



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

**Press Release
Date: 20th April, 2022
Time of Issue: 1300 hrs IST**

Subject:

- i) Likely occurrences of Rain/Thunderstorm accompanied by lightning/gusty winds over Western Himalayan Region & adjoining plains on 20th and 21st with peak activities on 21st April, over central India on 21st and 22nd and over east India during 20th-22nd April, 2022.**
- ii) Heavy rainfall spell likely to continue over Assam-Meghalaya during next 5 days.**

Weather observed during past 24 hours:

- ✓ **Heat wave to Severe Heat wave conditions** prevailed in isolated pockets over Himachal Pradesh, Haryana, Chandigarh & Delhi and Rajasthan and Heat wave **conditions** in isolated pockets over Punjab, Madhya Pradesh, Jharkhand, West Uttar Pradesh and Saurashtra & Kutch.
- ✓ **Maximum Temperatures** (as on 19/04/2022) were **42-44°C** in many parts over West Rajasthan, Vidarbha, West Madhya Pradesh; in some parts over East Rajasthan, Uttar Pradesh, East Madhya Pradesh, Haryana-Delhi; in isolated pockets over north Madhya Maharashtra, Jharkhand and **40-42°C** in many parts of Punjab, Telangana & Marathawada and in isolated pockets over Chhattisgarh, interior Odisha & Gujarat state.
- ✓ **Chief amount of rainfall (in cm): Assam-Meghalaya:** Williamnagar (dist East Garo Hills)-8, Tura (dist West Garo Hills)-7.

Maximum Temperature forecast and Heat Wave warning:

- ✓ No significant change in maximum temperatures very likely over Northwest & Central India today and fall by 2-4°C during next 2 days and rise thereafter.
- ✓ Fall by 2-3°C in maximum temperatures very likely over Gujarat during next 2 days and no significant change thereafter.
- ✓ No significant change in maximum temperatures very likely over Maharashtra during next 2 days and fall by 2-3°C thereafter.
- ✓ Fall by 2-4°C in maximum temperatures 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.
- ✓ **Heat wave conditions** very likely to prevail in isolated pockets over Jammu division, Himachal Pradesh, Punjab, Haryana-Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand on 20th April, 2022. It is likely to abate thereafter due to approaching Western Disturbance, wind conditions & cloudiness over the region.

Rainfall/thunderstorm Forecast & Warnings:

- ✓ Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels:
 - ❖ Fairly widespread rainfall very likely over Arunachal Pradesh, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura and Sub-Himalayan West Bengal & Sikkim with **thunderstorm/lightning/gusty winds** during next 5 days. **Isolated heavy rainfall** likely over Assam-Meghalaya during 20th-24th April and over Arunachal Pradesh on 22nd April, 2022.
 - ❖ Isolated to scattered rainfall with **thunderstorm/lightning/gusty winds** very likely over Bihar, Jharkhand, Gangetic West Bengal & Odisha during next 3 days.
- ✓ Under the influence of a Western Disturbance:
 - ❖ Light scattered/fairly widespread rainfall accompanied with isolated **thunderstorm/lightning/gusty winds** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during next 3 days. Isolated **hailstorm** also likely over Himachal Pradesh on 20th and over Uttarakhand during 20th-22nd April.
 - ❖ Light isolated rainfall with **thunderstorm/lightning/gusty winds** likely over Punjab, Haryana-Chandigarh-Delhi & Rajasthan during next 2 days; over West Madhya Pradesh on 20th & 21st; over East Madhya Pradesh on 21st; over Vidarbha during 21st-23rd and over Chhattisgarh during 20th-24th April.
 - ❖ **Duststorm/Thunderstorm** at isolated places very likely over Rajasthan on 20th & 21st and over Uttar Pradesh on 21st April, 2022.
- ✓ Under the influence of cyclonic circulation over south Tamil Nadu coast and a trough from Rayalaseema to this above cyclonic circulation in lower tropospheric levels:
 - ❖ Isolated to scattered rainfall accompanied with **thunderstorm/lightning/gusty winds** very likely over Kerala-Mahe, Tamilnadu-Puducherry-Karaikal, Karnataka, Coastal Andhra Pradesh and Telangana during next 5 days.

For more details refer:

https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php





Impact expected and action suggested due to Isolated Thunderstorm/lightning/Squall & Hailstorm over Himachal Pradesh on 20th; over Uttarakhand during 20th- 22nd and over Assam-Meghalaya & Sub-Himalayan West Bengal & Sikkim on 22nd April, 2022.

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.
- Farming operations may be suspended during the event.

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.

2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.

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.

SPATIAL DISTRIBUTION (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)



Heavy Rain



Strong Winds

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



Thunderstorm with Lightning



Heat Wave