

## Current Temperature Status and Heat Wave Warning

**Dated: 19<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 42-43°C at many places over Marathwada, Telangana, Rayalaseema; at a few places over Madhya Maharashtra, Odisha and at isolated places over Gujarat Region, Vidarbha; 40-42°C at a few places over Saurashtra & Kutch, Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Jharkhand, East Uttar Pradesh; at isolated places over West Rajasthan, Tamil Nadu, Puducherry & Karaikal. These were above normal by 2-3°C over many parts of the above areas.
- **Yesterday's Highest Maximum Temperature on Plains:** 44.7°C at Nandyal (Rayalaseema).
- **Markedly above normal (5.1°C or more):-** NIL.
- **Appreciably above normal (3.1°C to 5.0°C):-** At many places over Gangetic West Bengal;.
- **Above normal (1.6°C to 3.0°C):-** At many places over Haryana-Chandigarh-Delhi, Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Interior Karnataka, Nagaland, Manipur, Mizoram & Tripura, Vidarbha, Kerala & Mahe; at a few places over Odisha, Uttarakhand, East Rajasthan, West Madhya Pradesh, Jharkhand, West Uttar Pradesh, Gujarat state, Arunachal Pradesh; at isolated places over Assam & Meghalaya, East Uttar Pradesh, Chhattisgarh, East Madhya Pradesh.

#### **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 isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Madhya Maharashtra.
- **Above normal (1.6°C to 3.0°C):-** At most places over Konkan & Goa and Kerala & Mahe; at many places over Gujarat state, Marathwada and North Interior Karnataka; at a few places over West Bengal & Sikkim, Telangana, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal; at isolated places over Himachal Pradesh, East Uttar Pradesh, West Madhya Pradesh, Rajasthan, Vidarbha, Assam & Meghalaya, Odisha, Jharkhand, Rayalaseema and Andaman & Nicobar Islands.

♦ **Heat wave conditions:-** Yesterday, **Heat Wave conditions** prevailed in some pockets over Gangetic West Bengal and Odisha; in isolated pockets over Telangana, Rayalaseema and Saurashtra & Kutch.

♦ **Warm night conditions:-** **Warm Night conditions** prevailed in isolated pockets over Saurashtra & Kutch, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Rayalaseema.

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

♦ **Temperatures Recorded at 1430 Hours IST of Today, the 19<sup>th</sup> April, 2024 (Annexure 4) :-**

- Chandrapur (**Vidarbha**) recorded the highest temperature of 43.6°C.

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

♦ **Maximum Temperatures Forecast :-**

- Rise in maximum temperatures by about 2°C very likely over East India during next 3 days and no significant change thereafter.
- No significant change in maximum temperatures very likely over rest parts of the country.

## Hot Weather Warnings for Next 5 Days

### DAY-1:-

- ❖ Hot and humid weather very likely to prevail over Saurashtra & Kutch, Sub-Himalayan West Bengal, Konkan & Goa, Madhya Maharashtra, Kerala & Mahe.
- ❖ Heat wave conditions in some parts with severe heat wave conditions very likely to prevail in isolated pockets over Gangetic West Bengal; Heat wave to severe heat wave conditions in isolated pockets over Odisha; heat wave conditions in isolated pockets over Jharkhand, interior Tamil Nadu, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- ❖ Warm Night conditions very likely to prevail in isolated pockets over East Uttar Pradesh, Odisha, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Rayalaseema.

### DAY-2:-

- ❖ Hot and humid weather very likely to prevail over Sub-Himalayan West Bengal, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ Heat wave conditions in some parts with severe heat wave conditions very likely to prevail in isolated pockets over Gangetic West Bengal; Heat wave to severe heat wave conditions in isolated pockets over Odisha; heat wave conditions in isolated pockets over Bihar and Jharkhand.
- ❖ Warm Night conditions very likely to prevail in isolated pockets over East Uttar Pradesh.

### DAY-3:-

- ❖ Hot and humid weather very likely to prevail over Sub-Himalayan West Bengal, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ Heat wave conditions in some parts with severe heat wave conditions very likely to prevail in isolated pockets over Gangetic West Bengal; heat wave conditions in isolated pockets over Bihar, Jharkhand and Odisha.

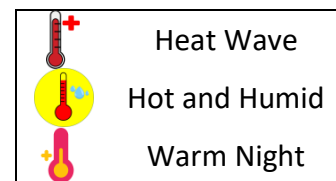
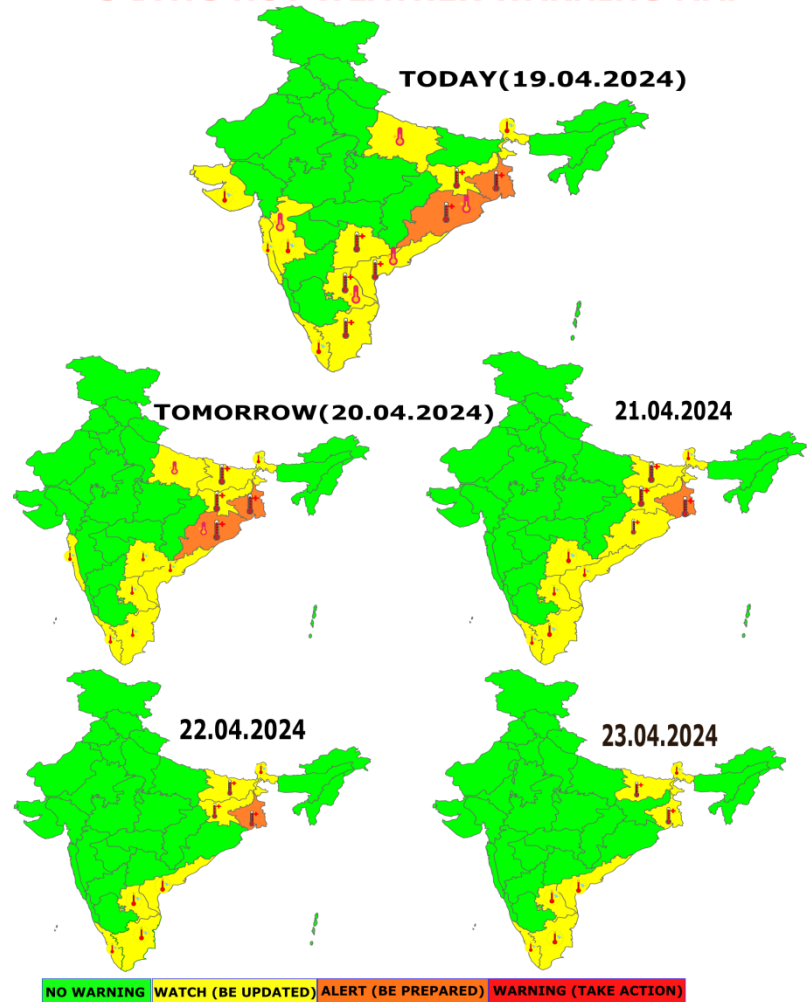
### DAY-4:-

- ❖ Hot and humid weather likely to prevail over Sub-Himalayan West Bengal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ Heat wave conditions in some parts with severe heat wave conditions likely to prevail in isolated pockets over Gangetic West Bengal; heat wave conditions in isolated pockets over Bihar and Jharkhand.

### DAY-5:-

- ❖ Hot and humid weather likely to prevail over Sub-Himalayan West Bengal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ Heat wave conditions likely to prevail in isolated pockets over Gangetic West Bengal and Bihar.

## 5 DAYS HOT WEATHER WARNING MAP



### IMPACT & ACTION SUGGESTED:

#### Yellow alert Areas:

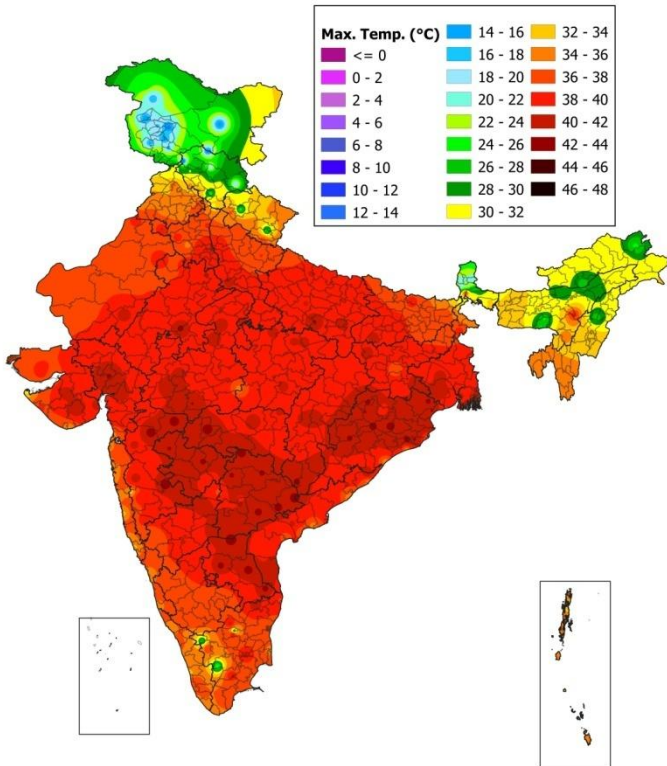
1. Moderate temperature, Heat is tolerable for general public but moderate health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
2. Avoid heat exposure, Wear light weight, light coloured, loose, cotton clothes, Cover your head, Use a cloth, hat or umbrella.

#### Orange alert Areas:

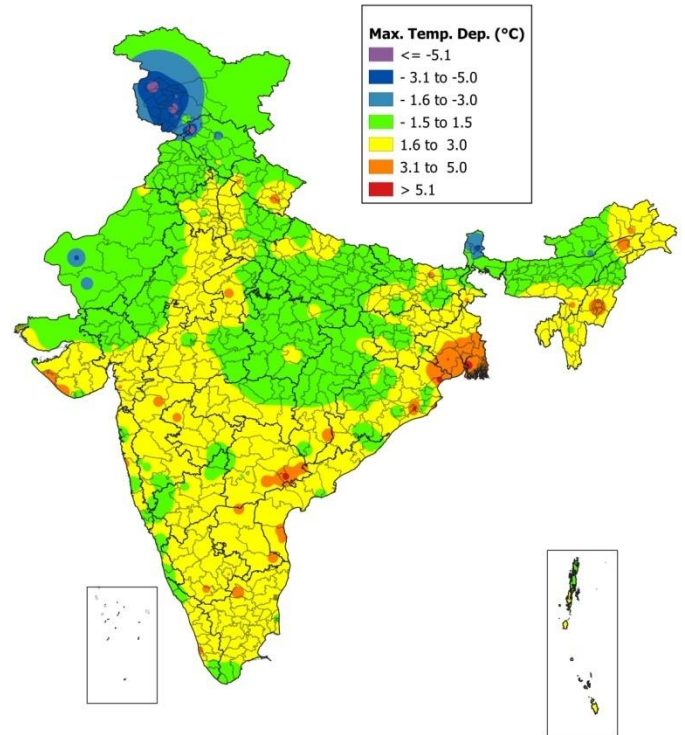
1. High temperature, Increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work. High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
2. Drink sufficient water- even if not thirsty, Use ORS,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

Annexure 1

Maximum Temperature Dated 18/04/2024

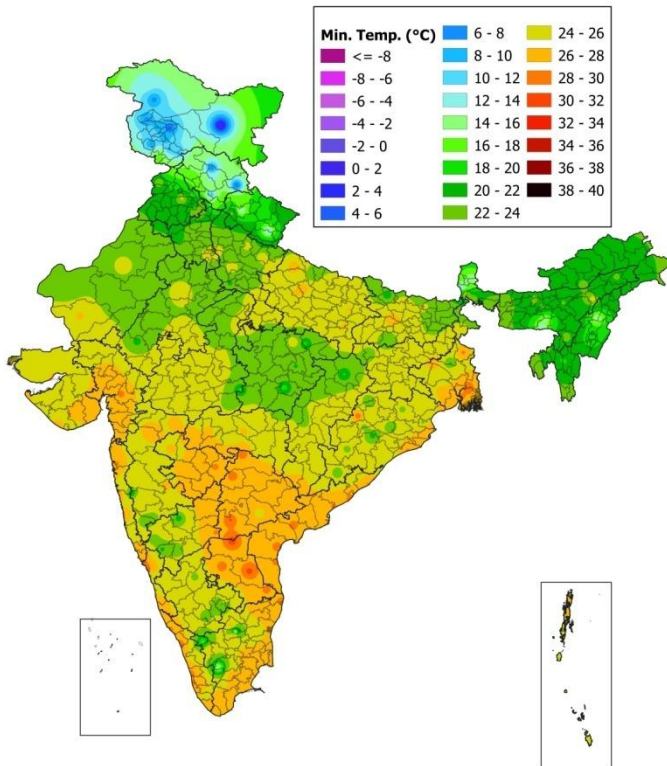


Max Temperature Departure Dated 18/04/2024

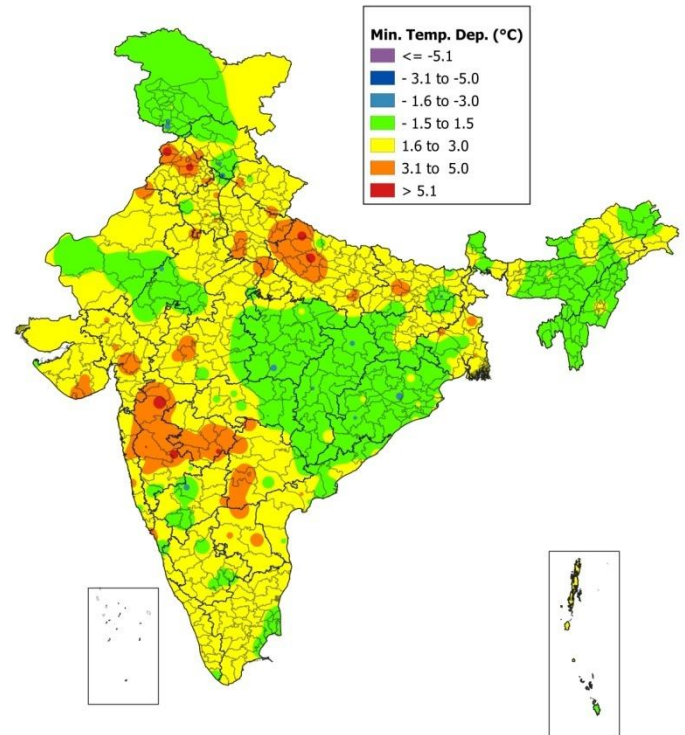


## Annexure 2

**Minimum Temperature Dated 19/04/2024**



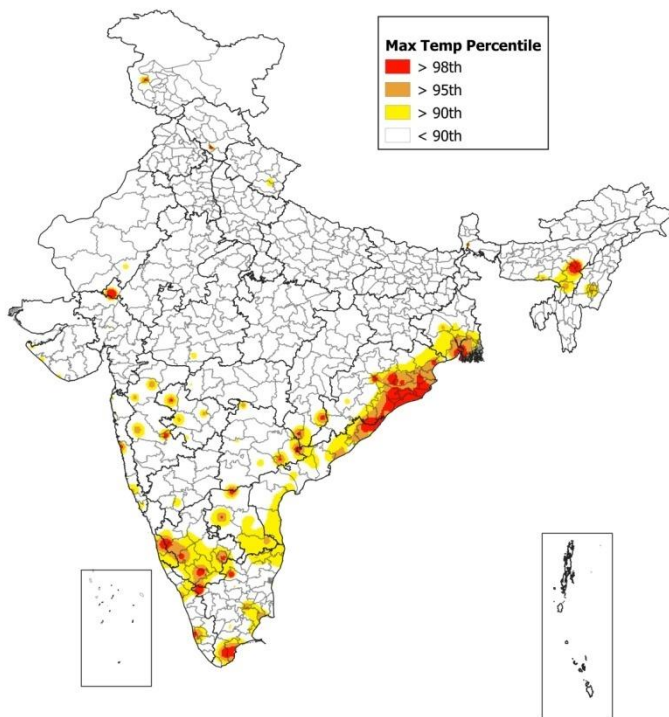
**Min Temperature Departure Dated 19/04/2024**



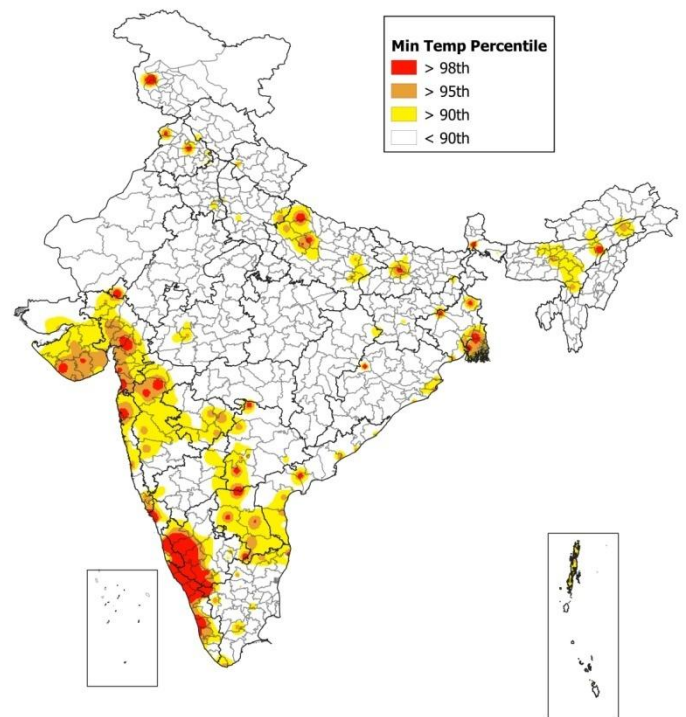


### Annexure 3

**Max Temp Percentile Dated 18/04/2024**

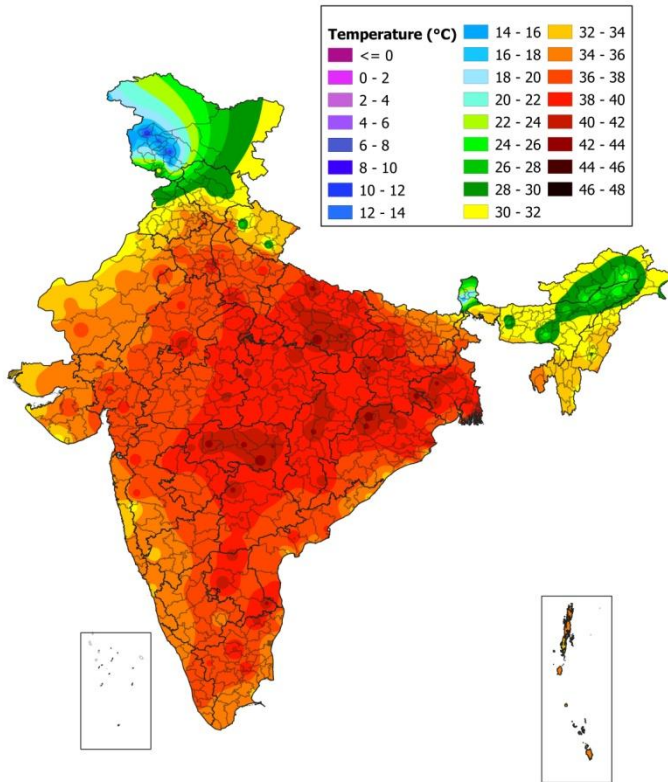


**Min Temp Percentile Dated 19/04/2024**

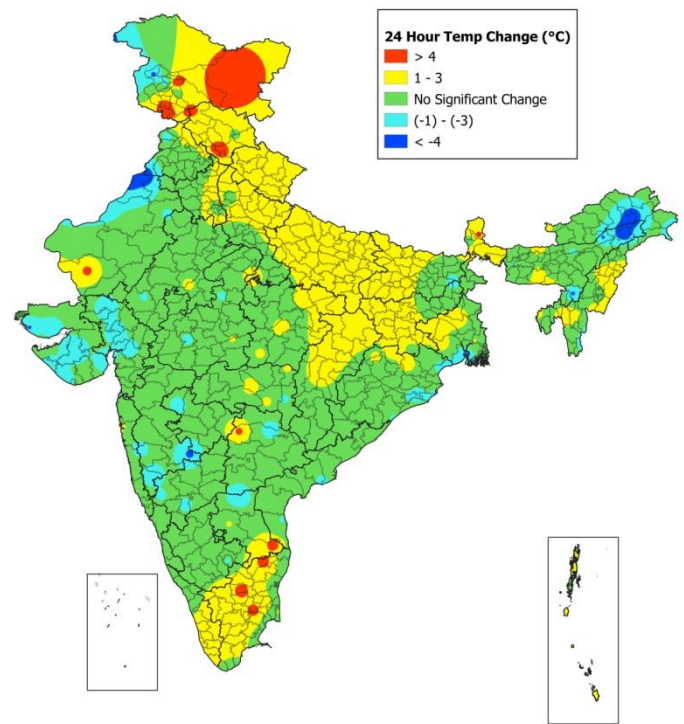


## Annexure 4

**Observed Temperature at 1430 hrs IST Dated 19/04/2024**

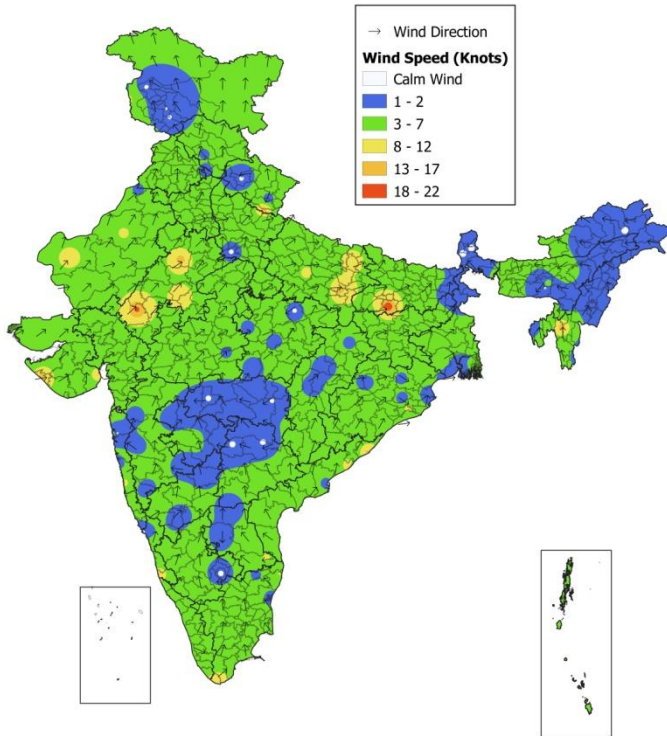


**24 hrs Temperature Change at 1430 hrs IST Dated 19/04/2024**

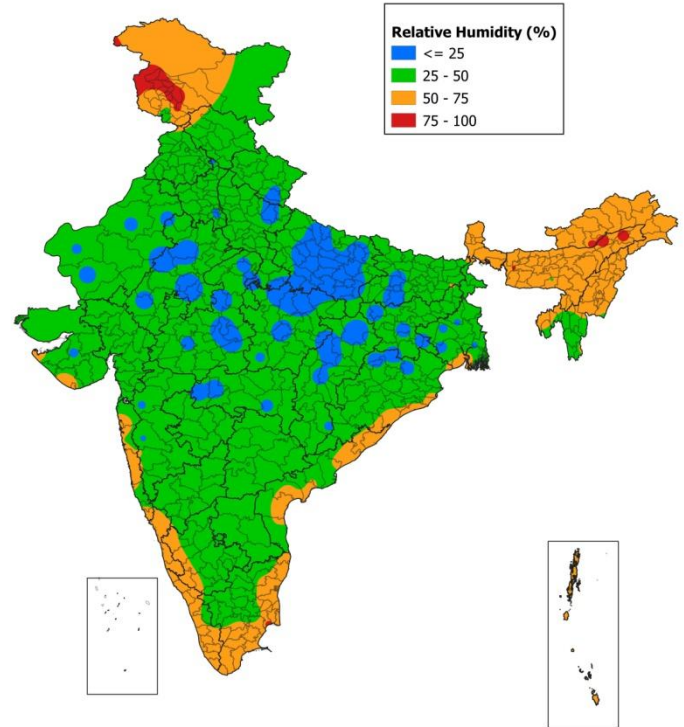


## Annexure 5

**Wind Map at 1430 hrs IST Dated 19/04/2024**



**Relative Humidity at 1430 Hrs IST Dated 19/04/2024**



For Districtwise heat wave warning visit:

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

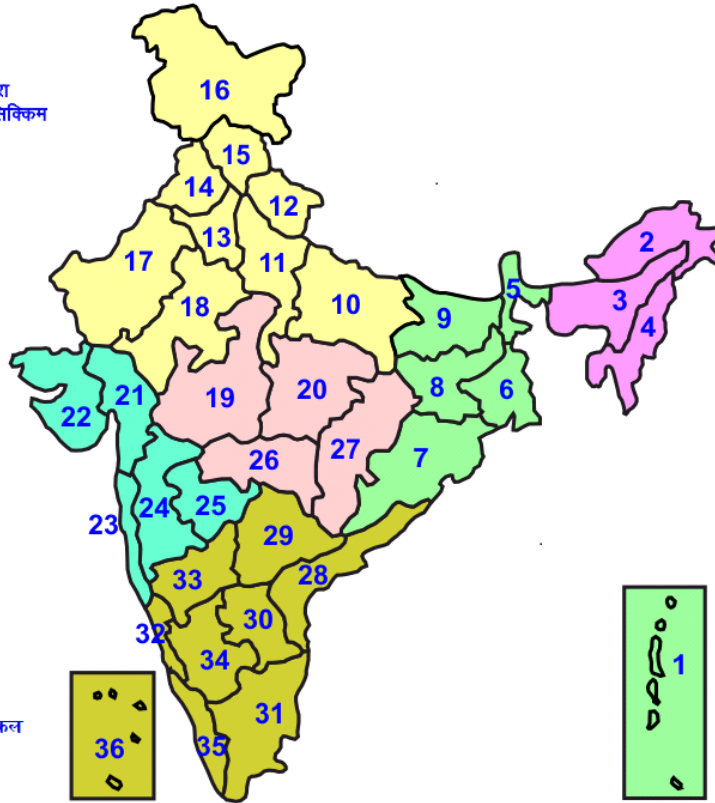
For GIS Based Heat Wave Warning visit:

[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 चंडिगढ़ 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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

### 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  $> 6.4^\circ \text{C}$ .

Heat Wave

Warm Night

**Hot and Humid:** When maximum temperatures remains  $3^\circ \text{C}$  above normal along with the above normal relative humidity.