

## Current Temperature Status and Heat Wave Warning

**Dated: 08<sup>th</sup> April, 2024**

**Time of Issue: 1630 Hrs IST**

### ♦ **Observed Temperature Scenario:-**

#### **Maximum Temperature & its departure (Yesterday) (Annexure 1):-**

- Yesterday, maximum temperatures were in the range of 42-44°C over many parts of Rayalaseema; in isolated pockets over south coastal Andhra Pradesh & North Interior Karnataka and in the range of 40-42°C over many parts of Telangana & north Tamil Nadu, in isolated pockets over Kerala, Coastal Andhra Pradesh, Madhya Maharashtra, Marathwada & southwest Madhya Pradesh. They were above normal by 2-5°C over the region.
- Yesterday, the maximum temperature exceeded 98<sup>th</sup> percentile over some parts of Vidarbha, Madhya Maharashtra, South Interior Karnataka & south interior Odisha and in isolated pockets over Kerala, north Interior Tamil Nadu & Rayalaseema.
- **Yesterday's Highest Maximum Temperature on Plains:** 44.4°C at Anantapur (Rayalaseema).
- **Markedly above normal (5.1°C or more):-** NIL.
- **Appreciably above normal (3.1°C to 5.0°C):-** At many places over Sub-Himalayan Gangetic West Bengal & Sikkim; at a few places over Andhra Pradesh.
- **Above normal (1.6°C to 3.0°C):-** At most places over Interior Karnataka, Arunachal Pradesh; at many places over Assam & Meghalaya, Telangana, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe; at a few places over Rayalaseema; at isolated places over Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, West Rajasthan Haryana-Chandigarh-Delhi, Uttar Pradesh, Bihar, Madhya Maharashtra, Marathwada, Konkan & Goa Gujarat Region.

#### **Minimum Temperature & its departure (Today) (Annexure 2):-**

- **Markedly above normal (5.1°C or more):-** NIL.
- **Appreciably above normal (3.1°C to 5.0°C):-** At a few places over Sub-Himalayan West Bengal & Sikkim.
- **Above normal (1.6°C to 3.0°C):-** At most places over Gangetic West Bengal, Bihar, Jharkhand, Madhya Maharashtra, Marathwada, Coastal & North Interior Karnataka; at many places over Telangana, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha and Kerala & Mahe; at a few places over Chhattisgarh, Madhya Pradesh, Arunachal Pradesh and South Interior Karnataka; at isolated places over Rajasthan, East Uttar Pradesh, Gujarat Region, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

♦ **Heat wave conditions:-** Yesterday, **heat wave to severe heat wave conditions** prevailed in some parts of south Coastal Andhra Pradesh and **heat wave condition** in isolated pockets over Tamil Nadu, North Interior Karnataka, Rayalaseema & Telangana.

♦ **Warm night conditions:-** NIL.

♦ **Percentile Temperature (Annexure 3) :-**

♦ **Temperatures Recorded at 1430 Hours IST of Today, the 08<sup>th</sup> April, 2024 (Annexure 4) :-**

- **Anantapur (Rayalaseema)** recorded the highest temperature of 42.4°C.

♦ **Wind Speed & Relative Humidity Recorded at 1430 Hours IST of Today (Annexure 5) :-**

♦ **Maximum Temperatures Forecast :-**

- Gradual fall by about 2°C in maximum temperatures very likely over many parts of Northwest India during next 5 days.
- No significant change in maximum temperatures very likely over many parts of East India during next 24 hours and gradual rise by 3-5°C thereafter.
- Gradual fall by 2-4°C in maximum temperatures very likely over Maharashtra during next 5 days.
- No significant change in maximum temperatures very likely over rest parts of the country.
- The maximum temperature likely to exceed 98<sup>th</sup> percentile at isolated pockets over north Interior Tamil Nadu on 08<sup>th</sup> ; Kerala, & Interior Karnataka during 08<sup>th</sup> -11<sup>th</sup> and over Rayalaseema on 08<sup>th</sup> & 09<sup>th</sup> April, 2024.

## Hot Weather Warnings for Next 5 Days

### DAY-1:-

- ❖ Warm night very likely to prevail in isolated pockets over North Interior Karnataka.
- ❖ Heat wave conditions very likely in isolated pockets over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ❖ Hot and humid weather very likely to prevail over coastal areas of Gujarat State, Rayalaseema, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

### DAY-2:-

- ❖ Warm night very likely to prevail in isolated pockets over North Interior Karnataka.
- ❖ Heat wave conditions very likely in isolated pockets over North Interior Karnataka.
- ❖ Hot and humid weather very likely to prevail over coastal areas of Gujarat State, Rayalaseema, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

### DAY-3:-

- ❖ Hot and humid weather very likely to prevail over coastal areas of Gujarat State, Rayalaseema, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

### DAY-4:-

- ❖ Hot and humid weather likely to prevail over coastal areas of Gujarat State, Rayalaseema, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

### DAY-5:-

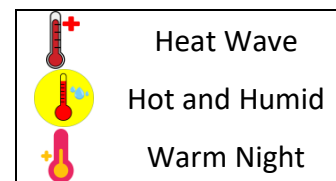
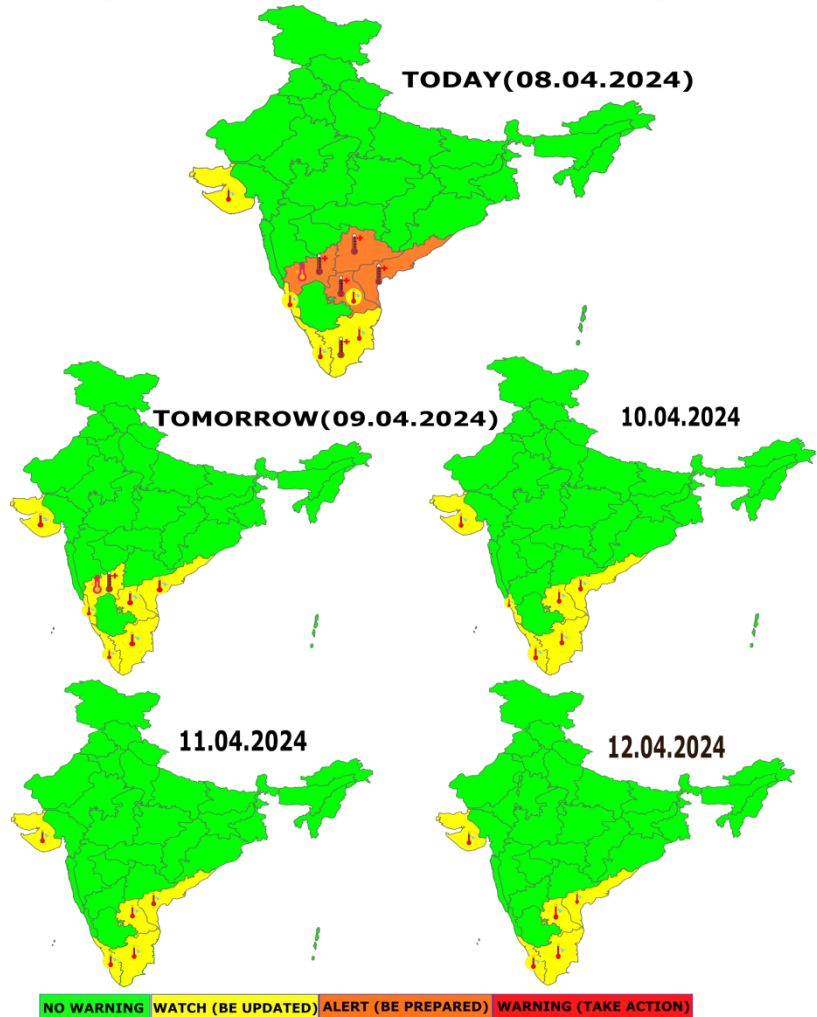
- ❖ Hot and humid weather likely to prevail over coastal areas of Gujarat State, Rayalaseema, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

### IMPACT & ACTION SUGGESTED:

#### Yellow alert Areas:

1. Moderate temperature, Heat is tolerable for general public but moderate health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
2. Avoid heat exposure, Wear light weight, light coloured, loose, cotton clothes, Cover your head, Use a cloth, hat or umbrella.

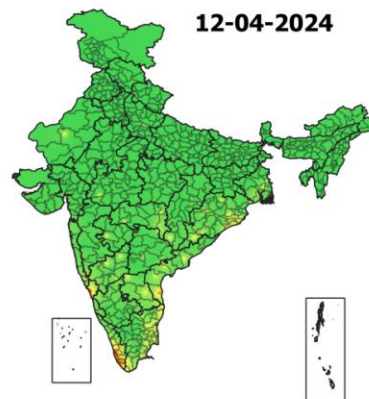
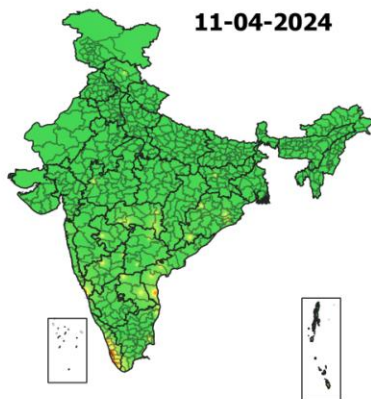
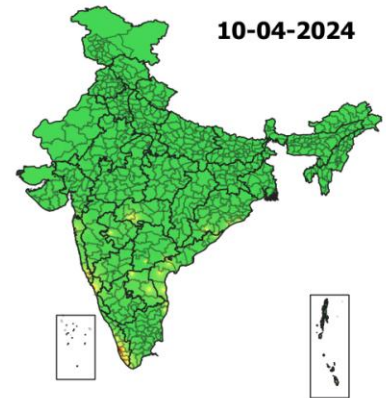
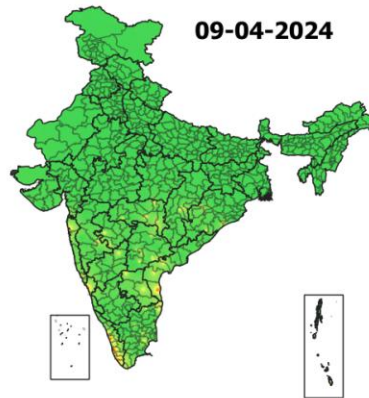
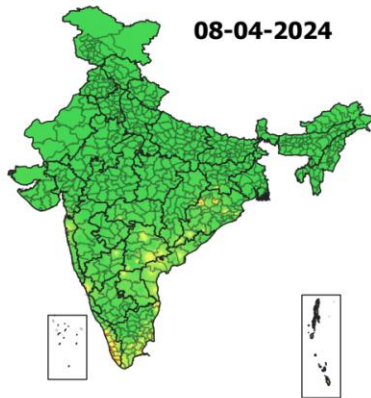
### 5 DAYS HOT WEATHER WARNING MAP



#### Orange alert Areas:

1. 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.
2. Drink sufficient water- even if not thirsty, Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

## HEAT INDEX (EXPERIMENTAL FORECAST) DATED 08-04-2024



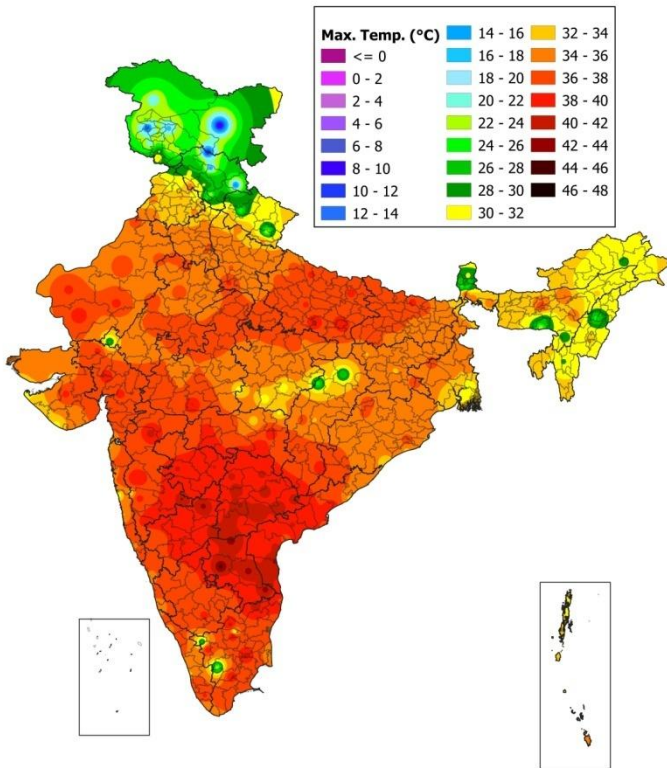
### HEAT INDEX (°C)

- Less Than 40
- 40 - 50
- 50 - 60
- Above 60

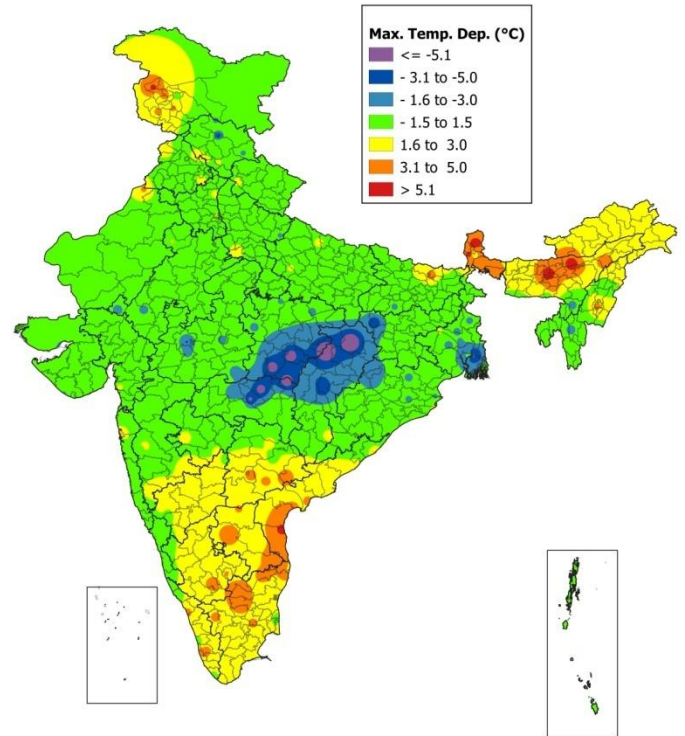
**NOT VALIDATED OVER INDIA**

Annexure 1

Maximum Temperature Dated 07/04/2024



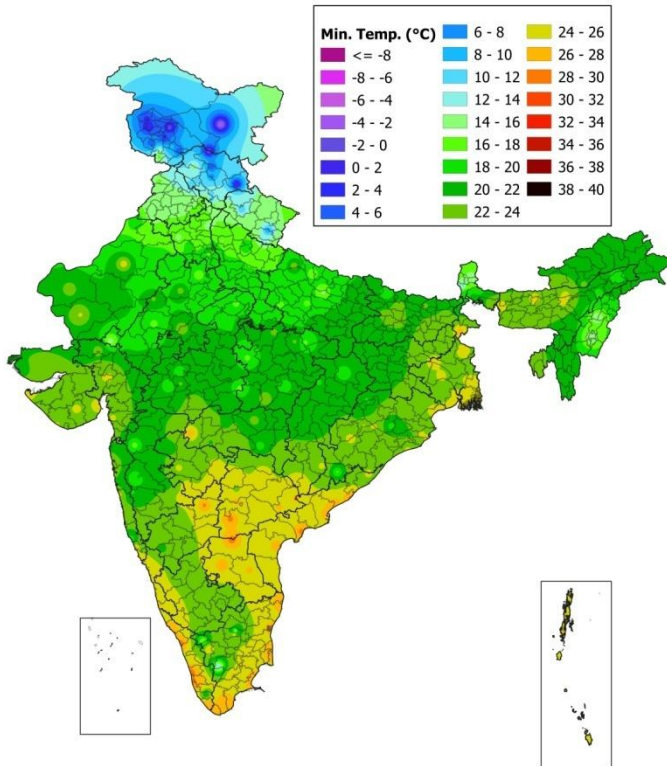
Max Temperature Departure Dated 07/04/2024



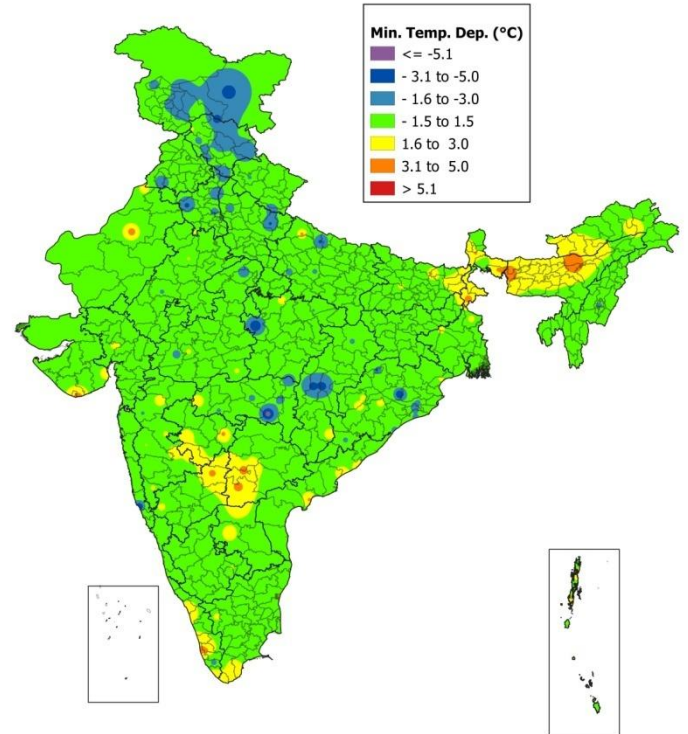


Annexure 2

Minimum Temperature Dated 08/04/2024

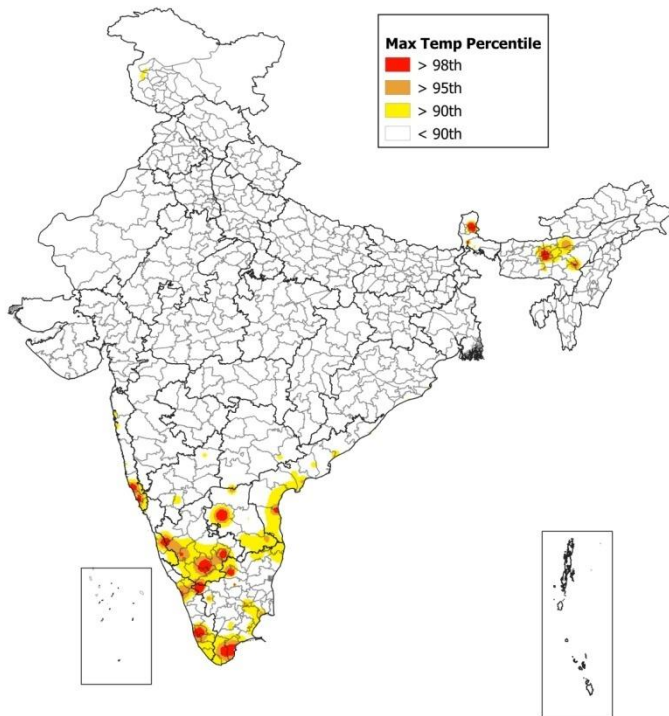


Min Temperature Departure Dated 08/04/2024

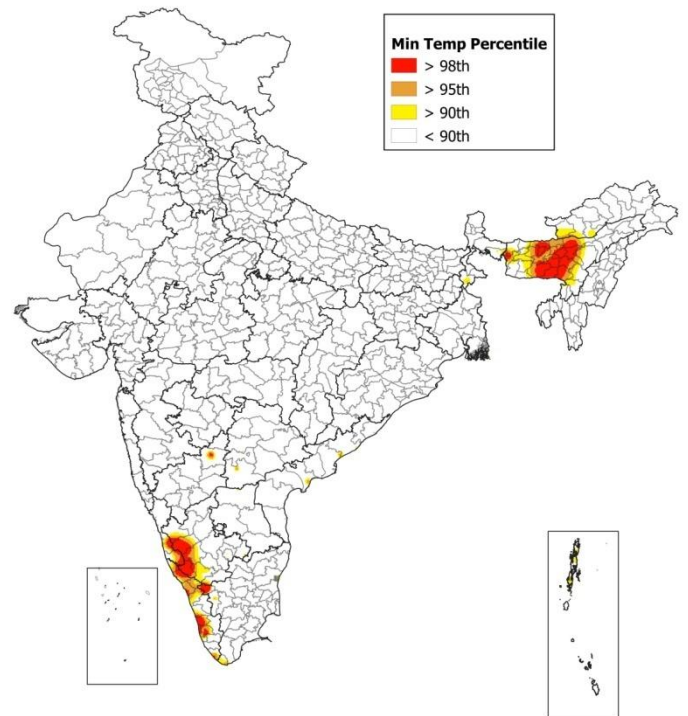


Annexure 3

**Max Temp Percentile Dated 07/04/2024**

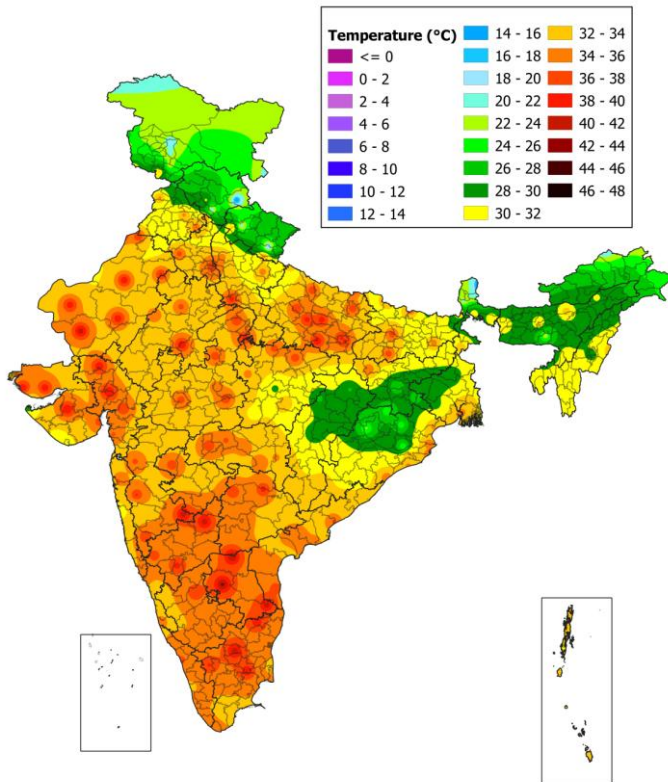


**Min Temp Percentile Dated 08/04/2024**

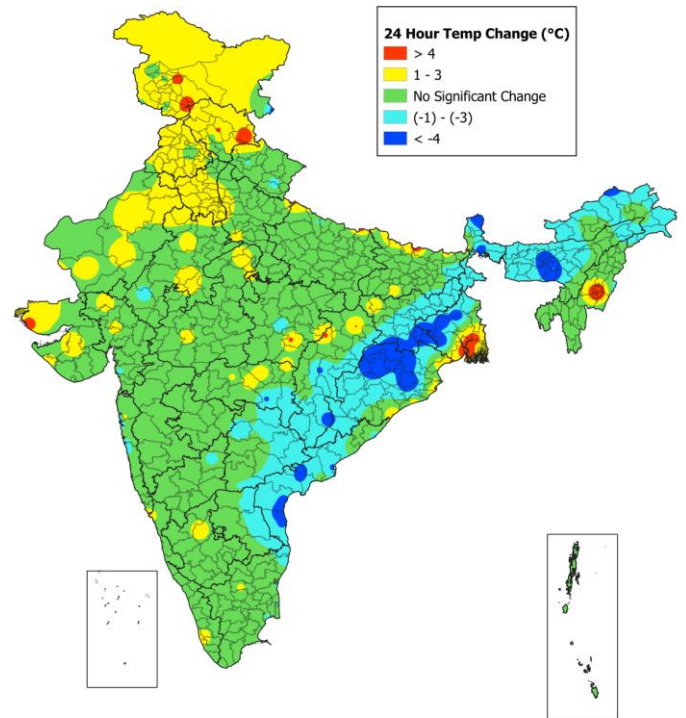


## Annexure 4

**Observed Temperature at 1430 hrs IST Dated 08/04/2024**



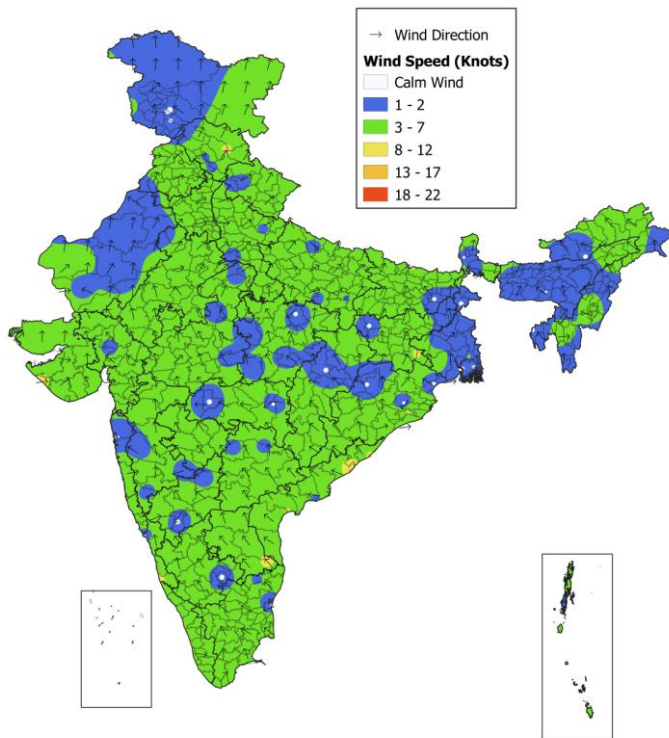
**24 hrs Temperature Change at 1430 hrs IST Dated 08/04/2024**



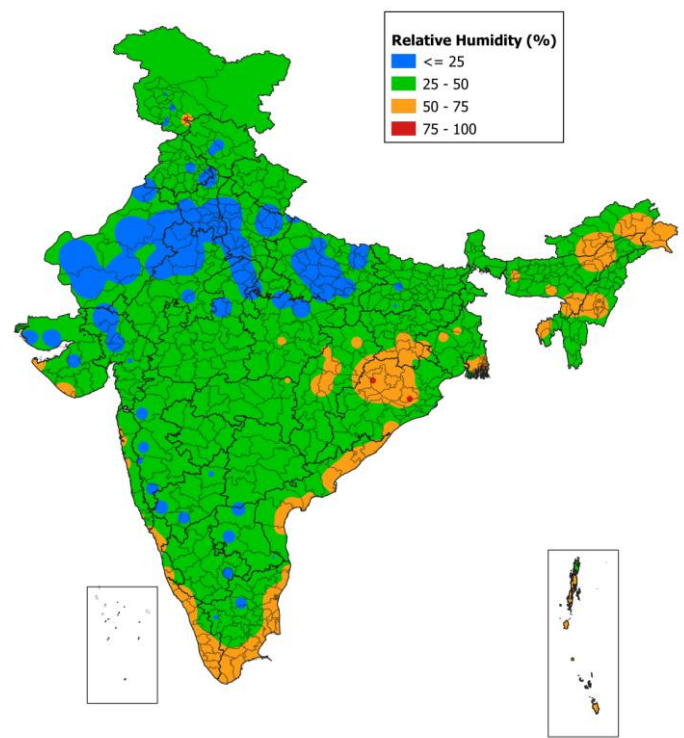


## Annexure 5

**Wind Map at 1430 hrs IST Dated 08/04/2024**



**Relative Humidity at 1430 Hrs IST Dated 08/04/2024**



For Districtwise heat wave warning visit:

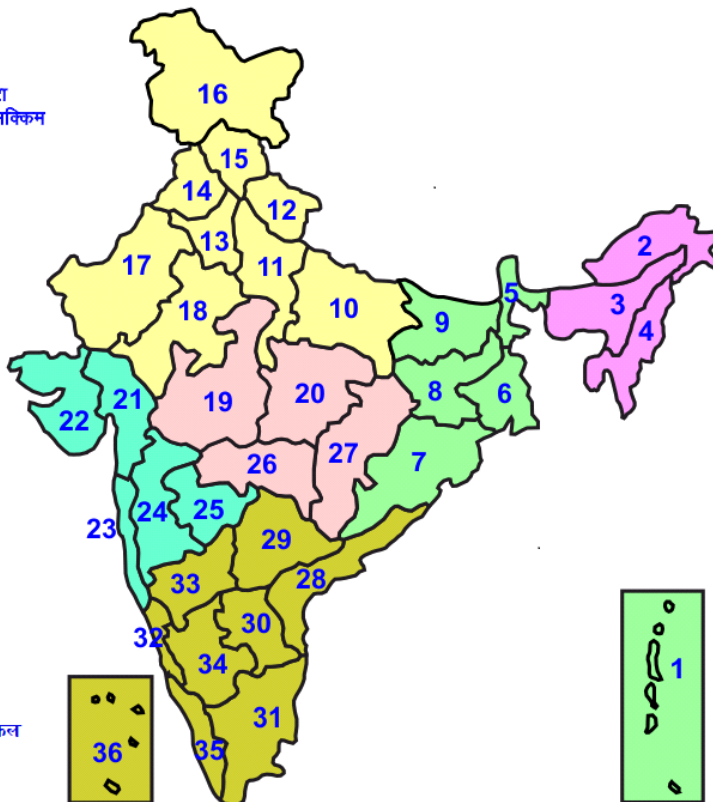
<https://mausam.imd.gov.in/responsive/districtWiseHeatwaveWarning.php>

For GIS Based Heat Wave Warning visit:

[http://103.215.208.18/dwr\\_img/GIS/heatwave.html](http://103.215.208.18/dwr_img/GIS/heatwave.html)

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं 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. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & 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. Marathawada
26. Vidharbha
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

### WARNING

WARNING (TAKE ACTION)
ALERT ( BE PREPARED)
WATCH (BE UPDATED)
NO WARNING ( NO ACTION)

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

When maximum temperature of a station reaches  $\geq 40^\circ \text{C}$  for plains and  $\geq 30^\circ \text{C}$  for hilly regions

(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^\circ \text{C}$  to  $6.4^\circ \text{C}$ .

Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^\circ \text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^\circ \text{C}$ .

Severe Heat Wave: When actual maximum temperature  $\geq 47^\circ \text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^\circ \text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^\circ \text{C}$

When maximum temperature remains  $40^\circ \text{C}$

Warm Night: When minimum temperature departure  $4.5^\circ \text{C}$  to  $6.4^\circ \text{C}$ .

Severe Warm Night: When minimum temperature departure  $> 6.4^\circ \text{C}$ .