



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

**Press Release**

**Date: 26<sup>th</sup> November, 2023**

**Time of Issue: 1430 hours IST**

**Subject: Isolated heavy rainfall accompanied with thunderstorm and hailstorm activities likely over Gujarat state, southeast Rajasthan, southwest Madhya Pradesh, north Konkan, north Madhya Maharashtra, Marathwada on 26<sup>th</sup> and over Vidarbha on 27<sup>th</sup> & 28<sup>th</sup> November, 2023.**

❖ **Rainfall recorded during past 24 hours till 0830 hours IST of today: Heavy to very heavy rainfall** at isolated places over Tamil Nadu and heavy rainfall at isolated places over Madhya Maharashtra, Andaman & Nicobar Islands and Kerala & Mahe.

❖ **Significant Rainfall Amount:**

- **Tamil Nadu:** Sethiathope (dist Cuddalore) 17, Lalpet (dist Cuddalore), Kothavacherry (dist Cuddalore), Kollidam (dist Mayiladuthurai), Srimushnam (dist Cuddalore) 11 each, Bhuvanagiri (dist Cuddalore), Kattumannar Koil (dist Cuddalore), Vepur (dist Cuddalore) 9 each, Nalumukku (dist Tirunelveli), Oothu (dist Tirunelveli), Cuddalore Collector Office (dist Cuddalore), Labbaikudikadu (dist Perambalur), Parangipettai (dist Cuddalore) 8 each, Pelandurai (dist Cuddalore), Kakkachi (dist Tirunelveli), Marakkanam (dist Villupuram), Cuddalore (dist Cuddalore), Puducherry (dist Puducherry), Sirkali (dist Mayiladuthurai), Manjolai (dist Tirunelveli), Kurinjipadi (dist Cuddalore) 7 each;
- **Andaman & Nicobar Islands:** Car Nicobar-7;
- **Kerala & Mahe:** Kayamkulam (dist Alapuzha) 8;
- **Madhya Maharashtra:** Satara - Imd Obsy (dist Satara) 7.

**Weather Systems and Forecast & Warnings during next 5 days (graphics in Annexure II)**

A **Western Disturbance** as a trough in middle & upper tropospheric westerlies runs roughly along Long. 64°E to north of Lat 15°N.

- ✓ An **Induced Cyclonic Circulation** lies over central Pakistan & adjoining West Rajasthan at lower levels.
- ✓ An upper air **Trough** in easterlies runs from Southwest Arabian Sea to Northeast Arabian Sea and extends upto mid-tropospheric levels with an embedded **Cyclonic Circulation** over Northeast Arabian Sea & adjoining Saurashtra & Kutch coasts in the lower tropospheric levels.
- ✓ Thus, there is interactions between the middle latitude westerlies with the lower level trough in easterlies. **Due to such interaction:**

- Light to moderate rainfall at many places accompanied with isolated thunderstorm & lightning is likely over Gujarat State, south Rajasthan on 26<sup>th</sup> November; over Konkan & Goa, Marathwada and Madhya Maharashtra and south Madhya Pradesh during 26<sup>th</sup> and 27<sup>th</sup> and over Vidarbha during 27th to 28<sup>th</sup> November with significant reduction thereafter.
- **Isolated heavy rainfall likely over Gujarat state**, southeast Rajasthan, southwest Madhya Pradesh, north Konkan, north Madhya Maharashtra, Marathwada and Tamil Nadu, Puducherry & Karaikal on 26th; over Vidarbha on 27<sup>th</sup> & 28<sup>th</sup> November, 2023. **Isolated very heavy rainfall likely over** Gujarat region on 26th November, 2023.
- **Hailstorm also likely** at isolated places over Uttarakhand, south Rajasthan and north Madhya Maharashtra on 26<sup>th</sup>; over southwest Madhya Pradesh and north Marathwada on 26<sup>th</sup> & 27<sup>th</sup> November and over Uttarakhand, East Madhya Pradesh and Vidarbha on 27<sup>th</sup> November.
- Light rainfall at isolated places also likely over Western Himalayan Region and plains of Northwest India during 26<sup>th</sup>-28<sup>th</sup> November. **Thunderstorm & lightning** at isolated places over Himachal Pradesh and Uttarakhand on 27<sup>th</sup> November.

➤ The **Cyclonic Circulation** over south Thailand & adjoining South Andaman Sea & neighbourhood now lies over South Andaman Sea & adjoining south Thailand and extends upto 5.8 km above mean sea level. Under its influence, a **Low Pressure Area** is likely to form over South Andaman Sea & adjoining Southeast Bay of Bengal around 27<sup>th</sup> November. It is likely to move west-northwestwards and intensify into a **Depression** over Southeast Bay of Bengal around 29<sup>th</sup> November, 2023. Under its influence:

- Light to moderate rainfall at many places accompanied with isolated **thunderstorm & lightning** is likely over Andaman & Nicobar Islands during 26<sup>th</sup> -29<sup>th</sup> November, 2023. Isolated **heavy rainfall** also likely over Nicobar Islands on 26<sup>th</sup>; and over Andaman Islands on 27<sup>th</sup> & 28<sup>th</sup>. Isolated **very heavy rainfall** very likely over Nicobar Islands on 27<sup>th</sup> November.
- **Squally weather (wind speed reaching 40-45 kmph gusting to 55 kmph)** very likely to prevail South and adjoining North Andaman Sea on 27<sup>th</sup> and **Squally weather (wind speed reaching 45-55 kmph gusting to 65 kmph)** over Southeast Bay of Bengal & adjoining Andaman Sea during 28<sup>th</sup>-29<sup>th</sup> November; over Central Bay of Bengal during 29<sup>th</sup> November to 02<sup>nd</sup> December. **Fishermen are advised not to venture into these areas. (graphics in Annexure III)**

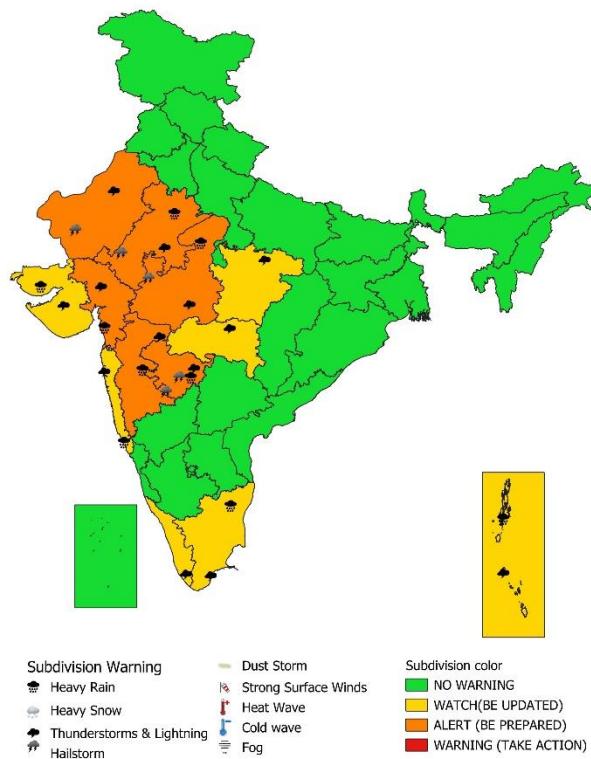
❖ **Minimum temperatures are likely to fall by 2-3°C over most parts of Northwest India from 27<sup>th</sup>; over most parts of central India from 29<sup>th</sup> November, 2023.**

❖ **No significant weather likely over rest parts of the country.**

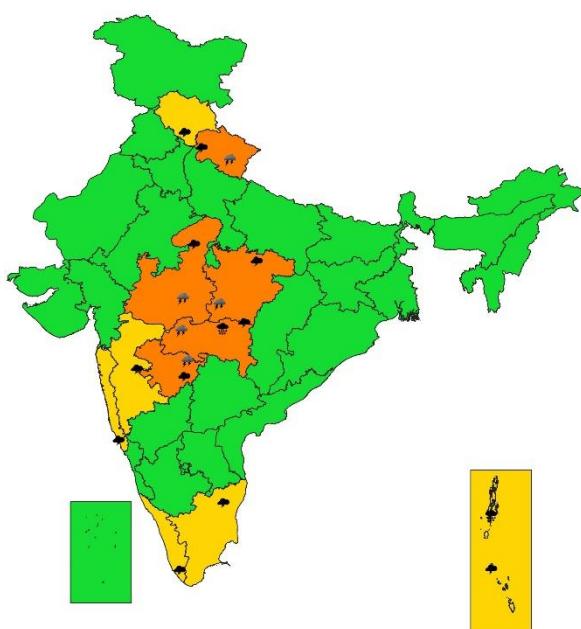
For more details kindly refer: [https://mausam.imd.gov.in/responsive/all\\_india\\_forcast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php) and <https://mausam.imd.gov.in/responsive/cycloneinformation.php>



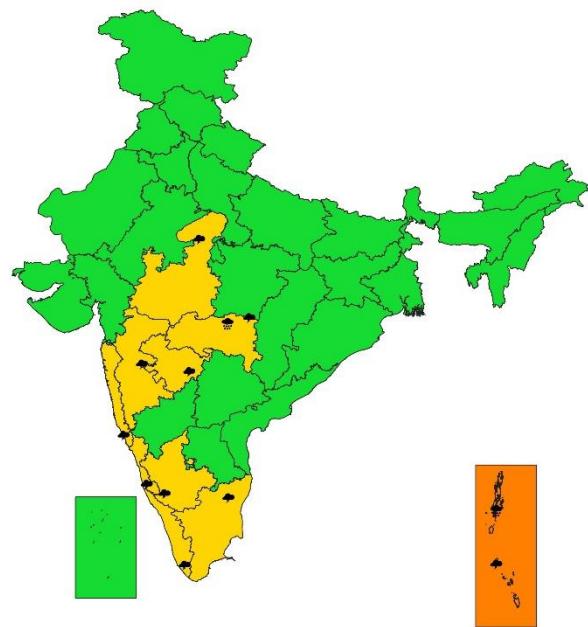
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1  
( 26-11-2023 )



SUBDIVISIONWISE WEATHER WARNING FOR DAY 2  
( 27-11-2023 )

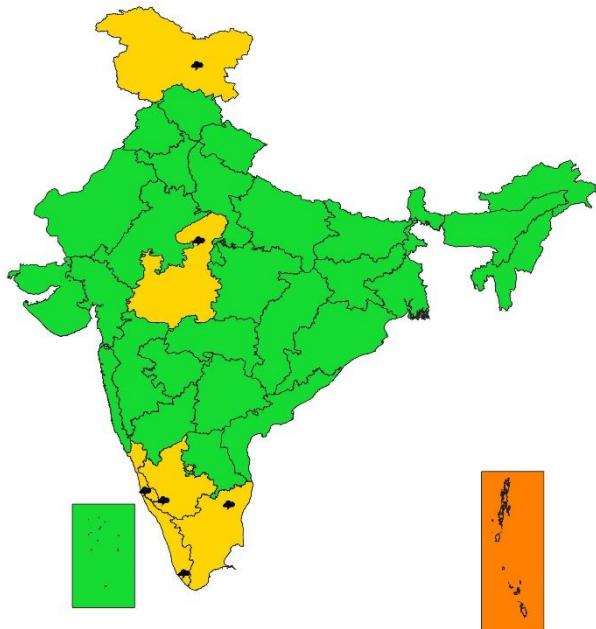


SUBDIVISIONWISE WEATHER WARNING FOR DAY 3  
( 28-11-2023 )





SUBDIVISIONWISE WEATHER WARNING FOR DAY 4  
( 29-11-2023 )

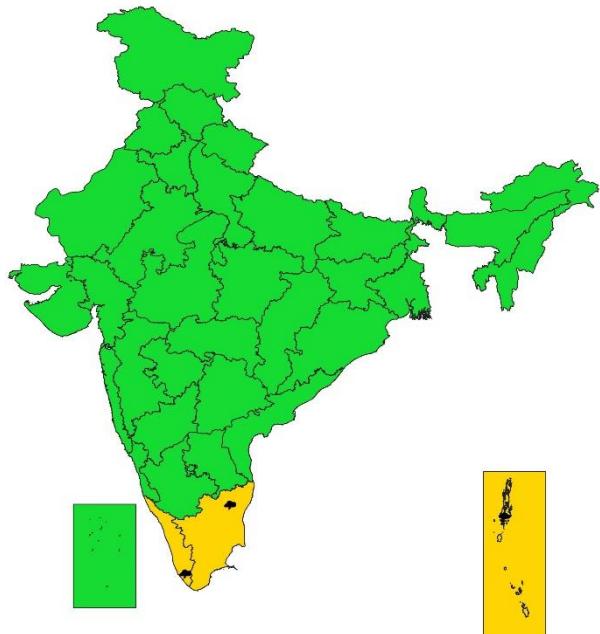


Subdivision Warning  
Heavy Rain  
Heavy Snow  
Thunderstorms & Lightning  
Hailstorm  
Dust Storm  
Strong Surface Winds  
Heat Wave  
Cold wave  
Fog

Subdivision color  
NO WARNING  
WATCH(BE UPDATED)  
ALERT (BE PREPARED)  
WARNING (TAKE ACTION)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5  
( 30-11-2023 )



Subdivision Warning  
Heavy Rain  
Heavy Snow  
Thunderstorms & Lightning  
Hailstorm  
Dust Storm  
Strong Surface Winds  
Heat Wave  
Cold wave  
Fog

Subdivision color  
NO WARNING  
WATCH(BE UPDATED)  
ALERT (BE PREPARED)  
WARNING (TAKE ACTION)

**Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over** Rajasthan and Madhya Maharashtra on 26<sup>th</sup>; over West Madhya Pradesh and Marathwada on 26<sup>th</sup> & 27<sup>th</sup> and over East Madhya Pradesh on 27<sup>th</sup> November, 2023.

**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.

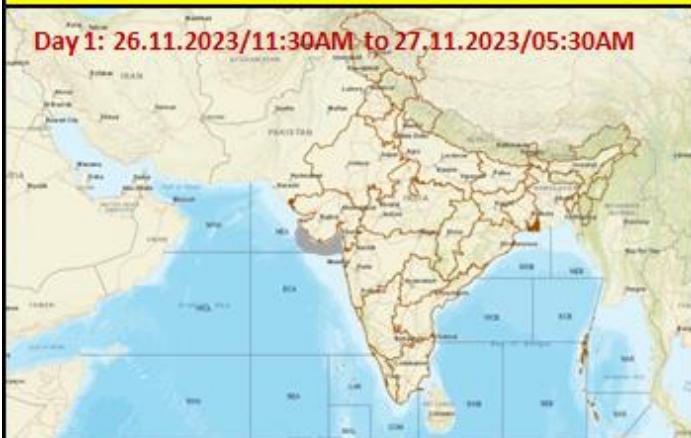
**Agromet advisories for heavy rainfall, gusty winds and hailstorms likely over various parts of the country**

**(Based on the IBF and advisories issued by different AMFUs and DAMUs)**

- Make necessary arrangements for draining out excess water from crop fields in south Rajasthan, West Madhya Pradesh, north Madhya Maharashtra, north Marathwada, Gujarat region and Andaman & Nicobar Islands.
- Use hail nets in orchards for protection of fruits and provide staking to vegetables in south Rajasthan, Madhya Pradesh, north Madhya Maharashtra and north Marathwada.
- Keep harvested produce in safer places or cover the harvested produce in the fields with tarpaulin/polythene sheets.
- Drain out excess water from standing crop fields to avoid water stagnation in Tamil Nadu and Coastal Andhra Pradesh.
- Provide mechanical support to horticultural crops.

**Fishermen warning graphics**

**Day 1: 26.11.2023/11:30AM to 27.11.2023/05:30AM**



**Day 2: 27.11.2023/05:30AM to 28.11.2023/05:30AM**



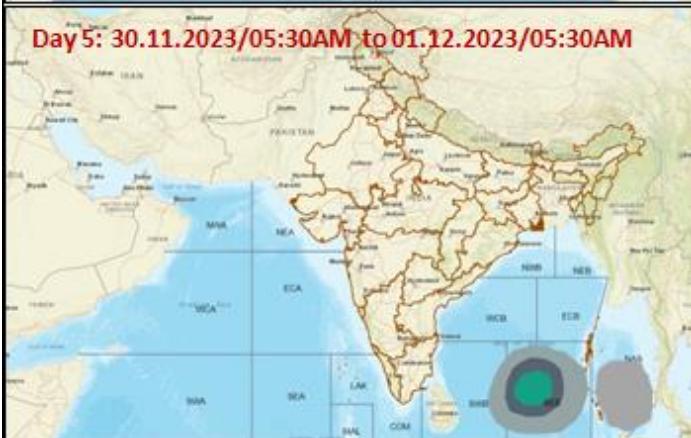
**Day 3: 28.11.2023/05:30AM to 29.11.2023/05:30AM**



**Day 4: 29.11.2023/05:30AM to 30.11.2023/05:30AM**



**Day 5: 30.11.2023/05:30AM to 01.12.2023/05:30AM**



Squally WX with wind speed 40-45 kmph gusting to 55 kmph

Squally WX with wind speed 45-55 kmph gusting to 65 kmph

Squally wind with speed 50-60 kmph gusting to 70 kmph

**Fishermen are advised not to venture into the marked areas.**

## Legends:

- ❖ **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
- ❖ **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 Widespred (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	
Color	Description
Red	High Risk (Take Action)
Orange	Moderate Risk (Be Prepared)
Yellow	Low Risk (Be Updated)