



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release

Date: 21st January, 2022

Time of Issue: 1245 hrs IST

Subject: I) Wet spell over Northwest and adjoining Central India during 21st-24th; over East India during 22nd -24th and over Northeast India during 23rd -25th January, 2022.

II) Conditions are favourable for cessation of Northeast Monsoon rains over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and adjoining areas of coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka on 22nd January, 2022.

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

- **Cold Day to severe cold day conditions** prevailed in isolated pockets over Uttar Pradesh and **cold day conditions** in isolated pockets over West Madhya Pradesh and Bihar.
- Minimum temperatures are below normal by 2-4°C at a few places over Uttar Pradesh, East Madhya Pradesh and above normal by 2-4°C at many places over Gujarat, Rajasthan, Punjab, Haryana, West Madhya Pradesh and at isolated paces over Bihar and near normal over rest parts of north India.
- **Very dense fog** prevailed in isolated pockets of Punjab, Haryana, Chandigarh, Bihar, East Rajasthan, Madhya Pradesh and Uttar Pradesh and **Dense fog** in isolated pockets of Saurashtra & Kutch, Odisha and Assam.

Synoptic Situations:

- A Western Disturbance (WD) lies as a cyclonic circulation over north Pakistan at 3.1 km above mean sea level. Another WD as a trough in westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 52°E to the north of Lat. 32°N.
- An induced cyclonic circulation lies over south Pakistan & adjoining southwest Rajasthan in lower tropospheric levels.
- A cyclonic circulation lies over central parts of Madhya Pradesh in lower tropospheric levels.

Forecast & Warnings:

- ✓ Isolated to scattered rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh & Uttarakhand during next 24 hours and increase thereafter with fairly widespread to widespread rainfall/snowfall on 22nd & 23rd January and reduction thereafter. Isolated **heavy rainfall/snowfall** very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh on 22nd & 23rd January.

- ✓ Isolated to scattered rainfall very likely over Punjab, Haryana, Chandigarh, Delhi, Uttar Pradesh 21st and increase thereafter with fairly widespread to widespread rainfall on 22nd & 23rd January. Isolated to scattered rainfall over Rajasthan during 21st-22nd; Chhattisgarh during 22nd-24th and Madhya Pradesh on 22nd & 23rd January. Isolated **heavy rainfall** likely over north Punjab & Haryana on 22nd January.
- ✓ Scattered to fairly widespread rainfall very likely over Bihar, Jharkhand and West Bengal & Sikkim during 22nd-24th January.
- ✓ **Isolated thunderstorm with lightning & hail** very likely over West Madhya Pradesh and Rajasthan on 21st & 22nd; over Himachal Pradesh, Punjab, Haryana, Chandigarh, Delhi, East Madhya Pradesh on 22nd January; over Uttrakhand, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal on 22nd & 23rd and over Jharkhand, Chhattisgarh and Gangetic West Bengal on 23rd January, 2022.
- ✓ Strong surface winds (20-30 kmph) very likely over Punjab, Haryana, Chandigarh & Delhi, Rajasthan and west Uttar Pradesh on 21st & 22nd January and over East Uttar Pradesh on 23rd January, 2022.
- ✓ Fairly widespread to widespread rainfall very likely over northeast India during 23rd-24th January.

Fog and Cold Day:

- ✓ No significant change in minimum temperatures over Northwest India during next 2 days and fall by 4-6°C thereafter.
- ✓ No significant change in minimum temperatures over Madhya Pradesh during next 3 days and fall by 4-6°C thereafter.
- ✓ No significant change in minimum temperatures over Maharashtra during next 2 days and fall by 2-3°C thereafter.
- ✓ No significant change in minimum temperatures over Gujarat state during next 24 hours and fall by 4-6°C thereafter.
- ✓ Gradual rise in minimum temperatures by 2-3°C over East India during next 2 days and no significant change for subsequent 3 days.
- ✓ **Dense Fog** very likely in isolated pockets over Uttar Pradesh and Bihar on night of 21st and morning hours of 22nd and over north Rajasthan & north Madhya Pradesh during 23rd-26th January.
- ✓ **Cold Day Conditions** very likely to prevail in isolated pockets of Uttar Pradesh during next 24 hours.

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 and Himachal Pradesh on 22nd & 23rd 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 West Madhya Pradesh and Rajasthan on 21st & 22nd; over Himachal Pradesh, Punjab, Haryana, Chandigarh, Delhi, East Madhya Pradesh on 22nd January; over Uttrakhand, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal on 22nd & 23rd and over Jharkhand, Chhattisgarh and Gangetic West Bengal on 23rd 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



Thunderstorm with Lightning



Visibility/Fog



Cold wave/Cold day



Frost

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