADESH	FWS	SCT	SCT	SCT	FWS	FWS	SCT
3	ASSAM & MEGHALAYA	FWS	FWS	FWS	FWS	WS	WS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	SCT	SCT	FWS	FWS	FWS	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	SCT	SCT	FWS	FWS	FWS	FWS
6	GANGETIC WEST BENGAL	FWS	SCT	SCT	SCT	SCT	SCT	SCT
7	ODISHA	SCT	SCT	FWS	FWS	SCT	SCT	SCT
8	JHARKHAND	SCT	FWS	FWS	SCT	SCT	SCT	SCT
9	BIHAR	SCT	SCT	SCT	ISOL	SCT	SCT	SCT
10	EAST UTTAR PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	ISOL
11	WEST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY	ISOL	ISOL
12	UTTARAKHAND	DRY	DRY	ISOL	ISOL	SCT	FWS	FWS
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
15	HIMACHAL PRADESH	DRY	DRY	DRY	ISOL	ISOL	SCT	FWS
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	DRY	ISOL	ISOL	FWS	FWS
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	DRY						
19	WEST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
21	GUJARAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
25	MARATHAWADA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
26	VIDARBHA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
27	CHHATTISGARH	ISOL						
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	SCT	SCT	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
30	RAYALASEEMA	ISOL						
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL						
32	COASTAL KARNATAKA	ISOL						
33	NORTH INTERIOR KARNATAKA	ISOL						
34	SOUTH INTERIOR KARNATAKA	ISOL						
35	KERALA & MAHE	SCT	FWS	FWS	FWS	FWS	FWS	SCT
36	LAKSHADWEEP	SCT	DRY	DRY	DRY	DRY	DRY	DRY

• 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 https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php

Weather forecast over Delhi/NCR during 13th to 16th Apr. 2025

Past Weather:

There has been rise in minimum temperature upto 02°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 34 to 35 °C and 19 to 21 °C respectively. The minimum temperature was near normal and maximum temperature was below normal upto 02°C at most places. Mainly clear sky conditions with predominant surface wind from the southeast/east direction with wind speeds less than 10 to 14 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind speed less than 08 kmph from the southeast direction prevailed over the region in the forenoon today.

Weather Forecast:

13.04.2025: Mainly clear sky. The maximum temperature over Delhi is likely to be in the range of 36 to 38°C. The predominant surface wind will likely be from the east direction with a wind speed of less than 12 kmph till evening. It would decrease becoming less than 08 kmph from the southeast direction during the night.

14.04.2025: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 38 to 40°C and 21 to 23°C respectively. The predominant surface wind will likely be from the southeast direction with a wind speed of 08-10 kmph during morning hours. The wind speed will gradually decrease thereafter becoming 06-08 kmph from the southeast direction during the afternoon. It will increase becoming less than 12 kmph from the east direction during evening and night.

15.04.2025: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 39 to 41°C and 22 to 24°C respectively. The predominant surface wind will likely be from the southeast direction with a wind speed of 12-16 kmph during morning hours. The wind speed will gradually decrease becoming 10-14 kmph from the southeast direction in the afternoon. It will increase becoming less than 18 kmph from the southeast direction during evening and night.

16.04.2025: Mainly clear sky becoming partly cloudy sky from evening. 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 40 to 42°C and 23 to 25°C respectively. The predominant surface wind will likely be from the southeast direction with a wind speed of 14-16 kmph during morning hours. The wind speed will gradually decrease becoming 10-12 kmph from the northeast direction in the afternoon. It will increase becoming less than 18 kmph from the southeast direction during evening and night.

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam and Madhya Pradesh on 13th; Jharkhand on 14th & 15th April.

Impact expected:

- > 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:

- > 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 to severe heat wave conditions at West Rajasthan during 14th-19th April.

Red alert Areas

- > Very high likelihood of developing heat illness and heat stroke in all ages.
- > Extreme care needed for vulnerable people.

Orange 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.

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.

Agromet advisories for likely impact of Hailstorm / Heavy Rainfall / Gusty Winds / Heatwave

- In Odisha, Jharkhand, Madhya Pradesh and Coastal Andhra Pradesh, immediately shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields to avoid the adverse impact of likely hailstorm. Use hail net and hail caps to prevent mechanical damage in orchards due to hailstorms.
- In Arunachal Pradesh, Meghalaya, Sub Himalayan West Bengal & Sikkim and Odisha, immediately harvest the mature crops, fruits and vegetables and shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Also make provision to drain out excess water from standing crop and vegetable fields.
- In West Rajasthan, Gujarat, Telangana and North Tamil Nadu, apply light and frequent irrigation to standing crops in the evening to protect them from heat waves.
- > 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

		GENDS	1.5		
अंडमान और निकोबार द्वीप	समूह		1. Andaman & Nicobar Islands		
2. अरुणाचल प्रदेश	1.2020		2. Arunachal Pradesh		
3. असम और मेघालय		3. Assam & Meghalaya			
4. नागालैंड, मणिपुर, मिजोरम	4. Nagaland, Manipur, Mizoram & Trip				
5. उप-हिमालयी पश्चिम बंगाल	5. Sub-Himalayan West Bengal & Sikkin				
6. गंगीय पश्चिम बंगाल	6. Gangetic West Bengal				
7. ओडिशा	S		7. Odisha		
8. झारखंड	8. Jharkhand				
9. बिहार	Eme		9. Bihar		
10. पूर्वी उत्तर प्रदेश	15		10. East Uttar Pradesh		
11. पश्चिम उत्तर प्रदेश	414 12		11. West Uttar Pradesh		
12. उत्तराखंड	- 2 m 11		12. Uttarakhand		
13. हरियाणा, चंडीगढ़ और दिल	17 5 5 6	m and	13. Haryana, Chandigarh & Delhi		
14. पंजाब	18231	59 3	14. Punjab		
15. हिमाचल प्रदेश	man 125 pm	it is the	15. Himachal Pradesh		
16. जम्मू और कश्मीर और लद्द		8 6 6	16. Jammu & Kashmir and Ladakh		
17. पश्चिम राजस्थान	22 Township	Start Market	17. West Rajasthan		
18. पूर्वी राजस्थान	26 26 L	575	18. East Rajasthan		
19. पश्चिम मध्य प्रदेश	23 24 25	5	19. West Madhya Pradesh		
20. पूर्वी मध्य प्रदेश	29 5	20. East Madhya Pradesh			
21. गुजरात	23 2 28		21. Gujarat		
22. सौराष्ट्र	32 34 30		22. Saurashtra		
23. कोंकण और गोवा	34	1	23. Konkan & Goa		
24. मध्य महाराष्ट्र		24. Madhya Maharashtra			
25. मराठवाड़ा	35 31	11	25. Marathwada		
26. विदर्भ	36	1	26. Vidarbha		
27. छत्तीसगढ़		27. Chhattisgarh			
28. तटीय आंध्र प्रदेश और यनग	н		28. Coastal Andhra Pradesh & Yanam		
29. तेलंगाना	29. Telangana				
30. रायलसीमा	30. Rayalaseema				
31. तमिलनाडु, पुडुचेरी और क	राईकल		31. Tamilnadu, Puducherry & Karaikal		
31. तमिलनाडु, पुडुचेरी और क 32. तटीय कर्नाटक	राईकल		31. Tamilnadu, Puducherry & Karaikal 32. Coastal Karnataka		
32. तटीय कर्नाटक 33. आतंरिक उत्तरी कर्नाटक			31. Tamilnadu, Puducherry & Karaikal 32. Coastal Karnataka 33. North Interior Karnataka		
32. तटीय कर्नाटक 33. आतंरिक उत्तरी कर्नाटक 34. आतंरिक दक्षिणी कर्नाटक			31. Tamilnadu, Puducherry & Karaikal 32. Coastal Karnataka 33. North Interior Karnataka 34. South Interior Karnataka		
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* 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)





National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

tain/ Snow *	Heavy: 64.5 to 115.5 mm/cm * 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 ≥6.5° C
Heat Wave	(b). Based on Actual maximum temperature
	Heat Wave: When actual maximum temperature ≥45°C.
	Severe Heat Wave: When actual maximum temperature ≥47°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
Varm 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.
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
Cold Day	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal =4.5 °C to -6.4 °C. Severe Cold Day: Maximum Temperature Departure from normal ≤ -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
nunderstorm	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.
-	Ice deposits on ground
Frost	Air temperature s4°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
	Very Severe: Wind speed >87 kmph
	Effect of various waves in the sea over specific area
Sea State	Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre 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)
Cyclone	Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots) Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
Cyclone	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.