



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

**Press Release**  
**Date: 22<sup>nd</sup> August, 2022**  
**Time of Issue: 1230 hrs IST**

**Subject: i) Depression over Northwest Madhya Pradesh & adjoining southwest Uttar Pradesh.  
ii) Subdued rainfall activity over northwest India during next 5 days and over central India from 24<sup>th</sup> August, 2022.**

**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 Chhattisgarh & adjoining northeast Madhya Pradesh moved nearly west-northwestwards during past 24 hours and lay centered at 0830 hrs IST of today, the 22<sup>nd</sup> August, over Northwest Madhya Pradesh & adjoining southwest Uttar Pradesh near latitude 24.3°N and longitude 78.4°E, about 60 km north-northwest of Sagar (Madhya Pradesh), 110 km east-southeast of Guna (Madhya Pradesh) and 120 km south of Jhansi (Uttar Pradesh). It would continue to move nearly west-northwestwards towards East Rajasthan and weaken into a Well Marked Low Pressure Area by tomorrow morning, the 23<sup>rd</sup> August, 2022. (**Annexure III**).
- The western end of the monsoon trough at mean sea level is north of its normal position and eastern end is south of its normal position.
- **Under the influence of the above systems:**
  - **Widespread light/moderate rainfall with isolated heavy to very heavy rainfall with extremely heavy falls very likely over West Madhya Pradesh and East Rajasthan on 22<sup>nd</sup> August, 2022.**
  - Fairly widespread/widespread light/moderate rainfall with **isolated heavy to very heavy falls** and thunderstorm/lightning very likely over northern parts of Gujarat Region on 22<sup>nd</sup> & 23<sup>rd</sup>; Rajasthan on 23<sup>rd</sup> August, 2022.
  - Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls** and thunderstorm/lightning very likely over West Rajasthan on 22<sup>nd</sup> & 24<sup>th</sup>; East Madhya Pradesh 22<sup>nd</sup> & 26<sup>th</sup>; West Madhya Pradesh, Gangetic West Bengal, Madhya Maharashtra and Konkan & Goa on 23<sup>rd</sup>; Odisha on 23<sup>rd</sup> & 24<sup>th</sup>; Gujarat Region on 24<sup>th</sup>; Saurashtra & Kutch on 23<sup>rd</sup>; Chhattisgarh on 25<sup>th</sup> & 26<sup>th</sup> August, 2022.
  - Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Uttarakhand on 24<sup>th</sup> 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 22<sup>nd</sup>, 23<sup>rd</sup> & 25<sup>th</sup>; Arunachal Pradesh on 26<sup>th</sup> August, 2022.
  - Fairly widespread to widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Coastal Karnataka on 22<sup>nd</sup> & 23<sup>rd</sup>; South Interior Karnataka on 23<sup>rd</sup> & 24<sup>th</sup>; Kerala & Mahe and Tamilnadu, Puducherry & Karaikal during 22<sup>th</sup> -26<sup>th</sup> August, 2022.
  - **Scattered light/moderate rainfall** with isolated **thunderstorm/lightning** very likely over south Haryana, Delhi and southwest Uttar Pradesh.

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)

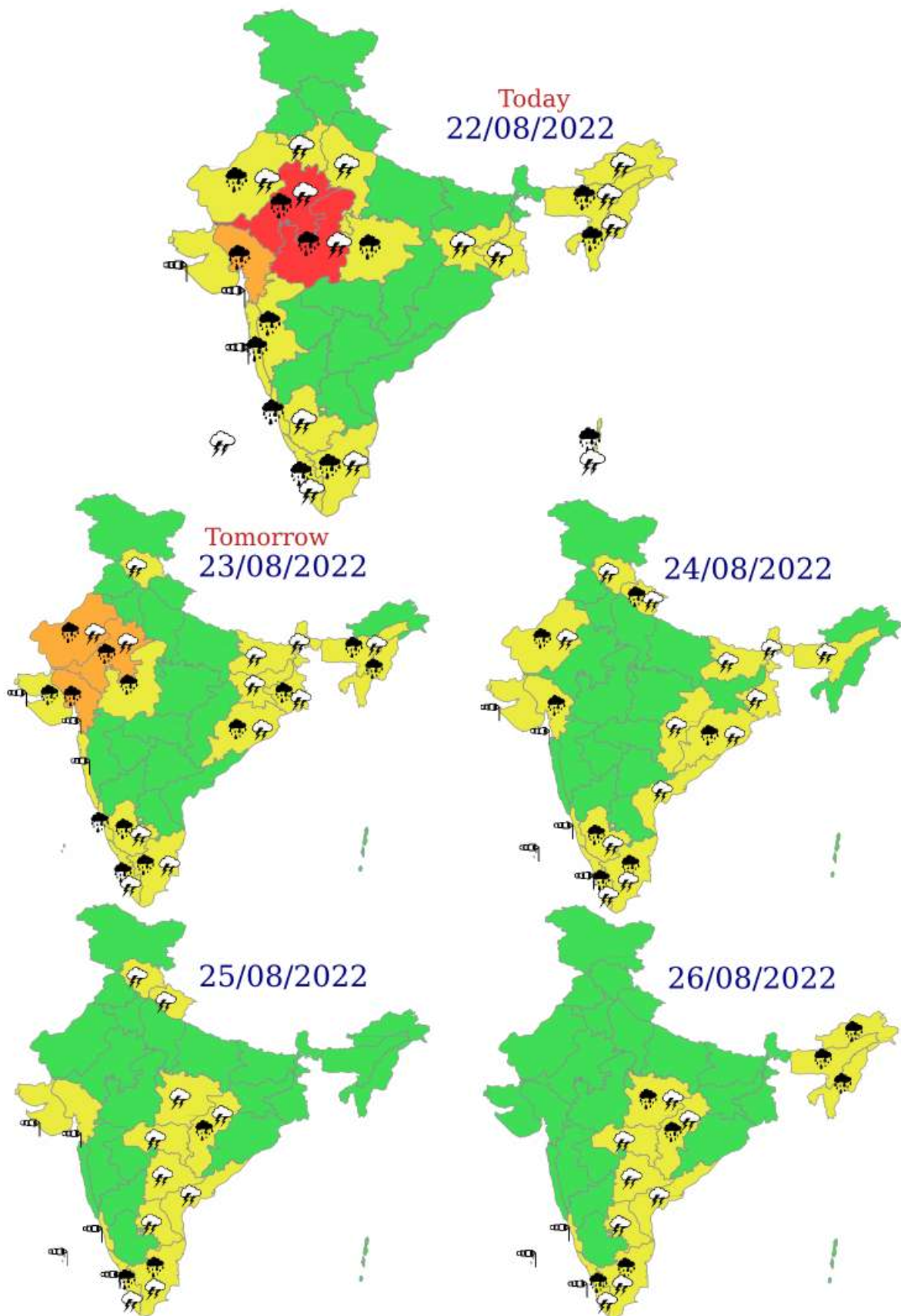
## Annexure I

**Heavy to very heavy rainfall with extremely heavy falls** at isolated places occurred over East Rajasthan and West Madhya Pradesh and **heavy to very heavy rainfall** at isolated places over East Madhya Pradesh; **heavy rainfall** at isolated places over Odisha, Coastal Karnataka and Tamilnadu.

### Rainfall (in cm):

- ❖ **East Rajasthan:** Dug (dist Jhalawar) 23, Kota-aero (dist Kota) 22, Degod Sr (dist Kota) 22, Nainwa (dist Bundi) 22, Ladpura Sr (dist Kota) 19, Tonk Tehsil Sr (dist Tonk) 18, Pipalda Sr (dist Kota) 17, Anta Sr (dist Baran) 17, Patan (dist Bundi) 16, Nagrarfort Sr (dist Tonk) 16, Ramganjmandi Sr (dist Kota) 14, Bhainsroadgarh Sr (dist Chittorgarh) 13, Mangrol (dist Baran) 13, Mandana Sr (dist Kota) 13, Pachpahar Sr (dist Jhalawar) 13, Manohar Thana (dist Jhalawar) 13, Uniara / Aligarh (dist Tonk) 12, Chothkabarwara Sr (dist Sawai Madhopur) 12, Aklera (dist Jhalawar) 12, Sangod (dist Kota) 11.
- ❖ **East Madhya Pradesh:** Jaisinagar (dist Sagar) 19, Kesli (dist Sagar) 18, Simariya (dist Panna) 18, Rehli (dist Sagar) 18, Sagar-aws (dist Sagar) 17, Jabalpur-aws (dist Jabalpur) 16, Rahatgarh (dist Sagar) 16, Banda (dist Sagar) 15, Patharia (dist Damoh) 15, Hatta (dist Damoh) 15, Garhakota (dist Sagar) 14, Tendukheda (dist Damoh) 14, Tendukheda (dist Narsinghpur) 14, Deori (dist Sagar) 14, Bina (dist Sagar) 13, Badagaon Dhasan (dist Tikamgarh) 12, Narsinghpur-aws (dist Narsinghpur) 12, Bargi (dist Jabalpur) 12, Gotegaon (dist Narsinghpur) 11, Shahgarh (dist Sagar) 11, Buxwaha (dist Chhatarpur) 11, Batiyagarh (dist Damoh) 11, Patan (dist Jabalpur) 11, Niwas (dist Mandla) 11, Jabera (dist Damoh) 11, Damoh-aws (dist Damoh) 10, Patera (dist Damoh) 10, Malthone (dist Sagar) 10, Lakhnadon (dist Seoni) 10, Kareli (dist Narsinghpur) 10, Khurai (dist Sagar) 10.
- ❖ **West Madhya Pradesh:** Biaora (dist Rajgarh) 35, Raghogarh (dist Guna) 29, Chachoda (dist Guna) 29, Lateri (dist Vidisha) 21, Zirapur (dist Rajgarh) 20, Begumganj (dist Raisen) 20, Bairagarh Airport (dist Bhopal) 19, Aron (dist Guna) 19, Bhanpura (dist Mandsaur) 19, Guna-aws (dist Guna) 17, Kumbhraj (dist Guna) 17, Gairatgang (dist Raisen) 17, Shamshabad (dist Vidisha) 17, Udaipura (dist Raisen) 16, Raisen-aws (dist Raisen) 16, Rajgarh (dist Rajgarh) 16, Bamori (dist Guna) 15, Vidisha (dist Vidisha) 15, Pathari (dist Vidisha) 15, Kalapipal (dist Shajapur) 15, Pachmarhi (dist Narmadapuram) 15, Narsingarh (dist Rajgarh) 15, Ganjbasoda (dist Vidisha) 15, Ashoknagar-aws (dist Ashoknagar) 15, Bhopal Arera Hills (dist Bhopal) 14, Shujalpur (dist Shajapur) 14, Navibagh Aet (dist Bhopal) 14, Sironj (dist Vidisha) 14, Pachore (dist Rajgarh) 14, Deori (dist Raisen) 13, Shyampur (dist Sehore) 13, Kolar (dist Bhopal) 13, Berasia (dist Bhopal) 13, Barod (dist Agar-malwa) 13, Kurwai (dist Vidisha) 13, Sheopur-aws (dist Sheopur) 13, Sarangpur (dist Rajgarh) 13, Gulabganj (dist Vidisha) 13, Isagarh (dist Ashoknagar) 13, Khilchipur (dist Rajgarh) 13, Nateran (dist Vidisha) 12, Suvasara (dist Mandsaur) 12, Moman Badodiya (dist Shajapur) 12, Salwani (dist Raisen) 12, Badoda (dist Sheopur) 11, Sehore-aws (dist Sehore) 11, Gulana (dist Shajapur) 11, Agar (dist Agar-malwa) 11, Garoth (dist Mandsaur) 11, Sohagpur (dist Narmadapuram) 11, Pipariya (dist Narmadapuram) 11, Nalkheda (dist Agar-malwa) 11.
- ❖ **Tamilnadu:** Kancheepuram: Acs Medical College Arg-8; Cuddalore: Panruti-7; Madurai: Andipatti-6.
- ❖ **Odisha:** Cuttack: Banki-10, Athgarh-7.
- ❖ **Coastal Karnataka:** Udupi:Siddapura-7; Uttarakannada: Gersoppa-7.





## EXPECTED IMPACT & ACTION SUGGESTED DUE TO-

**i) Isolated extremely heavy rainfall** over West Madhya Pradesh and East Rajasthan on 22nd August, 2022.

**ii) Isolated very heavy rainfall** over northern parts of Gujarat Region on 22nd & 23<sup>rd</sup>; Rajasthan on 23rd 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)

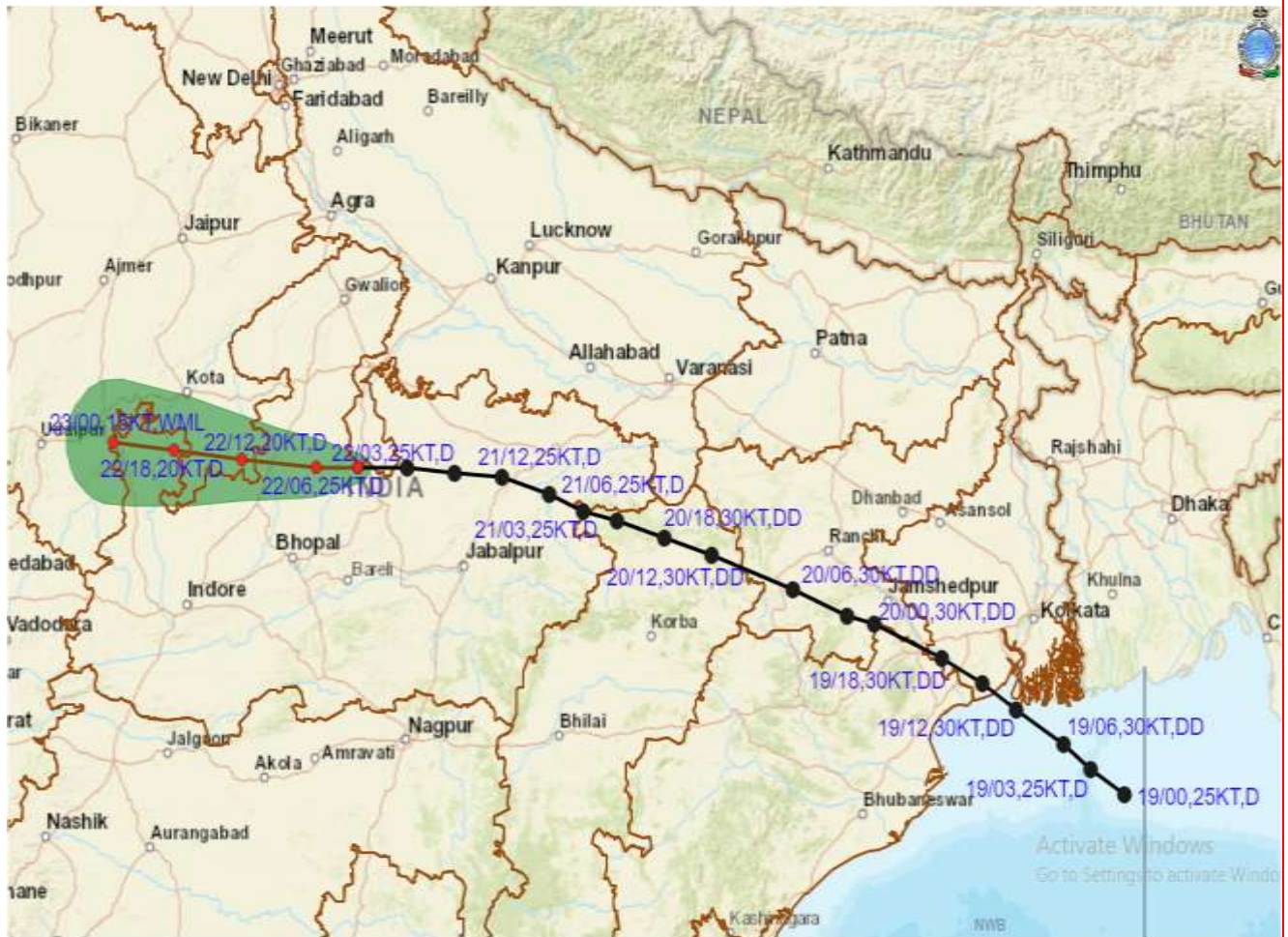
### B. Action Suggested

- 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 MADHYA PRADESH AND ADJOINING SOUTHWEST UTTAR PRADESH BASED ON 0300 UTC OF 22<sup>nd</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 ( $\geq$  120 KT)

- LESS THAN 34 KT
- 34-47 KT
- $\geq$  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)



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

