Subject:

i) Heat wave conditions over East, Central & Northwest India during next 5 days.

ii) Rain/Thunderstorm accompanied with lightning/gusty winds likely to continue over Northeast India.

Weather observed during past 24 hours:

- **Heat wave conditions** prevailed in isolated pockets over Gangetic West Bengal, Bihar, Jharkhand and Odisha.

- **Maximum Temperatures** (as on 26/04/2022) were 42-44°C over many parts of West Rajasthan & Vidarbha; some parts of northern Madhya Pradesh, interior Gangetic West Bengal, southern parts of East Uttar Pradesh and Bihar and in isolated pockets of Jharkhand, northern Odisha, Chhattisgarh, Saurashtra-Kutch, northern parts of interior Maharashtra and 40-42°C over many parts of East Rajasthan, West Uttar Pradesh, Haryana-Delhi, southern parts of Madhya Pradesh, Telangana and in some parts of Gujarat Region, northern part of East Uttar Pradesh & Rayalaseema and in isolated pockets of Punjab and Madhya Maharashtra.

- **Chief amount of rainfall (in cm):** Sikkim: North Sikkim: Kabi-6, Coastal Andhra Pradesh: Vishakhapattnam: Araku Valley-5.

**Maximum Temperature forecast and Heat Wave warning:**

- Rise by about 2°C in maximum temperatures very likely over most parts of Northwest India during next 3 days and fall by about 2°C thereafter.

- No significant change in maximum temperatures very likely over most parts of East India during next 3 days and fall by about 2°C thereafter.

- No significant change in maximum temperatures very likely over rest parts of the country.

- **Heat wave conditions very likely to prevail in isolated pockets over**
  - Vidarbha, Rajasthan & Madhya Pradesh during next 5 days;
  - Uttar Pradesh, Jharkhand, interior Gangetic West Bengal & interior Odisha during 27th-30th April;
  - Punjab, Haryana-Chandigarh-Delhi during 28th April-01st May;
  - Bihar during 27th-29th and over Chhattisgarh during 28th-30th April;
  - Northern parts of Gujarat State on 27th & 28th April, 2022.
Rainfall/thunderstorm Forecast & Warnings:

✓ Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels, rainfall intensity is likely to increase over the region from 29th April:
  - Fairly widespread/widespread rainfall with thunderstorm/lightning/gusty winds (speed reaching 40-50 kmph) very likely over Arunachal Pradesh, Assam-Meghalaya and scattered/fairly widespread rainfall over Nagaland-Manipur-Mizoram-Tripura & Sub-Himalayan West Bengal-Sikkim during next 5 days.
  - Isolated heavy rainfall very likely over Arunachal Pradesh on 30th April & 01st May; over Assam-Meghalaya on 29th & 30th April and isolated heavy to very heavy rainfall also likely over Assam-Meghalaya on 01st May.

✓ Under the influence of a fresh Western Disturbance; light/moderate isolated rainfall accompanied with thunderstorm/lightning/gusty winds (speed reaching 30-40 kmph) very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh during 28th April-01st May and over Uttarakhand during 29th April-01st May. Isolated hailstorm also likely over Jammu-Kashmir & Himachal Pradesh on 29th April and over Uttarakhand on 30th April & 01st May 2022.

✓ Very light isolated rainfall with Duststorm/thunderstorm likely over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh on 29th April and over Rajasthan on 29th & 30th April.

✓ Strong surface winds (speed reaching 30-40 kmph) very likely over Rajasthan on 28th & 29th and over Uttar Pradesh on 29th & 30th April.

✓ Under the influence of another fresh Western Disturbance likely to affect Northwest India from 02nd May, 2022:
  - Light/moderate scattered to fairly widespread rainfall accompanied with thunderstorm/lightning likely over Western Himalayan Region during 02nd-04th May.
  - Isolated light rainfall likely over plains of northwest India during 03rd-04th May.

✓ Due to trough/wind discontinuity over peninsular India in lower tropospheric levels:
  - Isolated to scattered rainfall with thunderstorm/lightning very likely over Kerala, Karnataka, Tamil Nadu, Andhra Pradesh and Telangana during next 5 days.

For more details refer:
https://mausam.imd.gov.in/imd_latest/content/subdivisionwise-warning.php
Impact expected and action suggested due to heat wave conditions over

- Vidarbha, Rajasthan & Madhya Pradesh during next 5 days;
- Uttar Pradesh, Jharkhand, interior Gangetic West Bengal & interior Odisha during 27th-30th April;
- Punjab, Haryana-Chandigarh-Delhi during 28th April-01st May;
- Bihar during 27th-29th and over Chhattisgarh during 28th-30th April;
- Northern parts of Gujarat State on 27th & 28th April, 2022.

**Impact expected:**

- Heat wave could lead to moderate health concern for vulnerable people e.g. infants, elderly, people with chronic diseases
- Increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.

**Action suggested:**

- Drink sufficient water- even if not thirsty.
- Avoid heat exposure, wear lightweight, light-colored, loose, cotton clothes and cover the head by use of cloth, hat or umbrella etc.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.
Legends:

Heavy Rain: 64.5 to 115.5 mm; Very Heavy Rain: 115.6 to 204.4 mm; Extremely Heavy Rain: >204.4 mm.

Region wise classification of meteorological Sub-Divisions:
1) 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.
3) East India: Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
4) Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
5) West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
6) South India: Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

<table>
<thead>
<tr>
<th>% Stations</th>
<th>Category</th>
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<th>Category</th>
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<tbody>
<tr>
<td>76-100</td>
<td>Widespread (WS/Most Places)</td>
<td>26-50</td>
<td>Scattered (SCT/A Few Places)</td>
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<tr>
<td>51-75</td>
<td>Fairly Widespread (FWS/Many Places)</td>
<td>1-25</td>
<td>Isolated (ISOL)</td>
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Probabilistic Forecast

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<tr>
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<tr>
<td>Likely</td>
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<tr>
<td>Very Likely</td>
<td>50 - 75</td>
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<tr>
<td>Most Likely</td>
<td>&gt; 75</td>
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Thunderstorm with Lightning

Heat Wave