



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

**Press Release**  
**Date: 19<sup>th</sup> August, 2022**  
**Time of Issue: 1300 hrs IST**

**Subject: i) Yesterday's Low Pressure Area concentrated into a Depression over Northwest and adjoining Northeast Bay of Bengal at 0530 hrs IST of today.**  
**ii) Subdued rainfall over southern parts of Peninsula likely to continue during next 5 days.**

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

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

- Yesterday's Low Pressure Area over Northeast Bay of Bengal lay as a Well Marked Low Pressure Area at 1430 hrs IST of yesterday and concentrated into a Depression over Northwest and adjoining Northeast Bay of Bengal at 0530 hrs IST of today. (**Annexure III**)
- The **Depression** over Northwest & adjoining Northeast Bay of Bengal moved west-northwestwards during past 03 hours with a speed of 20 kmph and lay centered at 0830 hrs IST of today, the 19<sup>th</sup> August 2022 over northwest & adjoining northeast Bay of Bengal near latitude 20.8°N and longitude 89.2°E, about 250 km east-southeast of Balasore (Odisha), 190 km east-southeast of Digha (West Bengal) and 150 km southeast of Sagar Islands (West Bengal). It is very likely to move west-northwestwards and intensify into a **Deep Depression** during next 06 hours. Continuing to move in the same direction, it is likely to cross West Bengal and Odisha coasts between Balasore & Sagar Islands around evening of today the 19<sup>th</sup> August, 2022. After landfall, it would continue to move west-northwestwards across north Odisha, West Bengal and Jharkhand towards north Chhattisgarh and weaken gradually.
- The **Well Marked Low Pressure Area** over southeast Pakistan & neighbourhood with the associated cyclonic circulation extending upto 7.6 km above mean sea level persists over the same region. It is very likely to persist over the same region and weaken gradually during next 24 hours.
- The western end of the **monsoon trough** at mean sea level runs along the foothills of Himalayas and its eastern end is likely to shift south of its normal position from tomorrow.
- **Under the influence of the above systems:**
  - Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Odisha on 19<sup>th</sup>, 20<sup>th</sup> & 23<sup>rd</sup>; West Bengal & Sikkim on 19<sup>th</sup>; Jharkhand and Telangana on 19<sup>th</sup> & 20<sup>th</sup>; Chhattisgarh and East Madhya Pradesh during 19<sup>th</sup>-21<sup>st</sup>; Vidarbha on 20<sup>th</sup> & 21<sup>st</sup>; West Madhya Pradesh and Konkan & Goa during 20<sup>th</sup>-22<sup>nd</sup>; East Rajasthan during 20<sup>th</sup>-23<sup>rd</sup>; West Rajasthan on 22<sup>nd</sup> & 23<sup>rd</sup>; Madhya Maharashtra during 19<sup>th</sup>-22<sup>nd</sup>; Gujarat Region during 21<sup>st</sup>-23<sup>rd</sup> and Saurashtra & Kutch on 23<sup>rd</sup> August, 2022.
  - ✓ **Isolated/Scattered heavy to very heavy rainfall** likely over Odisha, Jharkhand and Vidarbha on 20<sup>th</sup>; East Madhya Pradesh and East Rajasthan, Konkan & Goa and Madhya Maharashtra on 21<sup>st</sup> Gujarat Region on 21<sup>st</sup> & 22<sup>nd</sup> and West Rajasthan on 23<sup>rd</sup> August, 2022.
  - ✓ **Isolated extremely heavy rainfall also likely over north Odisha, southwest Gangetic West Bengal and southeast Jharkhand on 19<sup>th</sup>; north Chhattisgarh & East Madhya Pradesh on 20<sup>th</sup> and over West Madhya Pradesh on 21<sup>st</sup> and East Rajasthan on 22<sup>nd</sup> August, 2022.**
  - Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Himachal Pradesh and Uttarakhand 19<sup>th</sup> & 20<sup>th</sup>. Scattered/Fairly widespread light/moderate rainfall with

isolated **heavy falls** and **thunderstorm/lightning** very likely over north Haryana & Chandigarh; East Uttar Pradesh on 19<sup>th</sup> & 20<sup>th</sup> and West Uttar Pradesh on 20<sup>th</sup> August, 2022.

- Scattered/Fairly widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Assam & Meghalaya on 19<sup>th</sup> & 20<sup>th</sup> and over Nagaland, Manipur, Mizoram & Tripura on 19<sup>th</sup>, 20<sup>th</sup> & 23<sup>rd</sup> August, 2022.

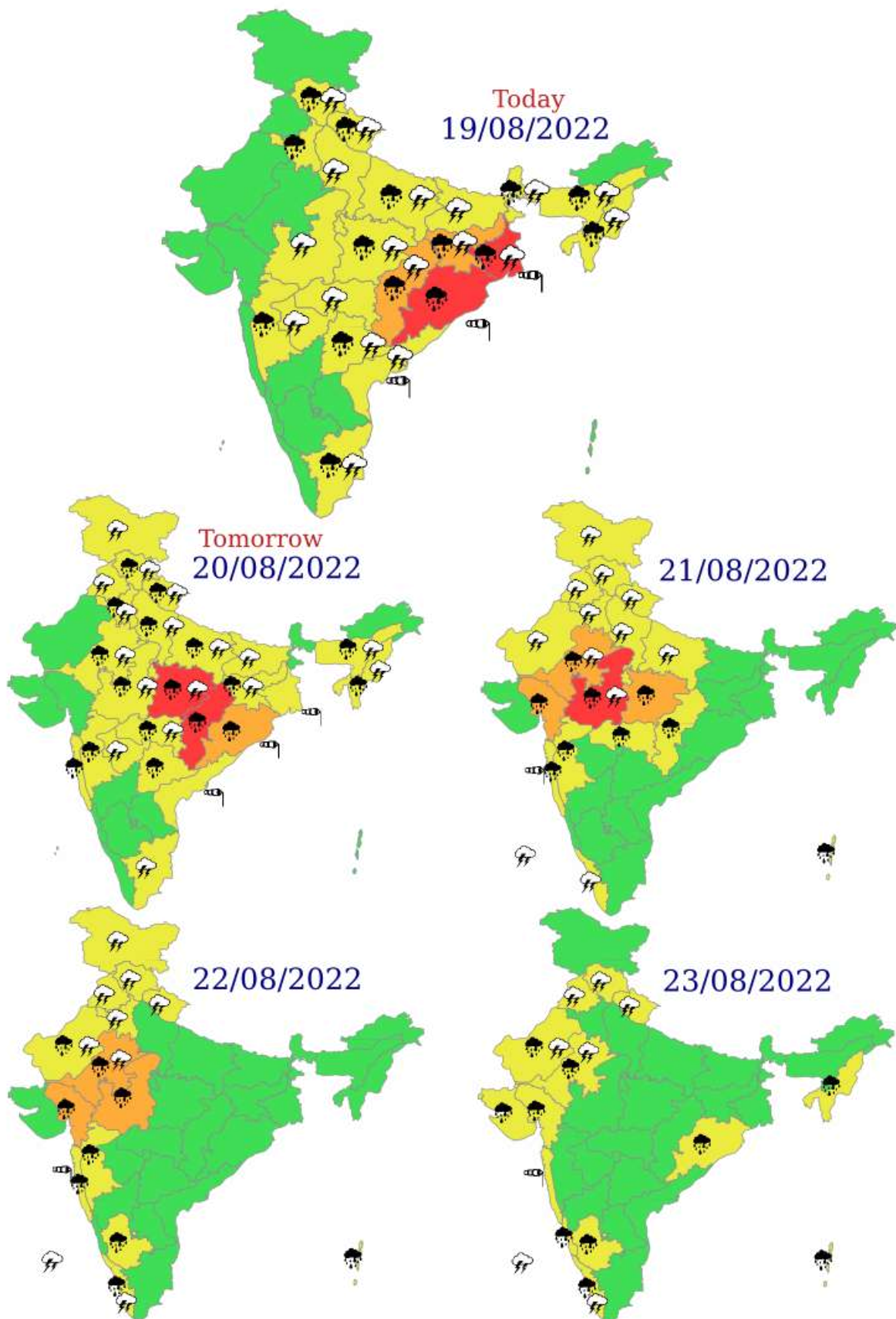
For more details kindly refer: [https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php)

## Annexure I

**Heavy to very heavy rainfall with extremely heavy falls** at isolated places occurred over Himachal Pradesh; **heavy to very heavy rainfall** at isolated places over Odisha and Gangetic West Bengal and **heavy rainfall** at isolated places over Jharkhand, Coastal Andhra Pradesh and Tamil Nadu.

### Rainfall (in cm):

- ❖ **Himachal Pradesh:** Kangra Dist.- Kangra 22, Dharmsala 18, Palampur 9;
- ❖ **Gangetic West Bengal:** Durgapur-17, Panagarh-13, Purulia-8, Simulia-8, Gheropara-7;
- ❖ **Odisha:** Gop (Puri) 12, Paradeep Cwr (Jagatsinghpur) 11, Kantamal (Boudhgarh) 11, Phiringia (Kandhamal) 9, Angul (Angul) 9, Deogarh (Deogarh) 9, Phulbani (Kandhamal) 9, Mohakalapada (Kendrapara) 9, Boudhgarh (Boudhgarh) 8, K Nuagaon (Kandhamal) 8, Batagaon (Sambalpur) 8, Jujumura (Sambalpur) 7, Athmalik (Angul) 7, Tensa (Sundargarh) 7, Kujanga (Jagatsinghpur) 7, Rajnagar (Kendrapara) 7;
- ❖ **Tamil Nadu:** Dindigul (dist. Dindigul) 10, R. S. Mangalam (dist. Ramanathapuram) 10, Kolli Dam (dist. Mayiladuthurai) 7;
- ❖ **Jharkhand:** Dhanbad: Maithon-9 & Panchet-8;
- ❖ **Coastal Andhra Pradesh:** Palakonda (dist Srikakulam) 8.



## EXPECTED IMPACT & ACTION SUGGESTED DUE TO-

**i) Isolated very heavy rainfall** over Chhattisgarh on 19<sup>th</sup>; Odisha on 20<sup>th</sup>; East Madhya Pradesh and East Rajasthan on 21<sup>st</sup>; Gujarat Region on 21<sup>st</sup> & 22<sup>nd</sup> and West Madhya Pradesh on 22<sup>nd</sup> August, 2022.

**ii) Isolated extremely heavy rainfall** over north Odisha, southwest Gangetic West Bengal and southeast Jharkhand on 19<sup>th</sup>; Chhattisgarh and East Madhya Pradesh on 20<sup>th</sup>; West Madhya Pradesh on 21<sup>st</sup> and East Rajasthan on 22<sup>nd</sup> August, 2022.

### A. Impact Expected

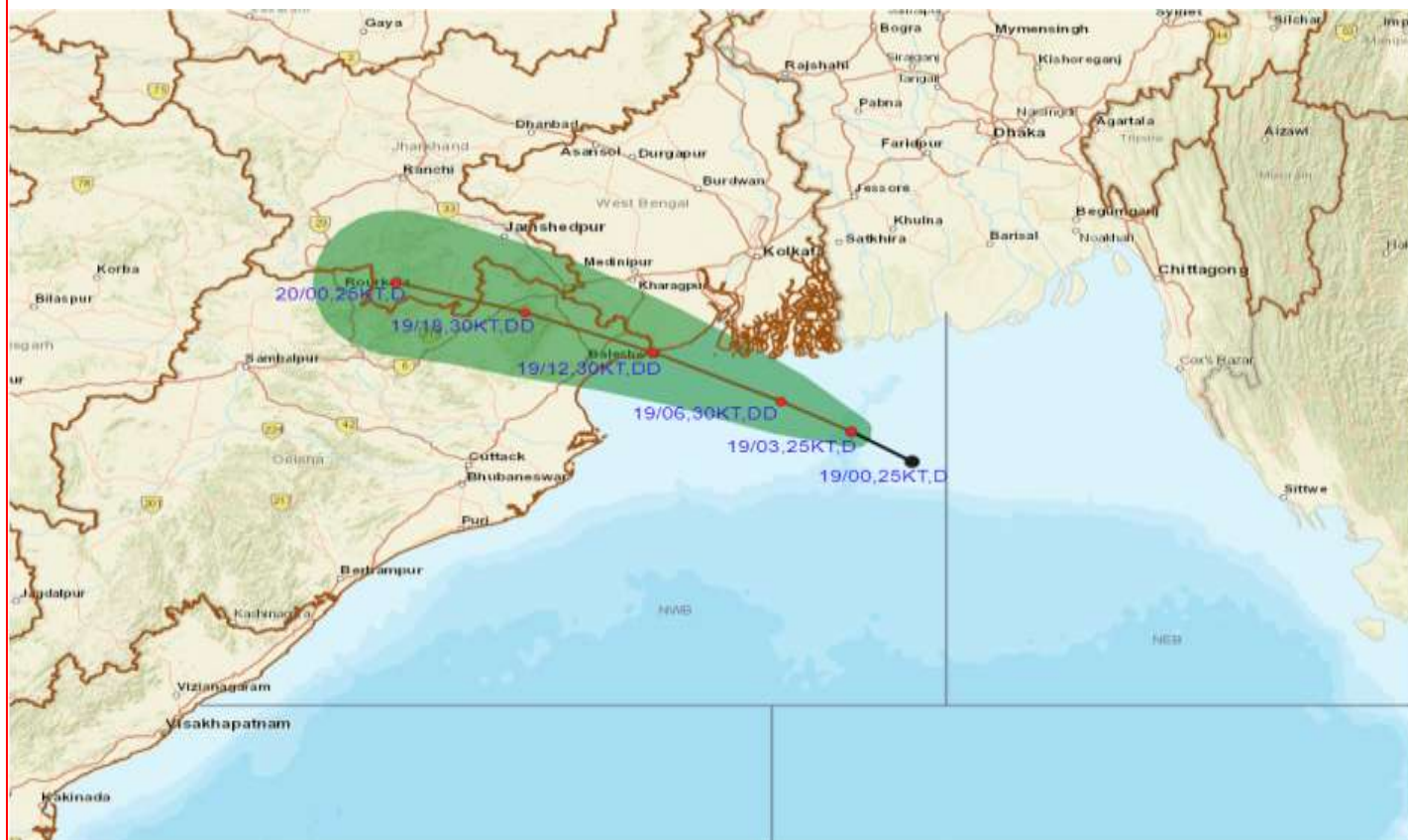
- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor 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.



**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER NORTHWEST AND ADJOINING NORTHEAST BAY OF BENGAL BASED ON 0300 UTC OF 19<sup>th</sup> AUGUST, 2022**



DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)  
 SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

## 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)



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



Heat Wave