



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

**Press Release**

**Date: 9<sup>th</sup> Sept, 2019**

**Time: 2000 hours IST**

**Sub: Ongoing intense rainfall activity over Madhya Pradesh and adjoining Gujarat**

**Current Meteorological conditions**

- A Low Pressure area with associated cyclonic circulation extending upto middle tropospheric levels lies over northeast Madhya Pradesh & neighbourhood. It is very likely to persists over same area during next 48 hours and weaken into a cyclonic circulation in lower & middle tropospheric level over same region during subsequent 48 hours.
- An east-west oriented shear zone runs along Lat. 22°N at middle tropospheric levels passing through the above low pressure area.

**Observed Rainfall:**

- Rainfall recorded at 0830 hours IST of 09.09.2019 during past 24 hours (in cm): Seoni-31.3, Vidisha-17.8, Harda-17.6, Keolari-14.7, Bhopal-14.0, Garoth-13.8, Raisen-13.1 and Khategaon-12.8.
- Rainfall recorded at 1730 hours IST of 09.09.2019 during past 9 hours (in cm): Sidhi-5.8, Gwalior-3.5, Jabalpur-2.9 and Hoshangabad-2.5.

**Forecast & Warnings**

- In association with above mentioned weather systems, widespread rainfall with heavy to very heavy falls and isolated extremely heavy falls very likely over west Madhya Pradesh during 9<sup>th</sup> & 10<sup>th</sup> Sept. and Fairly widespread to widespread rainfall with isolated heavy to very heavy falls during 11<sup>th</sup> to 13<sup>th</sup> Sept. Fairly widespread to widespread rainfall with isolated heavy falls very likely over East Madhya Pradesh during 9<sup>th</sup> to 13<sup>th</sup> Sept.
- Fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely over Gujarat state during 9<sup>th</sup> & 10<sup>th</sup> Sept.

### Detailed rainfall Forecast & Warnings:

Sub-Division	09 August*	10 August*	11 August*	12 August*	13 August*
<b>West Madhya Pradesh</b>	Widespread rainfall with heavy to very heavy and extremely heavy falls at isolated places	Widespread rainfall with heavy to very heavy and extremely heavy falls at isolated places	Widespread rainfall with heavy to very heavy falls at isolated places	Fairly widespread rainfall with heavy to very heavy falls at isolated places	Fairly widespread rainfall with heavy to very heavy falls at isolated places
<b>East Madhya Pradesh</b>	Widespread rainfall with heavy falls at isolated places	Fairly widespread rainfall with heavy falls at isolated places	Fairly widespread rainfall with heavy falls at isolated places	Fairly widespread rainfall with heavy falls at isolated places	Fairly widespread rainfall with heavy falls at isolated places
<b>Gujarat Region</b>	Widespread rainfall with isolated heavy to very heavy falls	Fairly widespread rainfall with isolated heavy to very heavy falls	Scattered rainfall	Scattered rainfall	Scattered rainfall
<b>Saurashtra &amp; Kutch</b>	Widespread rainfall with isolated heavy to very heavy falls	Fairly widespread rainfall with isolated heavy falls	Scattered rainfall	Isolated rainfall	Isolated rainfall

### Experimental Impact forecast based on heavy rainfall warning

Date	Met. Sub-Divisions with 'Red color' warnings	Expected impact corresponding to "Red color" warning
09.09.19	West Madhya Pradesh	<ul style="list-style-type: none"> <li>• Localized Flooding of roads, water logging in low lying areas and closure of underpasses.</li> <li>• Occasional reduction in visibility due to heavy rainfall.</li> <li>• Disruption of traffic flow in major cities due to water logging in roads leading to increased travel time.</li> <li>• Minor damage to kutchha roads.</li> <li>• Possibilities of damage to vulnerable structure</li> <li>• Localized Mudslides.</li> <li>• Damage to horticulture crops</li> </ul>
10.09.19	West Madhya Pradesh	
11.09.19	West Madhya Pradesh	
12.09.19	West Madhya Pradesh	

**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, Widespread/at most places (76-100% stations), Fairly widespread/at many places (51-75% stations), Scattered/at a few places (26-50% stations) and Isolated places (01-25% stations).

**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