



Government of India
Ministry of Earth Sciences
India Meteorological Department



Date: 06th April, 2024

Time of Issue: 1340 hours IST

Special Message (No.- 1)

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 ODISHA
CHIEF SECRETARY, GOVT. OF JHARKHAND
CHIEF SECRETARY, GOVT. OF WEST BENGAL
CHIEF SECRETARY, GOVT. OF MAHARASHTRA

**Subject: A fresh spell of thunderstorms accompanied with rainfall, gusty winds and
hail likely to start over East, Central & Peninsular India from 06th April,
2024.**

Weather Systems and Forecast & Warnings during next 5 days: (Annexure I)

- ❖ The trough/wind discontinuity runs from south Chhattisgarh to Comorin area across interior Karnataka and interior Tamil Nadu in lower tropospheric levels. The low level anticyclone over the east central Bay of Bengal is likely to gradually strengthen and move northwestwards towards northwest Bay of Bengal from today. Under their influence;
 - ✓ Scattered to fairly widespread light/moderate rainfall accompanied with **thunderstorms, lightning & gusty winds (30-50 kmph)** very likely over Jharkhand during 06th-10th; over Gangetic West Bengal, Odisha and Bihar during 06th-08th; Madhya Pradesh, Chhattisgarh, Marathwada during 06th-12th and over Vidarbha, Madhya Maharashtra, during 07th-12th April, 2024.
 - ✓ **Hailstorm activity also very likely at isolated places over Odisha on 07th; East Madhya Pradesh during 07th-10th; Vidarbha during 07th-09th; over Chhattisgarh on 07th & 08th and over Marathwada on 08th April, 2024.**

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

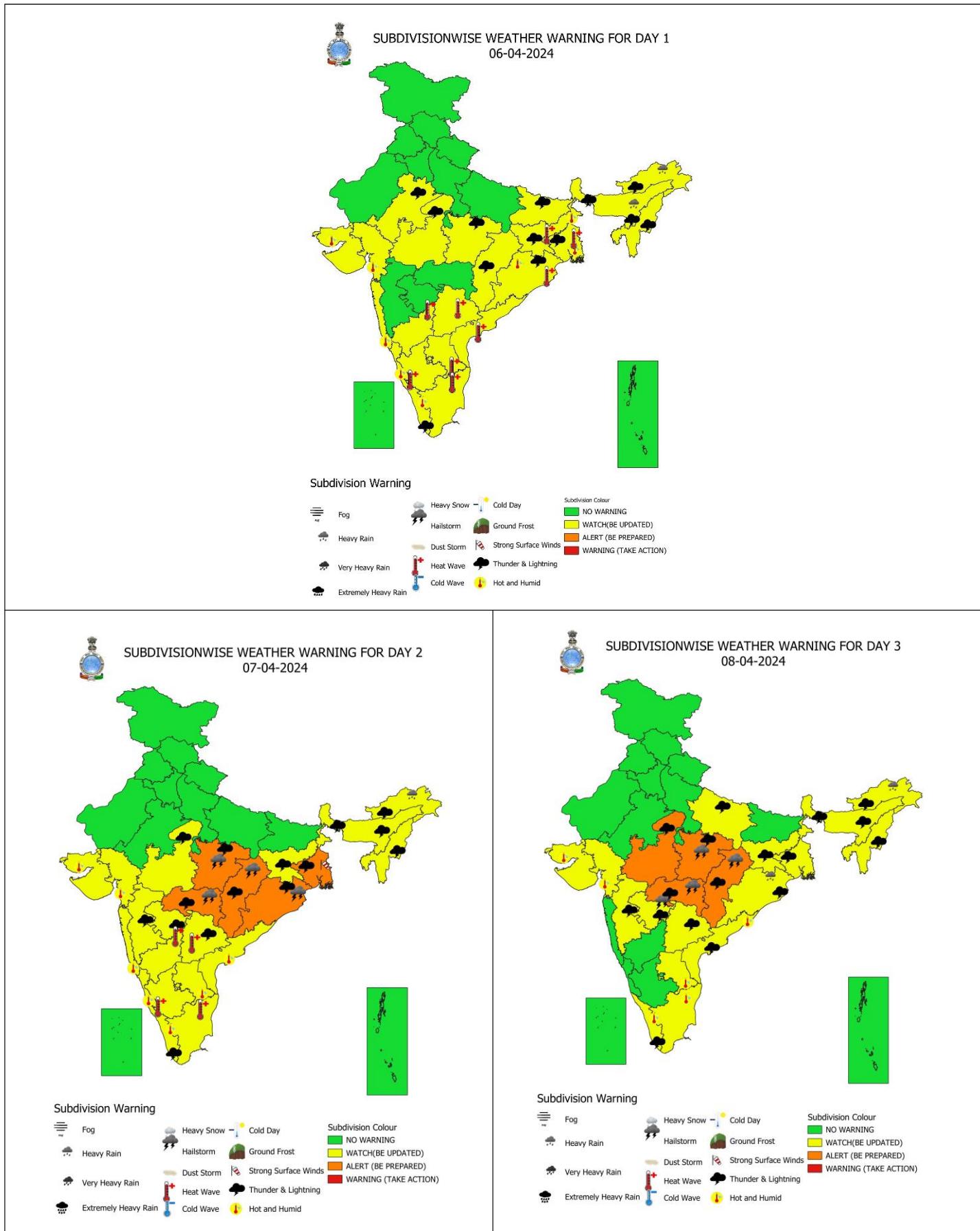
| S. No. | State/sub-division | Forecast |
|--------|---------------------|---|
| 1. | East Madhya Pradesh | <ul style="list-style-type: none"> Light to moderate rain accompanied with thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) at isolated places on 06th; with gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) at isolated places during 07th -10th April. Light to moderate rain at some places on 11th & 12th April. Hailstorm also likely at isolated places during 07th-10th April. |
| 2. | West Madhya Pradesh | <ul style="list-style-type: none"> Light to moderate rain accompanied with thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) at isolated places on 06th & 07th April; with gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) at isolated places on 08th; with squally winds (speed reaching 50-60 kmph) at isolated places on 09th &10th April. Light to moderate rain at some places on 11th; at isolated places on 12th April. |
| 3. | Vidarbha | <ul style="list-style-type: none"> Light to moderate rain accompanied with thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) at isolated places on 07th April and with gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) at isolated places on during 08th- 10th April. Light to moderate rain at some places on 11th & 12th April. Hailstorm also likely at isolated places during 07th -09th April. |
| 4. | Chhattisgarh | <ul style="list-style-type: none"> Light to moderate rain accompanied with thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) during 06th -08th April. Light to moderate rain accompanied with thunderstorm & lightning at some places on 09th & 10th April. Light to moderate rain at isolated places on 11th; at some places on 12th April. Hailstorm also likely at isolated places on 07th & 08th April. |
| 5. | Marathwada | <ul style="list-style-type: none"> Light to moderate rain at isolated places on 06th April. Light to moderate rain accompanied with thunderstorm & lightning at isolated places on 07th and with gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) at isolated places during 08th -10th April. Light to moderate rain at isolated places on 11th & 12th April. Hailstorm also likely at isolated places on 08th April. |

| | | |
|----|----------------------|---|
| 6. | Madhya Maharashtra | <ul style="list-style-type: none"> Light to moderate rain accompanied with thunderstorm & lightning at isolated places on 07th & 08th and with gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) at isolated places on 09th – 10th April. Light to moderate rain at some places on 11th & 12th April. |
| 7. | Odisha | <ul style="list-style-type: none"> Light to moderate rain accompanied with thunderstorm & lightning at isolated places on 06th; with gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) at isolated places on 07th & 08th and with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) at isolated places on 09th April. Light to moderate rain at isolated places during 10th-12th April. Heavy rainfall at isolated places likely on 08th April. Hailstorm also likely at isolated places on 07th April. |
| 8. | Gangetic West Bengal | <ul style="list-style-type: none"> Light to moderate rain accompanied with thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) at isolated places on 06th; with squally winds (speed reaching 50-60 kmph) at isolated places on 07th; with gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) at isolated places 08th April. Light to moderate rain at isolated places during 09th-12th April. |
| 9. | Jharkhand | <ul style="list-style-type: none"> Light to moderate rain at isolated places on 06th April. Light to moderate rain accompanied with thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) at isolated places on 07th and with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) at isolated places during 08th - 10th April. Light to moderate rain at isolated places on 11th & 12th April. |

For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

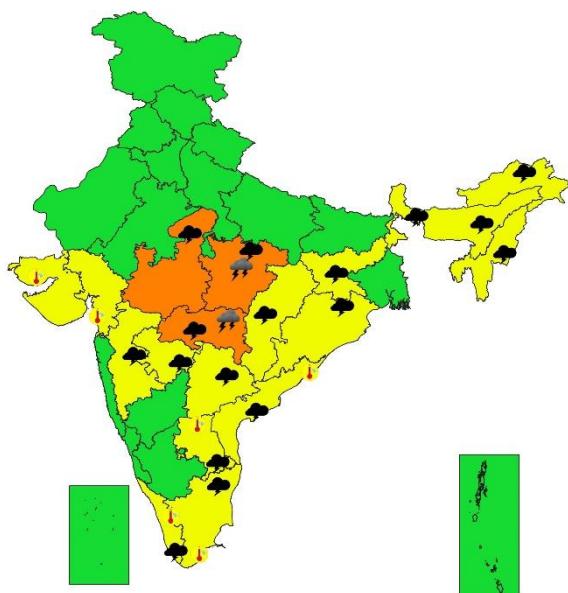
Surendra Pratap Singh
Scientist 'C'
NWFC, IMD New Delhi

ANNEXURE I





SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
09-04-2024

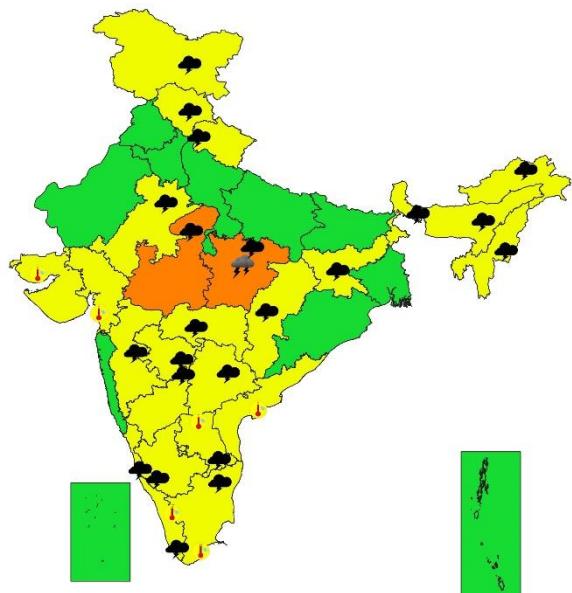


Subdivision Warning

| | | |
|----------------------|------------|----------------------|
| 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
10-04-2024



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 & Action Suggested due to heavy/very heavy rainfall over Odisha on 08th April.

Impacts Expected for Rain/Snow

- ❖ Disruption of Electricity.
- ❖ Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nallahs.
- ❖ Disruption of traffic flow.
- ❖ Damage to Kuccha and unsecured structures.

Suggested Actions

- ❖ Avoid roadway underpasses, drainage ditches, low lying areas and areas where water collects – they can unexpectedly flood or overflow.
- ❖ Stay away from power lines or electrical wires.
- ❖ Don't stay in kuchcha houses during heavy rainfall as it may collapse anytime soon.
- ❖ Drive carefully.

Impact expected and action suggested due to thunderstorm with lightning/gusty winds & Hailstorm over Gangetic West Bengal, Odisha on 07th; over East Madhya Pradesh during 07th-10th; West Madhya Pradesh during 08th-10th; Vidarbha during 07th-09th; over Chhattisgarh on 07th & 08th and over Marathwada on 08th April, 2024.

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 kutchha 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.

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 | |
|------------------------|-------------------------------|
| Terms | Probability of Occurrence (%) |
| Unlikely | < 25 |
| Likely | 25 - 50 |
| Very Likely | 50 - 75 |
| Most Likely | > 75 |

| Flash Flood Risk | |
|-----------------------------|--|
| High Risk (Take Action) | |
| Moderate Risk (Be Prepared) | |
| Low Risk (Be Updated) | |