



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

**Press Release
Date: 04th January, 2022
Time of Issue: 1330 hrs IST**

Subject:

- I. Wet spell over northwest & central India till 9th January due to two consecutive active Western Disturbances.**
- II. No Cold Wave Conditions likely over North India during next 6-7 days.**

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

- Minimum temperatures are above normal by 2-5°C over most parts of Northwest India (excluding Uttar Pradesh), West Madhya Pradesh and Gujarat and near normal over rest part of North & adjoining central India.
- **Fog** (at 0830 hours IST of today): **Dense to very dense fog** occurred in isolated pockets over East Uttar Pradesh and **Dense Fog** over Sub-Himalayan West Bengal & Sikkim, Bihar.
- **Rainfall observed (in cm)** over Gulmarg, Kargil-2 each, Pahalgam, Gund, Avantipur, Banihal, Batote and Srinagar-1 each.

Forecast & Warnings:

I. Wet spell over northwest & central India till 9th January:

- The Western Disturbance as a trough in westerlies in lower & middle tropospheric levels with its axis at 5.8 km above mean sea level roughly along Long. 55°E to the north of Lat. 30°N persists. Under its influence, an induced cyclonic circulation has formed over southwest Rajasthan & adjoining Pakistan at lower tropospheric levels. There is moisture feeding from Arabian Sea over northwest India and likely to continue during next 2 days. Under its influence:
 - ✓ Fairly widespread to widespread light/moderate rainfall/snowfall very likely over Western Himalayan Region on 04th & 05th and scattered on 06th January. **Isolated heavy rainfall/snowfall** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 04th & 05th and over Himachal Pradesh & Uttarakhand on 05th January.
 - ✓ Scattered to fairly widespread light/moderate rainfall very likely over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan, West Uttar Pradesh during 04th to 06th; isolated to scattered over south Rajasthan, Gujarat, West Madhya Pradesh and East Uttar Pradesh on 05th & 06th January.
 - ✓ **Isolated heavy rainfall** is very likely over Punjab on 05th January.
 - ✓ **Isolated thunderstorm activity accompanied with Hailstorms** very likely over Punjab and Haryana & Chandigarh on 05th; over East Uttar Pradesh & West Madhya Pradesh on 6th January.

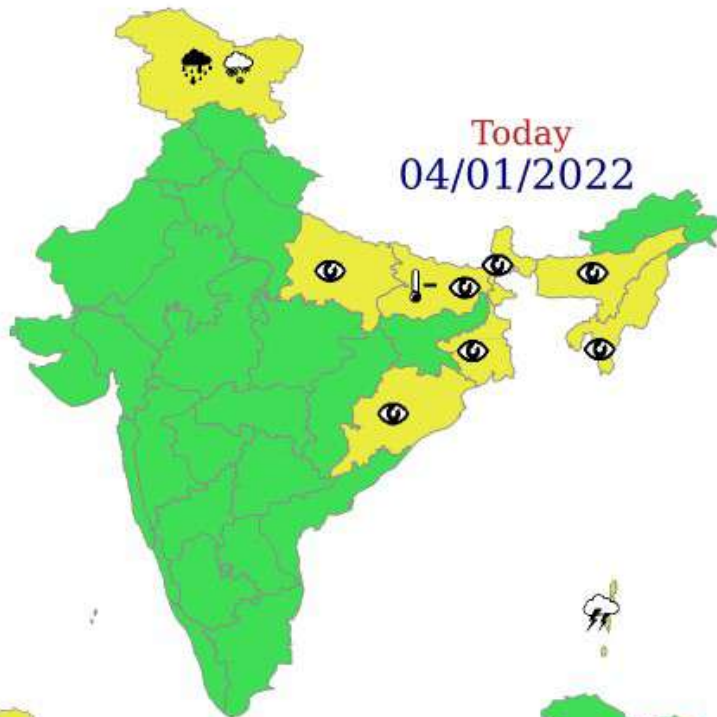
- **Thereafter, an intense Western Disturbance is very likely to affect Northwest India from the night of 06th January, 2022 onwards. Under its influence, an induced cyclonic circulation very likely to form over southwest Rajasthan & neighbourhood on 07th January, 2022. High moisture feeding from Arabian Sea is also very likely over northwest India during 07th to 09th January, 2022. Under its influence:**

- ✓ Fairly widespread to widespread rainfall/snowfall very likely over Western Himalayan Region during 07th to 09th January and decrease thereafter.
- ✓ Isolated **heavy rainfall/snowfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 07th to 09th and over Himachal Pradesh on 08th & 09th January.
- ✓ Scattered to fairly widespread light/moderate rainfall/thunderstorm over plains of northwest & adjoining central India during 07-09 January.
- ✓ Isolated **heavy rainfall** is very likely over Punjab on 07th & 08th & over Haryana on 08th January.
- ✓ Isolated thunderstorm activity accompanied with **Hailstorms** very likely over Punjab on 07th; East Uttar Pradesh, West Madhya Pradesh and Rajasthan on 07th and over East Madhya Pradesh on 07th & 08th January, 2022.

II. Minimum Temperatures, Cold Wave and Fog:

- i) Minimum temperatures are above normal by 2-5°C over most parts of Northwest India (excluding Uttar Pradesh), West Madhya Pradesh and Gujarat and near normal over rest part of North & adjoining central India.
- ii) Gradual rise in minimum temperatures by 2-4°C very likely over most parts of Northwest & Central India during next 2 days and no significant change thereafter for subsequent 3 days. Hence, **no Cold Wave Conditions likely over Northwest India during next 6-7 days.**
- iii) No significant change in minimum temperatures very likely over East India during next 2 days and rise by 2-4°C thereafter.
- iv) **Dense Fog** in isolated pockets in night/morning hours very likely over East Uttar Pradesh during next 24 hours; over Bihar, West Bengal & Sikkim, Odisha during next 3 days and over west Assam & Meghalaya and Tripura during next 2 days.

For more details refer: https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php



EXPECTED IMPACT & ACTION SUGGESTED due to isolated heavy rainfall/snowfall Jammu & Kashmir on 04th, 05th, 07th & 08th; over Himachal Pradesh on 05th & 08th; over Uttarakhand on 05th January, 2022.

A. Impact Expected

- Localized Flooding of roads, inundation and water logging in low lying areas and closure of underpasses mainly in urban areas of the affected region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

B. Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.
- Harvest the ripen crops like Paddy & Horticultural crops and also secure the harvested crops securely from the damage due to rain and strong winds.

Impact expected and action suggested due to Thunderstorm, Lightning & Hail over Punjab on 05th & 07th; over Haryana on 05th; East Uttar Pradesh on 06th & 07th; Rajasthan on 07th; West Madhya Pradesh on 06th & 07th and East Madhya Pradesh on 07th & 08th January 2022.

Impact expected:

- Hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.

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:

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:** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; Himachal Pradesh, 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)



Heavy Rain

Strong Winds

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

 Thunderstorm with Lightning

 Visibility/Fog

 Cold wave/Cold day

 Frost