



**Government of India
Earth System Science Organization
Ministry of Earth Sciences
India Meteorological Department**

**Press Release
Date: 12th January, 2020
Time of Issue: 1830 hrs IST**

Subject: Wet spell over Western Himalayan region & plains of northwest India during 12-17 January 2020 due to two successive Western Disturbances with its peak activities on 13th & 16th January, 2020

Meteorological features:

- A Western Disturbance (WD) as a cyclonic circulation lies over East Iran & neighbourhood at 3.1 Km above mean sea level with trough aloft at mid & upper tropospheric levels.
- The associated induced cyclonic circulation (CC) lies over south Pakistan & neighbourhood at lower tropospheric levels.
- Another WD along with its induced CC in quick succession is very likely to affect Western Himalayan Region (Jammu & Kashmir, Ladakh, Himachal Pradesh and Uttarakhand) & plains of northwest India during 15th to 17th Jan 2020.

Forecast & warning associated with 1st WD

- There is high moisture feed from the Arabian Sea over WHR, high divergence over WHR & neighbourhood due to strong jet stream at higher levels in association with WD, fairly widespread to widespread precipitation is very likely over WHR on today, the 12th January, its intensity & spread would increase on tomorrow, 13th with widespread precipitation over WHR. **Isolated heavy falls** is also very likely over Jammu & Kashmir on today; **Heavy rain/snow at a few places with isolated Heavy falls** very likely over Jammu & Kashmir and **heavy rain/snow** in isolated places over Himachal Pradesh and Uttarakhand on 13th. Its intensity & spread very likely to decrease over the region with light isolated to scattered precipitation over region on 14th January, 2020.
- Light to moderate scattered/fairly widespread rain/thundershower very likely over Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh, and Rajasthan on 13th January with possibility of **isolated heavy rainfalls** over north Punjab and north Haryana & Chandigarh. Light isolated to scattered rainfall likely over region on 14th January, 2020.
- Isolated thunderstorm along with hail & lightning is also likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Rajasthan on 13th January, 2020.

Forecast & warning associated with 2nd WD

- The 2nd WD very likely to cause light isolated precipitation over WHR on 15th and fairly widespread to widespread precipitation with possibility **isolated heavy rainfall/snowfall** on 16th and light to moderate scattered/fairly widespread on 17th January, 2020.
- Light isolated to scattered rain/thundershower very likely over Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh and Rajasthan on 15th. Its intensity & spread very likely to increase over the region due to formation of induced CC over south Rajasthan on 16th January. Hence light to moderate fairly widespread/widespread rain/thundershower very likely above region with possibility

of **isolated heavy rainfalls** over Punjab, Haryana & Chandigarh and West Uttar Pradesh. Light isolated to scattered rainfall likely over region on 17th January, 2020.

- **Likely Impact of severe weather on 13th and 16th Jan 2020:** Due to likely heavy rain/snow on 13th and 16th January, 2020 across the hill states of northwest India covering Jammu & Kashmir and Himachal Pradesh would led to disruptions in transportation at major highways in the region particularly Jammu to Kashmir highway. It likely to cause avalanches in the higher reaches of hills in these states.

Detailed forecast & warnings for next 5 days are as follows:

Sub-Divisions	12 Jan. 2020*	13 Jan. 2020*	14 Jan. 2020*	15 Jan. 2020*	16 Jan. 2020*
Jammu & Kashmir	Rain/snow at most places with heavy falls at isolated places	Rain/snow at most places with heavy falls at a few places & very heavy falls at isolated places	Rain/snow at isolated places	Rain/snow at isolated places	Rain/Snow at a few places
Himachal Pradesh	Rain/snow at many places	Rain/Snow at most places with heavy falls and thunderstorm accompanied with lightning & hailstorm at isolated places	Rain/snow at a few places	Rain/snow at isolated places	Rain/Snow at most places with heavy falls and thunderstorm accompanied with lightning and hailstorm at isolated places
Uttarakhand	Rain/snow at isolated places	Rain/Snow at most places with heavy falls and thunderstorm accompanied with lightning and hailstorm at isolated places	Rain/snow at a few places	Rain/snow at isolated places	Rain/Snow at most places with heavy falls and thunderstorm accompanied with lightning and hailstorm at isolated places
Punjab	Rainfall at isolated places	Rainfall at most places with heavy falls and thunderstorm accompanied with lightning and hailstorm at isolated places	Rainfall at isolated places	Rainfall at isolated places	Rainfall at many places with heavy falls and thunderstorm accompanied with lightning and hailstorm at isolated places
Haryana, Chandigarh & Delhi	Dry	Rainfall at many places with heavy falls and thunderstorm accompanied with lightning and hailstorm at isolated places	Rainfall at isolated places	Rainfall at a few places	Rainfall at many places with heavy falls and thunderstorm accompanied with lightning and hailstorm at isolated places
West Uttar Pradesh	Dry	Rainfall at a few places with thunderstorm accompanied with lightning and hailstorm at isolated places	Dry	Rainfall at a few places	Rainfall at many places with thunderstorm accompanied with lightning and hailstorm at isolated places
East Uttar Pradesh	Dry	Rainfall at isolated places	Rainfall at isolated places	Rainfall at isolated places	Rainfall at many places with heavy falls at isolated places
West Rajasthan	Rainfall at isolated places	Rainfall at a few places with thunderstorm accompanied with lightning and hailstorm at isolated places	Dry	Rainfall at isolated places	Rainfall at isolated places with thunderstorm accompanied with lightning and hailstorm at isolated places
East Rajasthan	Dry	Rainfall at isolated places with thunderstorm accompanied with lightning and hailstorm at isolated places	Dry	Rainfall at isolated places	Rainfall at a few places with thunderstorm accompanied with lightning and hailstorm at isolated places

Note: * Rainfall till 0830 IST of next day.

Legends: **Yellow: Be updated, Orange- Be prepared; Red- Take action, Green: No warning**
 Heavy rain: 64.5-115.5 mm/day; Very heavy rain: 115.6-204.4 mm/day; Extremely heavy rain: more than 204.4 mm/day

For further details and forecast updates kindly visit websites of IMD, New Delhi:

<http://www.imd.gov.in/pages/allindiawxbulletin.php>

For district level warning, kindly visit website of Meteorological Centres/Regional Meteorological Centres of IMD at state levels