



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

**Press Release
Date: 12th March, 2023
Time of Issue: 1330 hours IST**

**Subject: (i) A Western Disturbance likely to cause isolated/scattered rainfall & thunderstorm activity over Western Himalayan Region and adjoining plains during 12th to 14th March, 2023.
(ii) Wet spell likely over South, Central and East India during 15th-17th March, 2023.**

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

- ❖ **Maximum temperature** are in the range of **30 to 33°C** at most places over Punjab, Haryana, East Rajasthan, Chandigarh & Delhi, Uttar Pradesh and adjoining northern parts of Madhya Pradesh and Bihar. It is above normal by 3-5°C at many places over Punjab and at a few places over Haryana, Chandigarh & Delhi and adjoining West Uttar Pradesh and 1-3 °C above normal over remaining places in these areas.
- ❖ **Maximum temperature** are at the range of 23 to 30°C at many places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand and it is above normal by 6-8°C at many places over Jammu & Kashmir and 2-4 degC above normal over Himachal Pradesh and Uttarakhand.
- ❖ **Maximum temperature** are at the range of **30 – 34°C** over north-eastern state of India which is above normal by 2-4°C
- ❖ **Maximum temperature** are at the range of **34– 37 °C** at most parts of West Rajasthan, at a few places over Odisha, Chhattisgarh, Kerala; at isolated places over south Madhya Pradesh, Tamilnadu, Coastal & North Interior Karnataka, Goa, Interior Maharashtra, Telangana and Andhra Pradesh which are of near normal and at the range of **37- 38°C** at a few places over Saurashtra & Kutch, at isolated places over Gujarat Region, Southwest Rajasthan, Konkan and Vidarbha which was above normal by 2-5°C except over Vidarbha, which was near normal (within -2 to +2°C).
- ❖ Yesterday, **heat wave conditions** observed at isolated pockets of Saurashtra & Kutch and Konkan.
- ❖ **Light/Moderate rainfall/thundershowers** observed at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Arunachal Pradesh, Gangetic West Bengal and Himachal Pradesh.
- ❖ **Significant amount of rainfall recorded** (≥ 1 cm): **Himachal Pradesh:** Dharmsala-1.
- ❖ **Hailstorm** observed at isolated places over Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim.

Weather Forecast and Warnings (Annexure I):

- ❖ The **trough in westerlies runs** along Long. 88°E and to the north of 22°N in lower & middle tropospheric levels. Under its influence:
 - Isolated to Scattered light rainfall activity with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** very likely over Sub-Himalayan West Bengal & Sikkim and northeast India during 12th-14th March and Scattered to fairly widespread light

to moderate rainfall activity with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** on 15th & 16th March 2023.

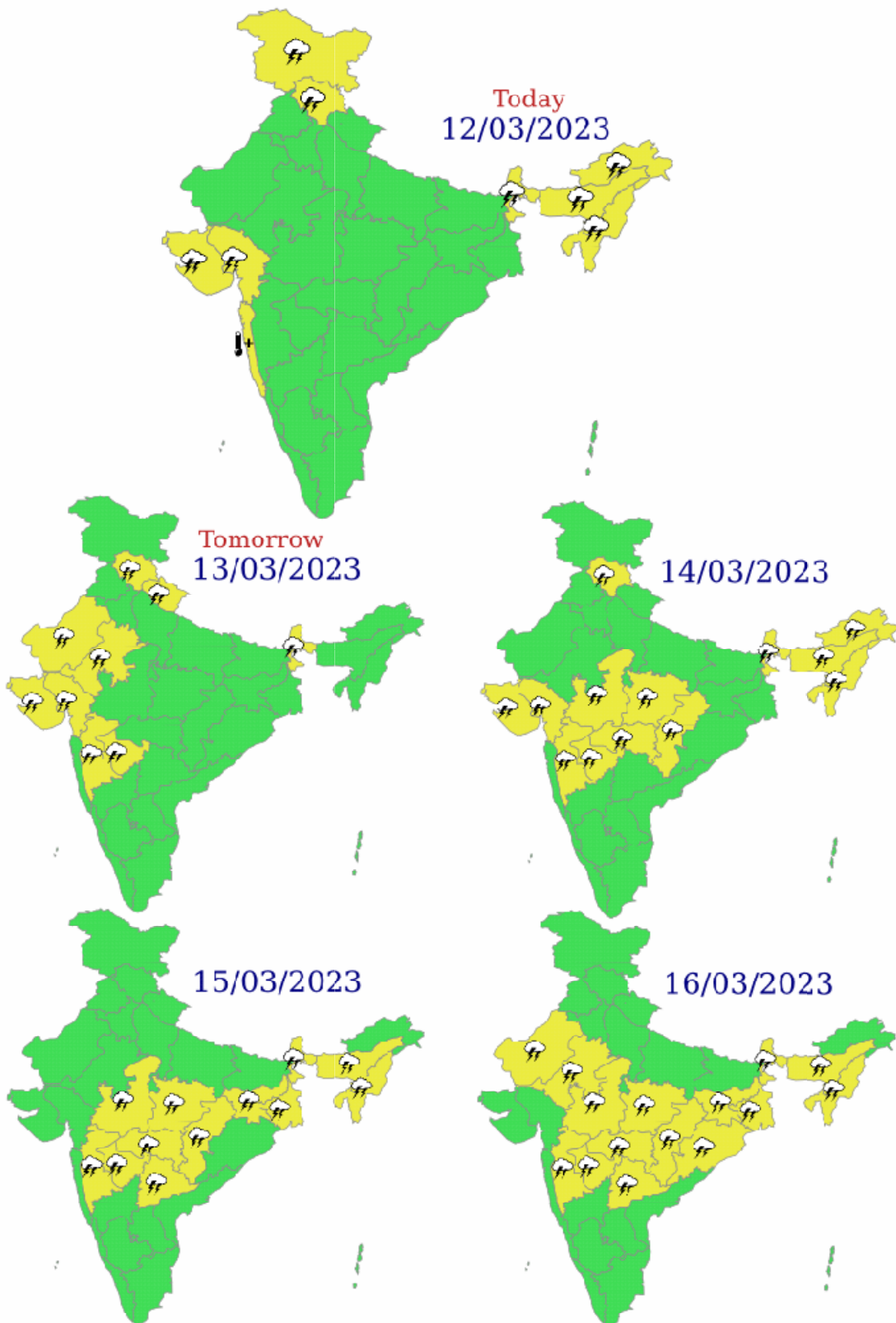
- ❖ The **Western Disturbance** as a trough in westerlies in middle & upper tropospheric levels runs roughly along Long. 62°E and to the north of 27°N. An induced cyclonic circulation lies over south Pakistan & neighbourhood in lower tropospheric levels. Under its influence:
 - Isolated to scattered rainfall with thunderstorm & lightning very likely over Western Himalayan Region during 12th-14th; over Punjab on 12th & 13th; West Rajasthan on 12th & 13th and over east Rajasthan on 13th March, 2023.
- ❖ Isolated light rainfall activity with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** very likely over West Madhya Pradesh during 14th-16th and with **thunderstorm & lightning** over Gujarat State during 12th-14th, Madhya Maharashtra and Marathwada during 13th-16th and over East Madhya Pradesh, Vidarbha & Chhattisgarh during 14th - 16th March, 2023.
- ❖ Due to likely interaction of middle tropospheric westerly trough with lower level easterly winds over central parts of Peninsular India and East India: isolated to scattered light/moderate rainfall likely over north interior Tamil Nadu, Andhra Pradesh, Interior Karnataka, east Gujarat, Maharashtra, Madhya Pradesh, Odisha, West Bengal and Jharkhand during 15th-17th March, 2023.

Maximum Temperatures Forecast and Heat Wave warnings during next 5 days:

- ❖ **Heat wave conditions very likely to occur in isolated pockets over north Konkan on 12th March, 2023.**
- ❖ **Northwest India:** Rise in Maximum Temperatures by 2-3^oC very likely during next 3 days and no significant change thereafter.
- ❖ **West India:** No significant change in Maximum Temperatures very likely over Maharashtra during next 24 hours and fall by 2-4^oC thereafter.
- ❖ **Central India:** Gradual rise in Maximum Temperatures by about 2^oC very likely during next 2 days and fall by 2-3^oC thereafter.
- ❖ **Rest parts of the Country:** No significant change in Maximum Temperatures very likely during next 5 days.

For more details kindly

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



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:**
 - **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.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
 - **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
-  Strong Winds
-  Frost

-  Heavy Snow
-  Visibility
-  Cold Wave

-  Thunderstorm
-  Cyclone
-  Heat Wave

-  Dust Storm
-  Squall/ Hail
-  Sea State