



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

**Press Release  
Date: 18<sup>th</sup> September, 2022  
Time of Issue: 1230 hrs IST**

**Subject: (i) Conditions are becoming favorable for withdrawal of Southwest Monsoon from parts of Northwest India during next 3 days.  
(ii) A fresh spell of heavy rainfall over Odisha, Coastal areas north Andhra Pradesh & Gangetic West Bengal from 19<sup>th</sup> to 21<sup>st</sup> and over Vidharbha, Chhattisgarh & East Madhya Pradesh on 21<sup>st</sup> & 22<sup>nd</sup> September, 2022.**

**Weather observed during past 24 hours ending at 0830 hrs IST of today: (Refer Annex. I)**

**Withdrawal of Southwest Monsoon**

- Due to anti-cyclonic flow over northwest India at lower tropospheric levels, dry weather is very likely over West Rajasthan, Punjab, Haryana, Chandigarh & Delhi during next 05 days. Hence conditions are becoming favorable for withdrawal of Southwest Monsoon from parts of Northwest India during next 3 days.

**Weather systems, rainfall/thunderstorm Forecast & Warnings: (Warning Graphics in Annexure II)**

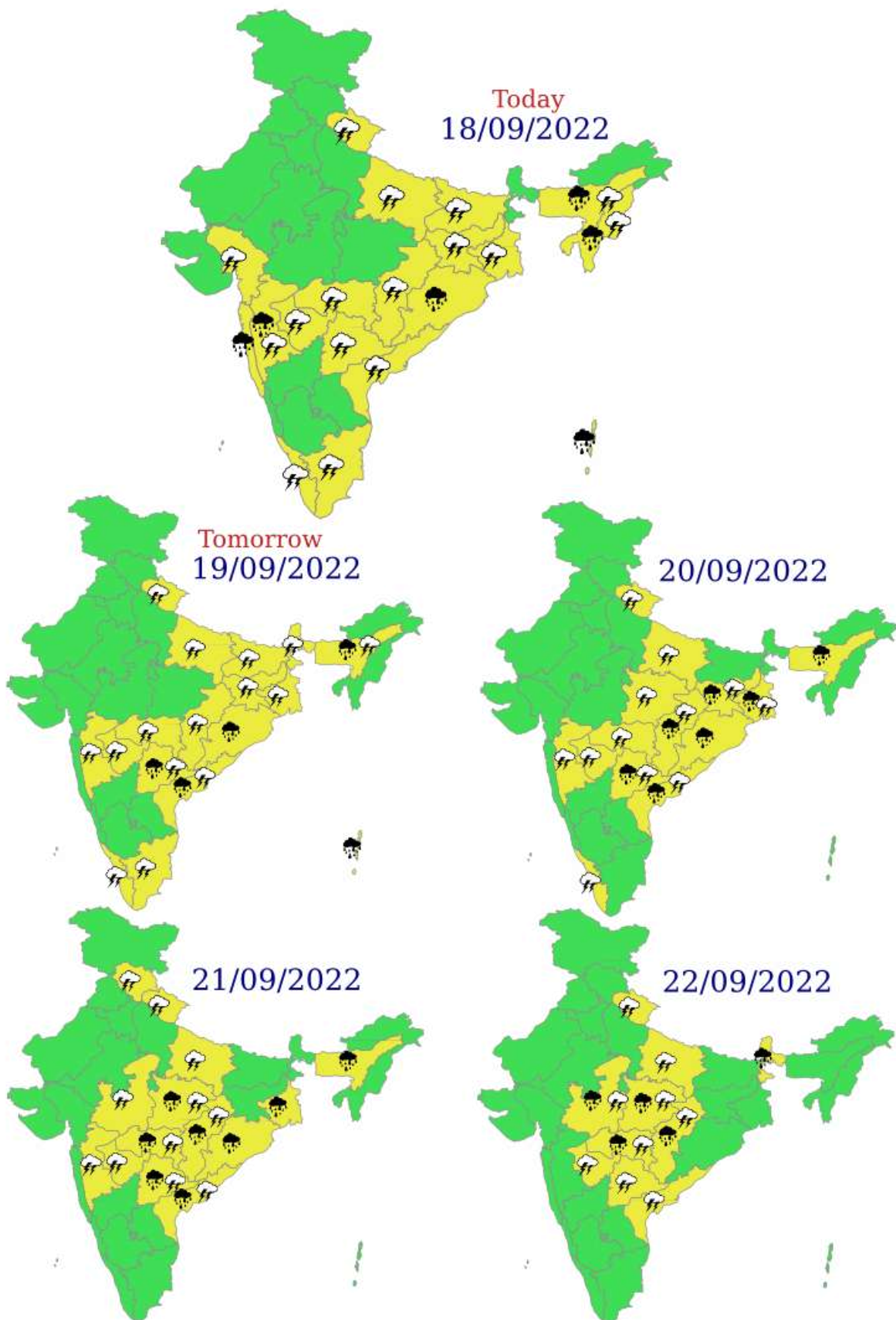
- A cyclonic circulation lies over north & adjoining central Bay of Bengal in lower & middle tropospheric levels. Under its influence, a Low Pressure Area is likely to form over northwest & adjoining westcentral Bay of Bengal off Odisha-West Bengal coasts around 20th September, 2022.
- The Monsoon trough lies near its normal position and its eastern ends likely to shift southwards gradually from tomorrow, the 19<sup>th</sup> September, 2022.
- A cyclonic circulation lies over northeast Uttar Pradesh & neighbourhood in lower tropospheric levels.
- A Western Disturbance seen as a trough in mid-tropospheric westerlies with its axis in middle tropospheric levels runs roughly along Long.74°E to the north of Lat. 30°N.
- **Under their influence:**
  - Fairly Widespread/Widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Odisha during 18<sup>th</sup>-21<sup>st</sup>; Andaman & Nicobar Islands on 18<sup>th</sup> & 19<sup>th</sup>; Jharkhand on 20<sup>th</sup>; Gangetic West Bengal on 20<sup>th</sup> & 21<sup>st</sup>; Sub-Himalayan West Bengal & Sikkim on 22<sup>nd</sup>; Chhattisgarh during 20<sup>th</sup>-22<sup>nd</sup>; Vidarbha and East Madhya Pradesh on 21<sup>st</sup> & 22<sup>nd</sup>; West Madhya Pradesh on 22<sup>nd</sup> and over ghat areas of Madhya Maharashtra and north Konkan on 18<sup>th</sup> September, 2022. **Isolated very heavy rainfall also likely over Odisha during 19<sup>th</sup>-21<sup>st</sup> September, 2022.**
  - Fairly Widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Coastal Andhra Pradesh & Yanam and Telangana during 19<sup>th</sup>-21<sup>st</sup> September, 2022.
  - Scattered light/moderate rainfall with **isolated thunderstorm/lightning** very likely over Uttarakhand and East Uttar Pradesh during next 5 days. **Isolated hailstorm** also likely over Uttarakhand on 18<sup>th</sup> September, 2022.
  - Fairly Widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Assam & Meghalaya during 18<sup>th</sup>-21<sup>st</sup> and over Nagaland, Manipur, Mizoram & Tripura on 18<sup>th</sup> September, 2022.

For more details kindly refer: [https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php)

**Very heavy rainfall** occurred at isolated places over East Uttar Pradesh and Bihar and **heavy rainfall** at isolated places over Uttarakhand, East Madhya Pradesh, Bihar, Odisha, Gujarat Region, ghat areas of Madhya Maharashtra & Konkan.

### Rainfall (in cm):

- ❖ **East Uttar Pradesh:** Deoria (dist Deoria) 15, Nichloul (dist Maharajganj) 13;
- ❖ **Bihar:** P Bausi (dist Banka) 12, Bagha (dist West Champaran) 10, Bikram (dist Patna) 9, Marhuara (dist Saran) 8, Amarpur (dist Banka) 8, Dhengraghat (dist Purnea) 7, Katoria (dist Banka) 7;
- ❖ **Odisha:** Baripada (dist Mayurbhanj) 10;
- ❖ **Uttarakhand:** Pantnagar (dist Udham Singh Nagar) 9;
- ❖ **Konkan & Goa:** Matheran (dist Raigad) 8, Shahapur (dist Thane) 7, Bhiwandi (dist Thane) 7;
- ❖ **East Madhya Pradesh:** Bichhua (dist Chindwara) 8, Katni(mudwara) (dist Katni) 7;
- ❖ **Gujarat Region:** Kaprada (dist Valsad) 7, Madhbun (dist Dadara & Nagar Haveli) 7;
- ❖ **Madhya Maharashtra:** Igatpuri (dist Nashik) 7.



## IMPACT EXPECTED & ACTION SUGGESTED DUE TO-

Isolated **very heavy rainfall** over Odisha during 19<sup>th</sup>-21<sup>st</sup> September, 2022.

### A. Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above 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.

### 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:** 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.
- 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)



 **Thunderstorm with Lightning**

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