

Dated: 14<sup>th</sup> May, 2025

Time of Issue: 0800 Hours IST

### Current Temperature Status and Warning for next 24 hours

**Heat Wave and Maximum Temperature Observed Yesterday (from 0830 hrs IST of 13<sup>th</sup> May to 0530 hrs IST of 14<sup>th</sup> May, 2025)**

❖ **Heat Wave Prevailed: NIL.**

#### Status of Maximum Temperatures:

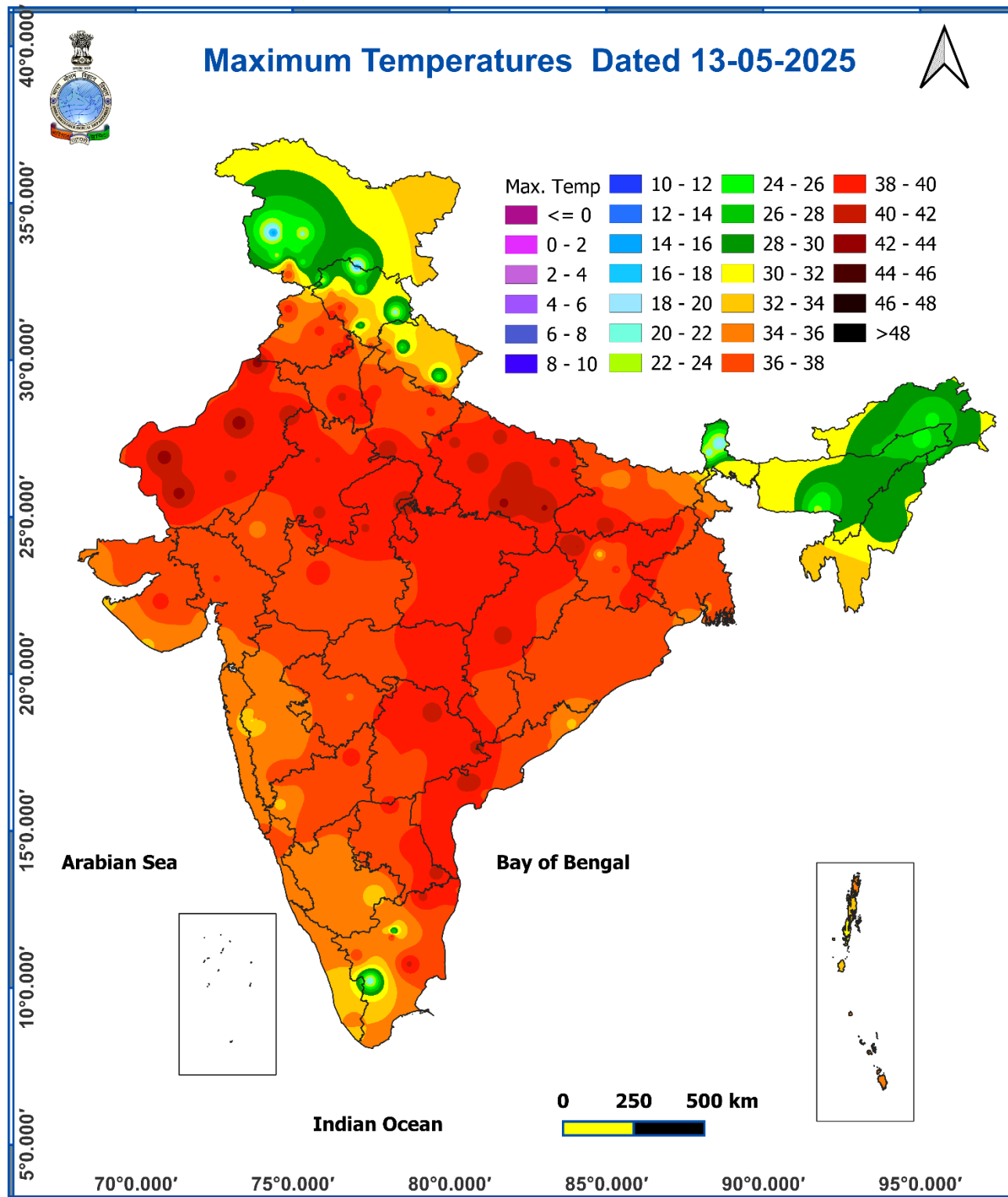
- ❖ Yesterday, Maximum Temperatures were in the range of **40-43°C** in most parts of the plains of the northwest India and East Madhya Pradesh; in the range **36-39°C** in many pockets over West, Central, East, south peninsular India Except Odisha and they were less than **36°C** elsewhere over remaining parts of the country. Yesterday, the highest **maximum temperature of 44.2°C** was reported at **Banda (East Uttar Pradesh)** over the country.
- ❖ Yesterday, **Maximum Temperature Departures (as on 13-05-2025)**: Maximum Temperatures were **above normal (1.6°C to 3.0°C)** at isolated places over Himachal Pradesh, Punjab, East Uttar Pradesh, Jharkhand, Haryana-Chandigarh-Delhi; **markedly below normal (-5.1°C or less)** at isolated places over Madhya Maharashtra, Marathwada, East Rajasthan; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Arunachal Pradesh, Assam & Meghalaya; **below normal (-1.6°C to -3.0°C)** at many places over Gujarat Region, Vidarbha; at isolated places over Saurashtra & Kutch, Madhya Pradesh, North Interior Karnataka, Telangana, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Rayalaseema and normal over rest parts of the country. **(Annexure 1)**

**Heat Wave Warnings for next 24 hours (From 0830 hrs IST of 14<sup>th</sup> May to 0830 hrs IST of 15<sup>th</sup> May, 2025) (Annexure 3)**

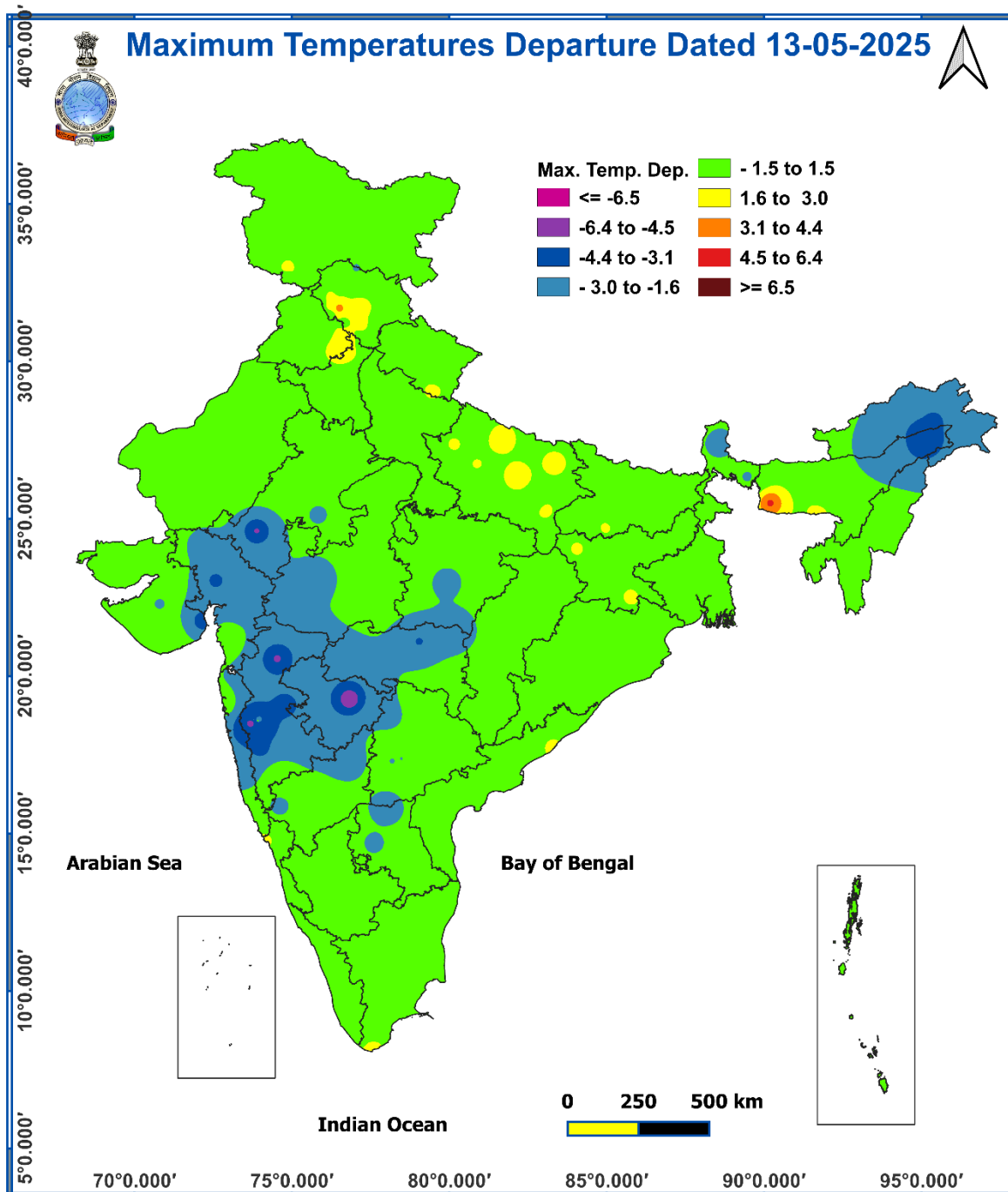
- ❖ **Hot and Humid Weather** very likely at isolated places over Gangetic West Bengal, Jharkhand, Odisha and Tamilnadu & Puducherry.

**Wind Speed & Relative Humidity** (valid till 1430 hrs IST of 14<sup>th</sup> May, 2025 based on 1730 hrs IST of 13<sup>th</sup> May, 2025) are attached in **Annexures 4-5** and **Maximum Temperature & its Departure Forecast** (based on 1730 hrs IST of 13<sup>th</sup> May, 2025) are attached in **(Annexure 6)**.

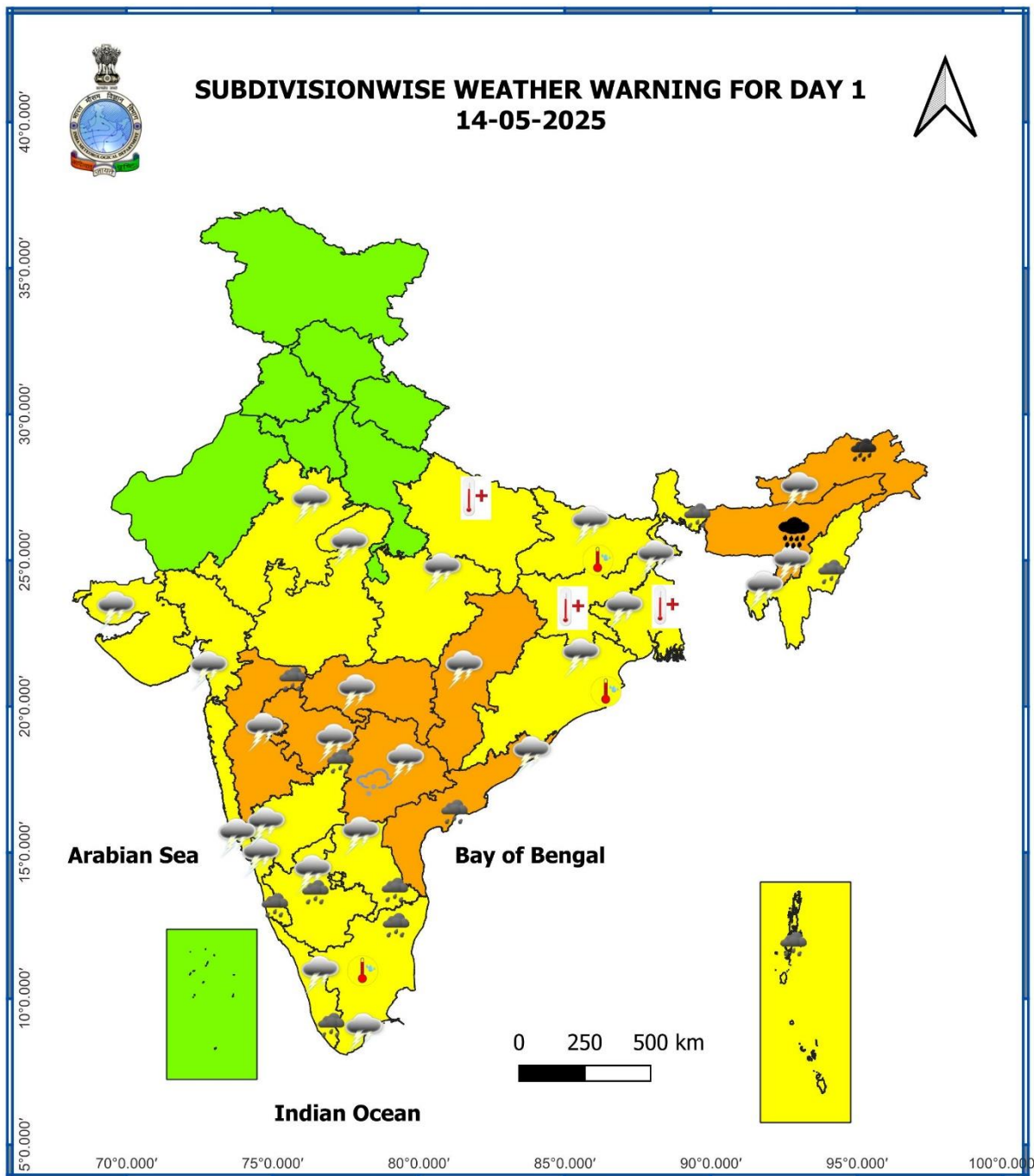
Annexure 1



Annexure 2

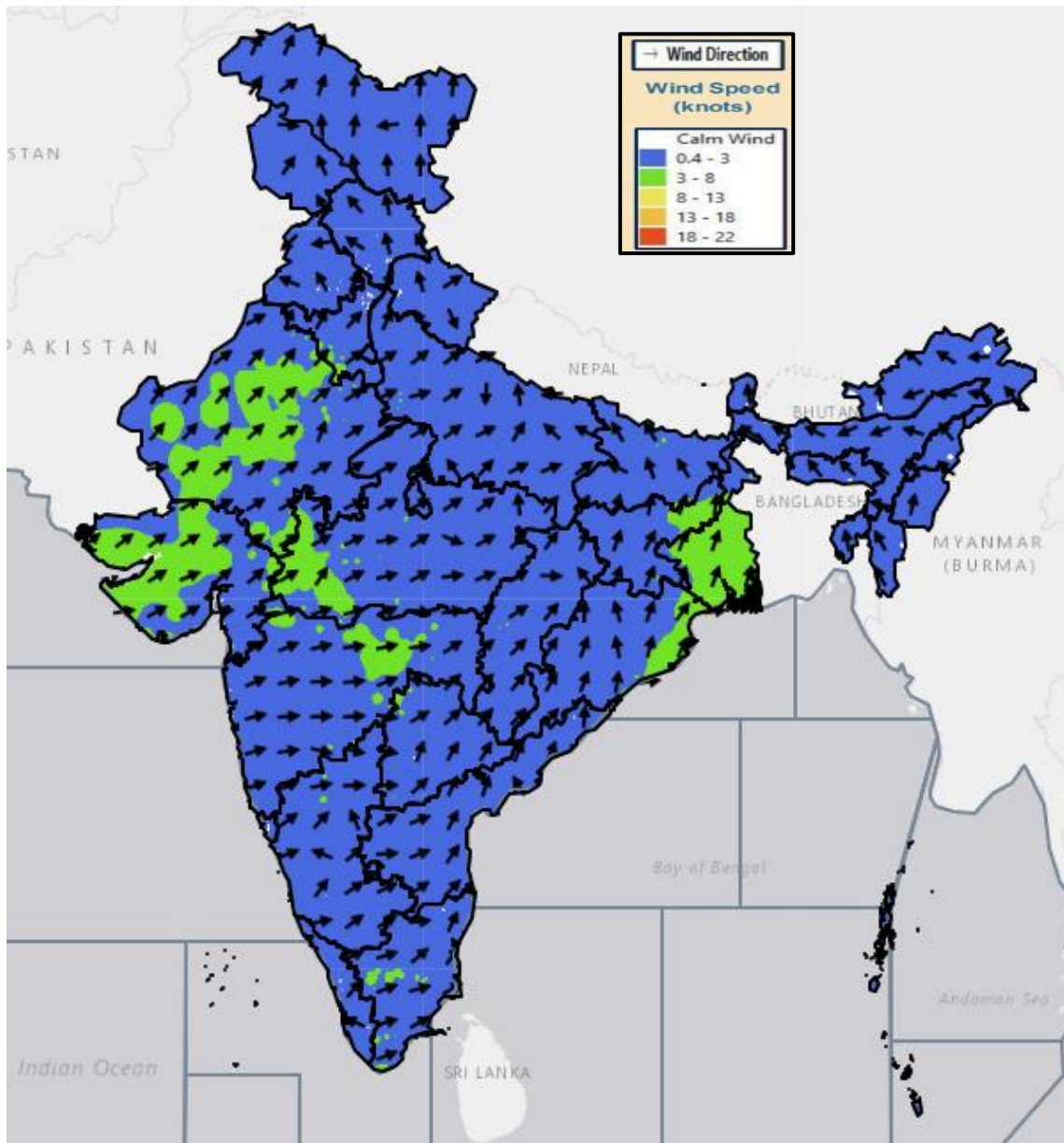


Annexure 3



## Annexure 4

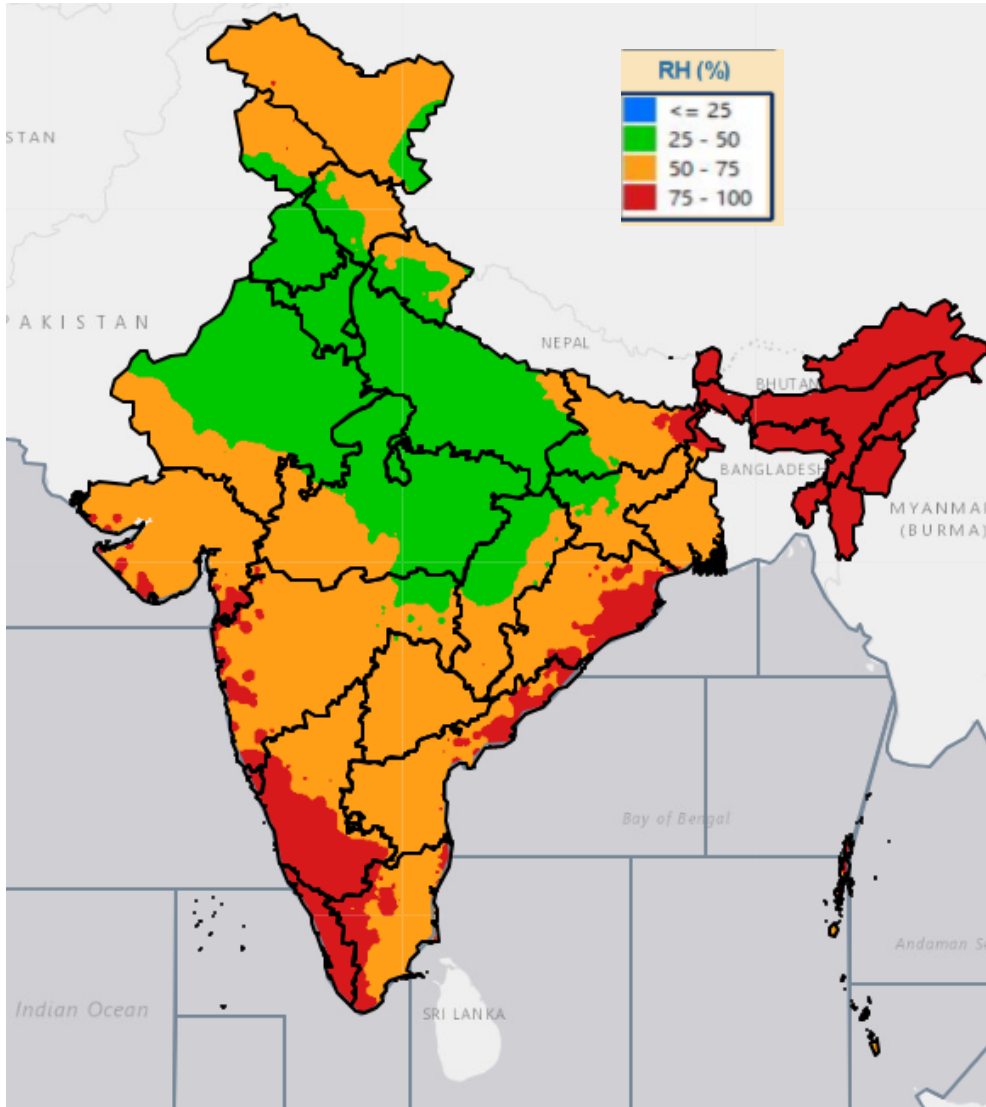
Wind (Speed & Direction) valid till 1430 hours IST of 14<sup>th</sup> May, 2025 based on 1730 hours IST of 13<sup>th</sup> May, 2025:





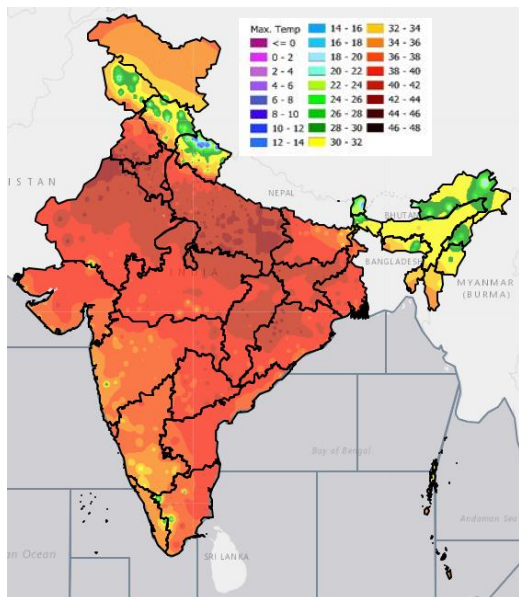
Annexure 5

Relative Humidity (RH) valid till 1430 hours IST of 14<sup>th</sup> May, 2025 based on 1730 hours IST of 13<sup>th</sup> May, 2025:

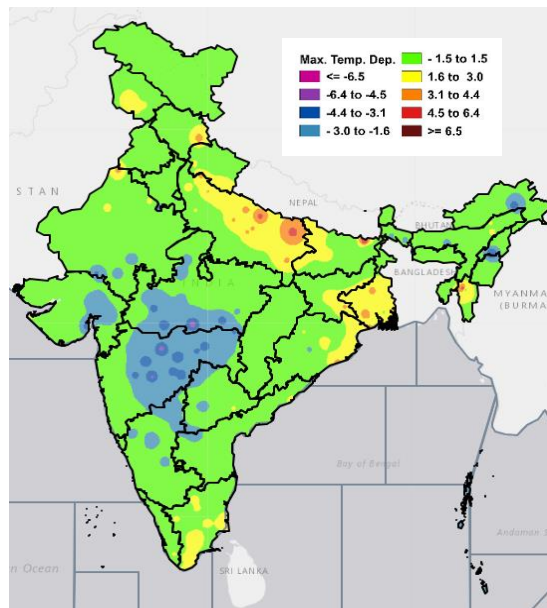


## Annexure 6

(A) Tmax for 14.05.2025 based on 1730 hours IST of 13.05.2025



(B) Tmax Dep. For 14.05.2025 based on 1730 hours IST of 13.05.2025



## Annexure 7

### Heat Wave

Heat wave is considered if maximum temperature of a station reaches at least 40°C or more for Plains, 37°C or more for coastal stations and at least 30°C or more for Hilly regions. Following criteria are used to declare heat wave:

#### a) Based on Departure from Normal

- *Heat Wave*: Departure from normal is 4.5°C to 6.4°C
- *Severe Heat Wave*: Departure from normal is >6.4°C

#### b) Based on Actual Maximum Temperature (for plains only)

- *Heat Wave*: When actual maximum temperature  $\geq 45^\circ\text{C}$
- *Severe Heat Wave*: When actual maximum temperature  $\geq 47^\circ\text{C}$

### Hot and Humid:

When the maximum temperatures remain 3°C above normal along with the above normal relative humidity.

### Warm Night

Warm Night is considered if maximum temperature of a station reaches at least 40°C or more for Plains, 37°C or more for coastal stations and at least 30°C or more for Hilly regions. Following criteria is used to declare Warm Night:

- Minimum temperature Departure from normal should be  $\geq 4.5^\circ\text{C}$ .

To declare heat wave, the above criteria should be met at least in 2 stations in a Meteorological sub-division for at least two consecutive days and it will be declared on the second day.

### Heat Wave Warning

<b>Green</b> <b>(No action)</b>	<b>Normal Day</b>	<b>Maximum temperatures are near normal</b>
<b>Yellow Alert</b> <b>(Be updated)</b>	<b>Heat Alert</b>	<b>Heat wave conditions at district level likely to persist for 2 days</b>
<b>Orange Alert</b> <b>(Be prepared)</b>	<b>Severe Heat Alert for the day</b>	<b>(i) Severe heat wave conditions persist for 2 days. (i) With varied severity, heat wave is likely to persist for 4 days or more</b>



## Annexure 7

<b>Red Alert (Take Action)</b>	<b>Extreme Heat Alert for the day</b>	<p>(i) Severe heat wave persists for more than 2 days.</p> <p>(ii) Total MAXIMUM TEMPERATURES number of heat/severe heat wave days likely to exceed 6 days.</p>
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## Impact expected and action suggested due to Heat Wave

### 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