



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

**Press Release
Date: 20th August, 2022
Time of Issue: 1350 hrs IST**

Subject: i) Deep Depression over south Jharkhand and adjoining North Odisha continue to move west-northwestwards across Jharkhand and North Chhattisgarh towards north Madhya Pradesh during next 24 hours and weaken gradually.

ii) Subdued rainfall over southern parts of Peninsula likely to continue during next 3 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 Depression over Northwest and adjoining Northeast Bay of Bengal intensified into a **Deep Depression** same area at 1130 hours IST of 19 Aug, it moved west-northwest wards and crossed West Bengal & adjoining north Odisha coast close to Digha during 1900-2000 IST of 19 Aug. It continued to move west-northwest wards and lay centered at 0830 hrs IST of today, the 20th August, 2022 over south Jharkhand and adjoining North Odisha near latitude 22.7°N and longitude 85.6°E, about 60 km west-southwest of Jamshedpur (Jharkhand), about 70 km south-southeast of Ranchi (Jharkhand), and 170 km east-northeast of Jharsuguda (Odisha). It would continue to move west-northwestwards across Jharkhand and North Chhattisgarh towards north Madhya Pradesh during next 24 hours and weaken gradually. (**Annexure III**).
- The western end of the monsoon trough at mean sea level continues to run along the foothills of Himalayas and its eastern end runs south of the normal position.
- **Under the influence of the above systems:**
 - Fairly widespread/widespread light/moderate rainfall with isolated/scattered **heavy to very heavy rainfall with extremely heavy falls at isolated** also likely over East Madhya Pradesh and Chhattisgarh on 20th. West Madhya Pradesh on 21st and East Rajasthan on 22nd, August, 2022.
 - Fairly widespread/widespread light/moderate rainfall with isolated **heavy to very heavy falls and thunderstorm/lightning** very likely over Jharkhand, Odisha & Vidarbha on 20th, East Rajasthan on 20th & 21th, East Madhya Pradesh on 21st, ghat areas of Madhya Maharashtra on 21st & 22nd, West Madhya Pradesh on 22nd and West Rajasthan & northern parts of Gujarat Region on 23rd August, 2022.
 - Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over Gangetic West Bengal on 20th, West Madhya Pradesh & ghat areas of Madhya Maharashtra on 20th & 23rd, Vidarbha & Chhattisgarh on 21th, Konkan & Goa during 21st -23rd, East Rajasthan on 23rd and West Rajasthan & northern parts of Gujarat Region on 22nd & 24th August, 2022.

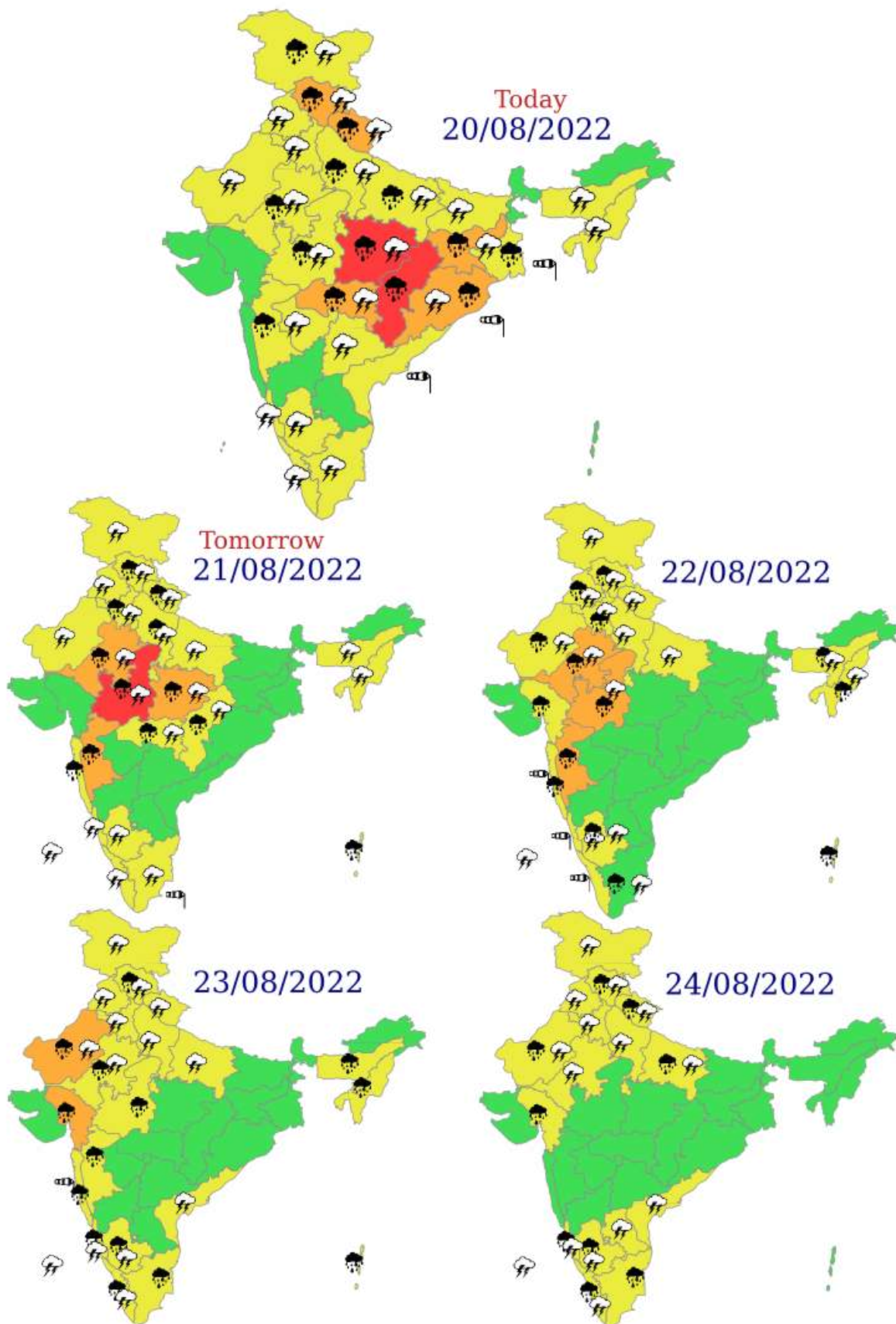
- Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 20th, Himachal Pradesh during 20th-24th, Uttarakhand on 20th, 21st & 24th, West Uttar Pradesh on 20th, 21st and over East Uttar Pradesh on 20th & 24th, Punjab on 22nd and over Haryana on 21st & 22nd August, 2022.
- Isolated **very heavy** rainfall also likely over Himachal Pradesh and Uttarakhand on 20th August, 2022.
- Fairly widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 22nd & 23rd August, 2022.
- Fairly widespread to widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Coastal Karnataka during 22nd-24th, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal on 23rd & 24th and Kerala & Mahe on 22nd & 23rd August, 2022.
- Isolated **very heavy** rainfall also likely over Kerala & Mahe on 24th August, 2022.
- Widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Andaman & Nicobar Islands during 20th-22nd August, 2022.

For more details kindly refer: https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php

Heavy to very heavy rainfall with extremely heavy falls at isolated places occurred over Himachal Pradesh, Uttarakhand and Odisha; **heavy to very heavy rainfall** at isolated places over Jharkhand, Gangetic West Bengal and ghat area of Madhya Maharashtra and **heavy rainfall** at isolated places over Jammu & Kashmir, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Sub-Himalayan West Bengal, Meghalaya, Marathwada and Tamil Nadu.

Rainfall (in cm):

- ❖ **Odisha:** Bhogorai (Balasore) -23, Phiringia (Kandhamal) - 21, Nawana (Mayurbhanj) -20, Tikabali (Kandhamal) -20, Chakapad (Kandhamal) -19, Bahalda (Mayurbhanj) -19, Batagaon (Sambalpur) -18, Kusumi (Mayurbhanj) -18, Phulbani (Kandhamal) -17, Tiring (Mayurbhanj) -16, Udala (Mayurbhanj) -16, Junagarh (Kalahandi) -16, Joshipur (Mayurbhanj) -16, Rajghat (Balasore) -15.
- ❖ **Uttarakhand:** Rishikesh-29; Almora: Someshwar-7; Bageshwar: Loharkhet-7, Sama-9; Chamoli: Gairsain-10; Dehradun: Jollygrant, Mussorie-14; Garhwal Tehri: Narendranagar-18; Nainital-12; Udham Singh Nagar: Khatima-16; Uttarkashi-12.
- ❖ **Himachal Pradesh:** Kangra Airport 34.4, Dharmsala:33.6; Mandi: Jogindarnagar-21; Bilaspur: Naina Davi-18;
- ❖ **Gangetic West Bengal:**Digha-18; Contai-15; Jhargram-11; Sunderban-10; Kalaikunda-9; Kharagpur (AMFU)-8; Haldia-7.
- ❖ **East Madhya Pradesh:** Umari-aws (dist Umari)- 9, Nagode (dist Satna) -8, Teonthar (dist Rewa) -8, Rewa-aws (dist Rewa) -7, Majhgaon (dist Satna) -7, Dindori-aws (dist Dindori) -7.
- ❖ **West Madhya Pradesh:** Bhind-aws (dist Bhind) 10, Alipur(jaura) (dist Morena) 9, Ambah (dist Morena) 7.
- ❖ **Sub-Himalayan West Bengal:** Diana-7.
- ❖ **Tamil Nadu:** Sirugamani KVK (dist Thiruchirappalli) - 8.
- ❖ **Chhattisgarh:** Kusmi (dist Balrampur) 9, Odagi (dist Surajpur) 8.
- ❖ **Jharkhand:** Ramgarh: Ramgarh-14; Mandu-8; East Singhbhum: Jamshedpur Aero-14; West Singhbhum: Jaganathpur Bau Kvk Aws -13, Chakradharpur-11; Ranchi: Mandar-12, Icar Namkum -9; Seraikela-Kharsawan: Nimdih -11; Bokaro: Gomia-9;
- ❖ **East Rajasthan:** Rajakhera (Dholpur) -8, Bari (Dholpur) -7.



EXPECTED IMPACT & ACTION SUGGESTED DUE TO-

i) Isolated extremely heavy rainfall over East Rajasthan on 22th; over West Madhya Pradesh on 21st; East Madhya Pradesh and Chhattisgarh on 20th August, 2022.

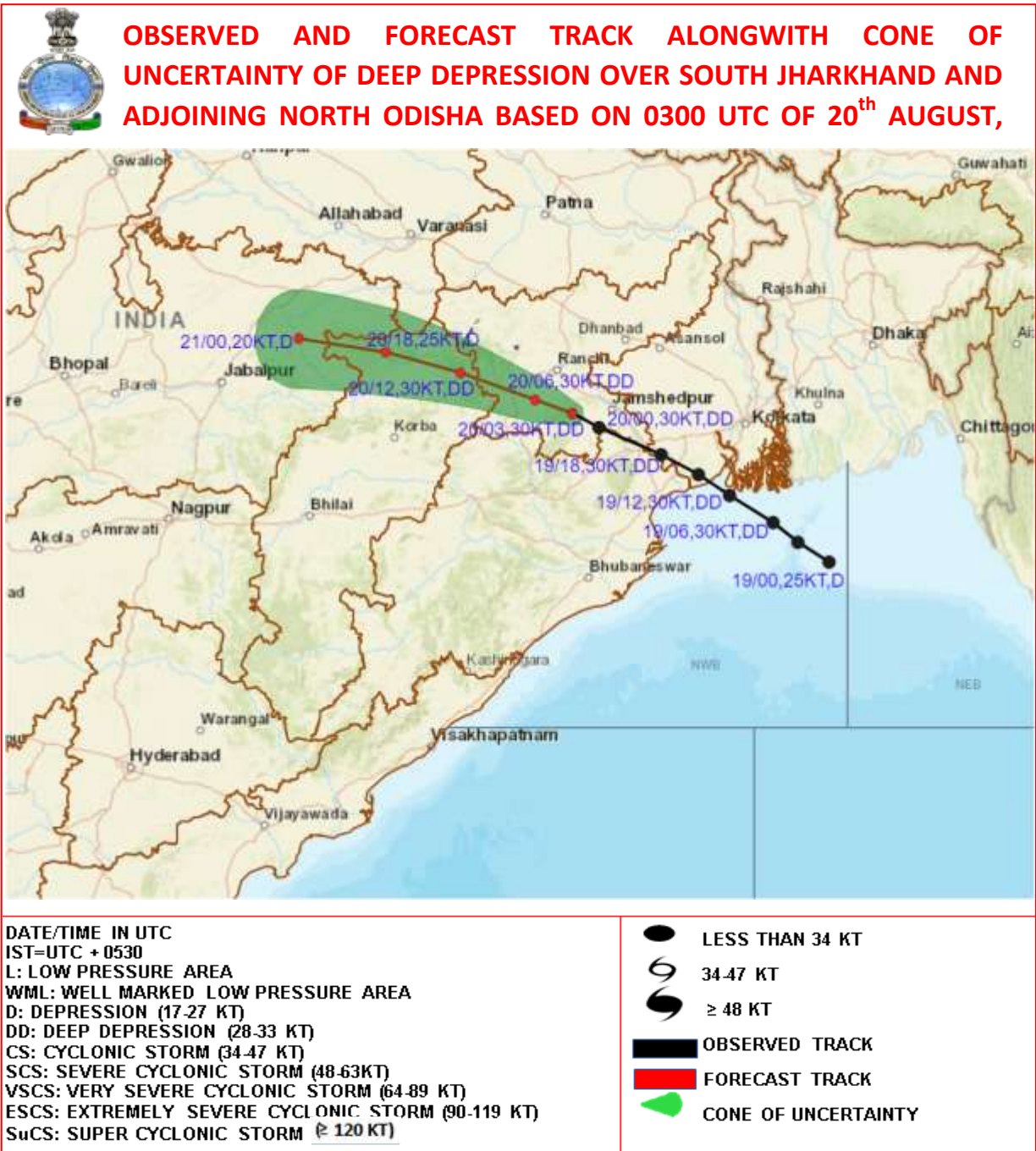
ii) Isolated very heavy rainfall over Himachal Pradesh and Uttarakhand on 20th; West Rajasthan on 23rd; East Rajasthan on 20th & 21st; West Madhya Pradesh on 22nd; East Madhya Pradesh on 21st; Vidarbha, Jharkhand and Odisha on 20th August, 2022.

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.



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)



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

