



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

Press Release

Date: 21st February, 2023

Time of Issue: 1245 hours IST

**Subject: i) Scattered to fairly widespread rainfall over northeast India till 23rd with isolated heavy falls over Arunachal Pradesh & northeast Assam on 21st & 22nd February, 2023.
ii) Maximum temperatures are likely to be above normal by 3-5°C over northwest, central & West India during next 5 days.**

Weather observed during past 24 hours ending at 0830 hrs IST of today:

- ❖ **Maximum temperatures** are in the range of 35-39°C over many parts of Gujarat, Rajasthan and Maharashtra.
- ❖ **Maximum temperatures** are above normal by 3-5°C over most parts of northwest, central & West India.
- ❖ **Light rainfall** observed at many places over Jammu & Kashmir; at some places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and at isolated places over Himachal Pradesh, Uttarakhand, Assam and Nagaland.

Weather Forecast and Warnings (Annexure I):

- ❖ Due to trough over East India in lower tropospheric levels:
 - ✓ Light to moderate scattered to widespread rainfall very likely over Arunachal Pradesh and light isolated to scattered rainfall over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland & Manipur during next 3 days and decrease in intensity & distribution thereafter.
 - ✓ **Isolated heavy rainfall** very likely over Arunachal Pradesh on 21st & 22nd February and over northeast Assam on 22nd February.
 - ✓ **Isolated thunderstorm** with lightning very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland & Manipur on 21st & 22nd February and **with hail** over northeast Assam on 22nd February.
- ❖ A Western Disturbance as a trough in middle tropospheric westerlies runs roughly along Long. 70°E to the north of Lat. 32°N and an induced cyclonic circulation lies over Haryana & neighbourhood in lower tropospheric levels. Under their influence:
 - ✓ Light isolated rainfall/snowfall very likely over Western Himalayan Region during next 24 hours.
- ❖ A fresh Western Disturbance is likely to impact Western Himalayan Region from 25th February. Under its influence:
 - ✓ Light isolated to scattered rainfall likely over the region on 25th February.
- ❖ **No significant weather very likely over rest parts of the country during next 5 days.**

Maximum Temperatures Forecast:

- ❖ Maximum Temperatures are very likely to fall by 2°C over Northwest India during next 2 days and no significant change thereafter.
- ❖ No significant change in maximum Temperatures very likely over rest parts of the country during next 5 days.
- ❖ **However, these are very likely to be above normal by 3-5°C over northwest, central & West India during next 5 days.**

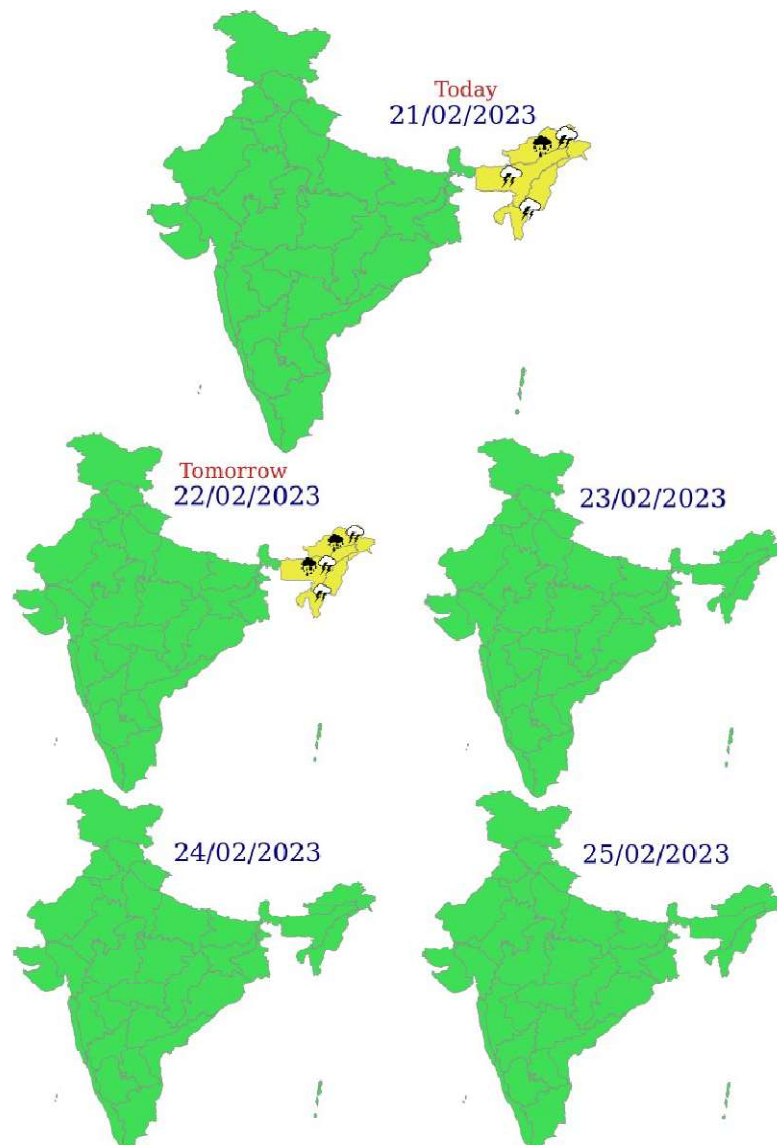
Impact of higher day temperature on Agriculture over Punjab, Haryana, and Rajasthan & Advisory to farmers for next 5-days in view of the above

- ❖ **Impact:** This higher day temperature might lead to adverse effect on wheat as wheat crop is approaching reproductive growth period, which is sensitive to temperature. High temperature during flowering and maturing period leads to loss in yield. There could be similar impact on other standing crops and horticulture.
- ❖ **Advisory for farmers:** Farmers are advised to check if the crop appears to be under stress, light irrigation can be provided. To reduce the impact of higher temperature, add mulch material in the space between two rows of vegetable crops for conservation of soil moisture and maintaining the soil temperature.

For more details kindly refer:

https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php

Annexure I



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)

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

 Heavy Rain	 Heavy Snow	 Thunderstorm	 Dust Storm
 Strong Winds	 Visibility	 Cyclone	 Squall/ Hail
 Frost	 Cold Wave	 Heat Wave	 Sea State