



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Date: 10<sup>th</sup> April, 2024  
Time of Issue: 1315 hours IST

#### Special Message (No.- 5)

FROM: INDIA METEOROLOGICAL DEPARTMENT  
TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS  
CONTROL ROOM NDMA  
SECRETARY, MOES  
DIRECTOR GENERAL, DOORDARSHAN  
DIRECTOR GENERAL, AIR  
PIB MOES  
CHIEF SECRETARY, GOVT. OF MADHYA PRADESH  
CHIEF SECRETARY, GOVT. OF CHHATTISGARH  
CHIEF SECRETARY, GOVT. OF MAHARASHTRA

**Subject: Light to moderate rainfall spell accompanied with thunderstorm, gusty winds & hail likely to continue over Central India during 10<sup>th</sup>-12<sup>th</sup> April, 2024.**

#### **Realised weather during past 24 hours till 0830 hours IST of today:**

- ❖ **Hailstorm** occurred at isolated places over Madhya Pradesh, Vidarbha and Marathwada.
- ❖ **Thundersquall/gusty winds** observed at isolated places over Madhya Pradesh, Vidarbha and Chhattisgarh.
- ❖ **Light/Moderate rain** accompanied with **thunderstorm** observed over many parts of Vidarbha; over some parts of East Madhya Pradesh and at isolated places over West Madhya Pradesh, Chhattisgarh.

#### **Weather Systems and Forecast & Warnings during next 5 days: (details in Annexure I)**

- ❖ A cyclonic circulation lies over southeast Rajasthan and a trough/wind discontinuity runs from southeast Rajasthan to northern parts of Coastal Karnataka and another trough runs from southeast Rajasthan to northeast Bangladesh in lower tropospheric levels. Under its influence:
  - ✓ Isolated to scattered light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (occasionally reaching 30-50 kmph)** very likely over Madhya Pradesh, Chhattisgarh, Vidarbha, over Marathwada, Madhya Maharashtra during 10<sup>th</sup>-13<sup>th</sup> April, 2024.
  - ✓ **Hailstorm activity also very likely at isolated places over Madhya Pradesh on 10<sup>th</sup> & 11<sup>th</sup>; Vidarbha during 10<sup>th</sup> -12<sup>th</sup> and over Marathwada on 10<sup>th</sup>, 12<sup>th</sup> & 13<sup>th</sup> April, 2024.**

The state-wise forecast is given below: (Warning graphics are given at ANNEXURE-I)

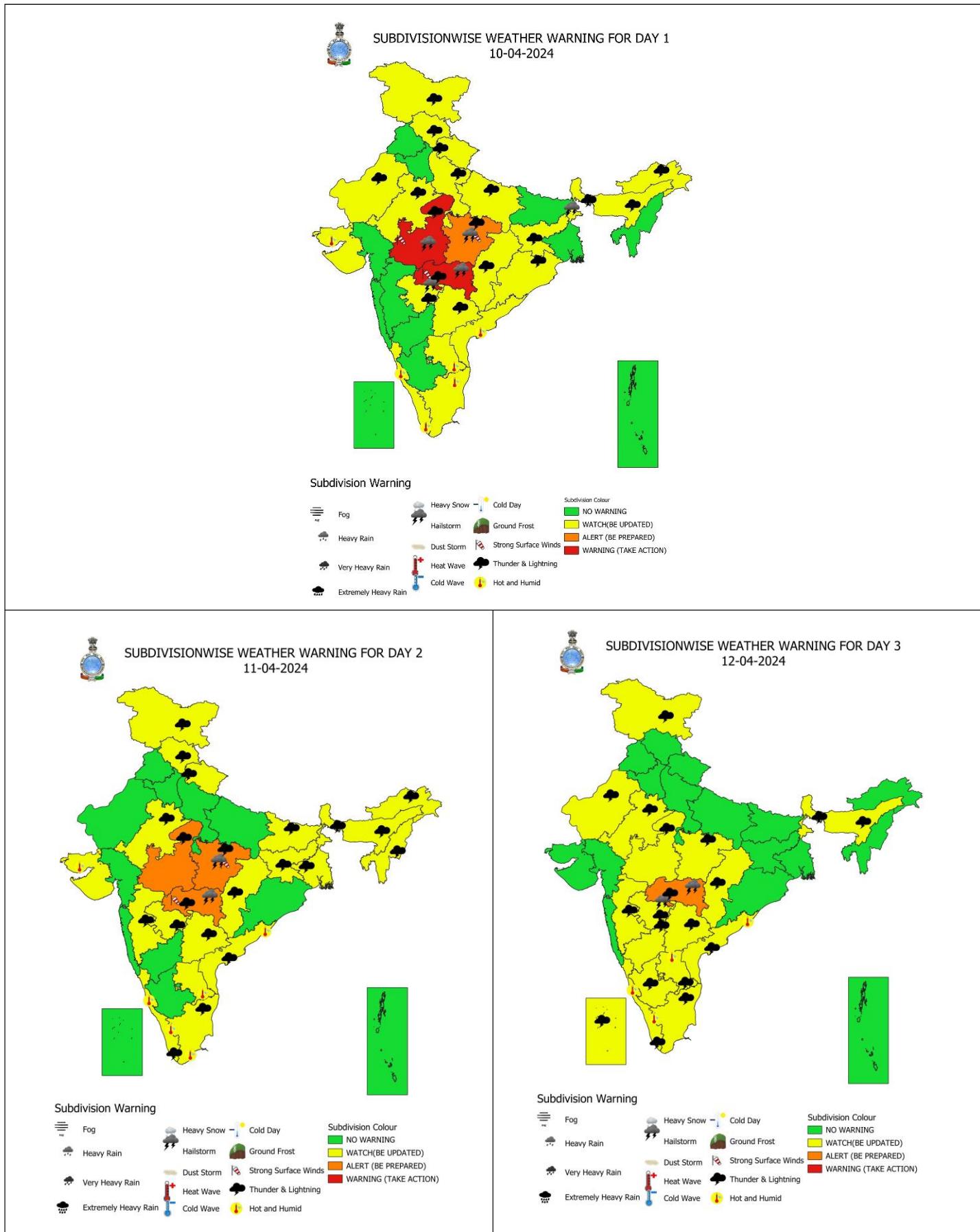
S. No.	State/sub-division	Forecast
1.	East Madhya Pradesh	<ul style="list-style-type: none"> <li>Light to moderate rain accompanied with thunderstorm, lightning &amp; <b>squally winds (speed occasionally reaching 50-60 kmph)</b> at isolated places on 10<sup>th</sup> April; with gusty winds (speed occasionally reaching 40-50 kmph) at isolated places on 11<sup>th</sup> &amp; 12<sup>th</sup> April; with gusty winds (speed occasionally reaching 30-40 kmph) at isolated places on 13<sup>th</sup> and with lighting at isolated places on 14<sup>th</sup> April.</li> <li>Light to moderate rain at isolated places on 15<sup>th</sup> &amp; 16<sup>th</sup> April.</li> <li><b>Hailstorm also likely at isolated places on 10<sup>th</sup> &amp; 11<sup>th</sup> April.</b></li> </ul>
2.	West Madhya Pradesh	<ul style="list-style-type: none"> <li>Light to moderate rain accompanied with thunderstorm, lightning &amp; <b>squally winds (speed occasionally reaching 50-60)</b> at isolated places on 10<sup>th</sup> April; with gusty winds (speed occasionally reaching 40-50 kmph) at isolated places on 11<sup>th</sup> April; with gusty winds (speed occasionally reaching 30-40 kmph) at isolated places on 12<sup>th</sup> and with lighting at isolated places on 13<sup>th</sup> &amp; 14<sup>th</sup> April.</li> <li>Light to moderate rain at isolated places on 15<sup>th</sup> &amp; 16<sup>th</sup> April.</li> <li><b>Hailstorm also likely at isolated places on 10<sup>th</sup> April.</b></li> </ul>
3.	Vidarbha	<ul style="list-style-type: none"> <li>Light to moderate rain accompanied with thunderstorm, lightning &amp; <b>squally winds (speed occasionally reaching 50-60 kmph)</b> at isolated places on 10<sup>th</sup> April; with gusty winds (speed occasionally reaching 40-50 kmph) at isolated places on 11<sup>th</sup> &amp; 12<sup>th</sup> April; with gusty winds (speed occasionally reaching 30-40 kmph) at isolated places on 13<sup>th</sup> &amp; 14<sup>th</sup> April.</li> <li>Light to moderate rain at isolated places on 15<sup>th</sup> &amp; 16<sup>th</sup> April.</li> <li><b>Hailstorm also likely at isolated places during 10<sup>th</sup> -12<sup>th</sup> April.</b></li> </ul>
4.	Chhattisgarh	<ul style="list-style-type: none"> <li>Light to moderate rain accompanied with thunderstorm, lightning &amp; gusty winds (speed occasionally reaching 30-40 kmph) at isolated places during 10<sup>th</sup> -14<sup>th</sup> April.</li> <li>Light to moderate rain at isolated places on 15<sup>th</sup> April.</li> </ul>
5.	Marathwada	<ul style="list-style-type: none"> <li>Light to moderate rain accompanied with thunderstorm &amp; lightning at isolated places during 10<sup>th</sup> - 14<sup>th</sup> April.</li> <li>Light to moderate rain at isolated places on 15<sup>th</sup> &amp; 16<sup>th</sup> April.</li> <li><b>Hailstorm also likely at isolated places on 10<sup>th</sup>, 12<sup>th</sup> &amp; 13<sup>th</sup> April.</b></li> </ul>

6.	Madhya Maharashtra	<ul style="list-style-type: none"> <li>Light to moderate rain accompanied with thunderstorm &amp; lightning on 10<sup>th</sup> and with gusty winds (speed occasionally reaching 30-40 kmph) on 11<sup>th</sup> &amp; 12<sup>th</sup> April.</li> <li>Light to moderate rain at isolated places on 15<sup>th</sup> &amp; 16<sup>th</sup> April.</li> </ul>
----	--------------------	--

**For more details, kindly refer:** [https://mausam.imd.gov.in/responsive/all\\_india\\_forcast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php)

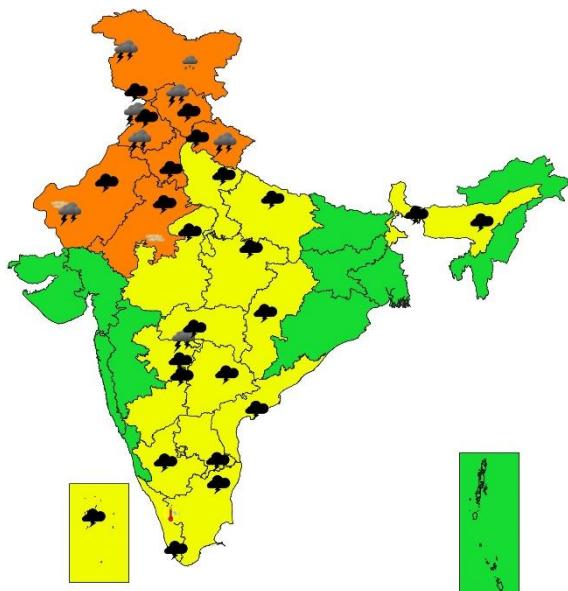
Dr. Shashi Kant  
 Scientist- 'D'  
 NWFC, IMD New Delhi

## ANNEXURE I





SUBDIVISIONWISE WEATHER WARNING FOR DAY 4  
13-04-2024

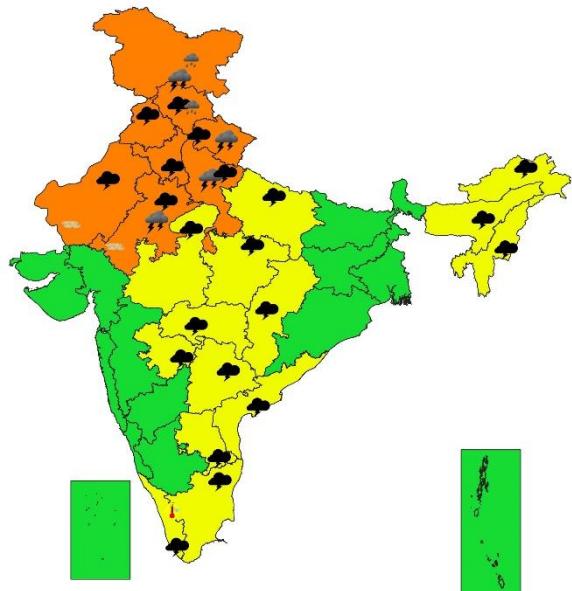


Subdivision Warning

Fog	Heavy Snow	Cold Day
Heavy Rain	Hailstorm	Ground Frost
Very Heavy Rain	Dust Storm	Strong Surface Winds
Extremely Heavy Rain	Heat Wave	Thunder & Lightning
	Cold Wave	Hot and Humid



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5  
14-04-2024



Subdivision Warning

Fog	Heavy Snow	Cold Day
Heavy Rain	Hailstorm	Ground Frost
Very Heavy Rain	Dust Storm	Strong Surface Winds
Extremely Heavy Rain	Heat Wave	Thunder & Lightning
	Cold Wave	Hot and Humid

**Impact expected and action suggested due to thunderstorm accompanied with lightning/gusty winds & Hailstorm over Madhya Pradesh, Vidarbha, Marathwada and Chhattisgarh on 10<sup>th</sup> & 11<sup>th</sup> April.**

**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.

**Agromet advisories for Heavy Rainfall, Gusty Winds, Hailstorm and Heat Wave likely over various parts of the country**

- Harvest the matured crops, fruits and vegetables at the earliest and keep the harvested produce at safer places or cover the heaps of harvested produce in the fields with tarpaulin sheets in Central India.
- Use hail nets or hail caps in fruit orchards to protect them from mechanical damage and provide mechanical support to horticultural crops & staking to vegetables in Madhya Pradesh, Vidarbha.

## Legends & abbreviations:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office.
- ❖ **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-Himalayan 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)

Subdivision Warning	Dust Storm	Subdivision color
Heavy Rain	Strong Surface Winds	NO WARNING
Heavy Snow	Heat Wave	WATCH(BE UPDATED)
Thunderstorms & Lightning	Cold wave	ALERT (BE PREPARED)
Hailstorm	Fog	WARNING (TAKE ACTION)

Probabilistic Forecast		Flash Flood Risk	
Terms	Probability of Occurrence (%)	High Risk (Take Action)	Moderate Risk (Be Prepared)
Unlikely	< 25		
Likely	25 - 50		
Very Likely	50 - 75		
Most Likely	> 75		