



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

**Press Release**  
**Date: 27<sup>th</sup> July, 2022**  
**Time of Issue: 1245 hrs IST**

**Subject: Increase in rainfall activity over North India due to northward shift of monsoon trough**

**Weather observed during past 24 hours ending at 0830 hrs IST of today:**

- **Heavy to very heavy rainfall** occurred at isolated places over East Uttar Pradesh, Uttarakhand, West Rajasthan, Chhattisgarh, Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Punjab, East Rajasthan, East Madhya Pradesh, Gujarat Region, Coastal Andhra Pradesh, Marathwada, Telangana, Assam & Meghalaya and Nagaland & Tripura. (**Annexure I**).

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

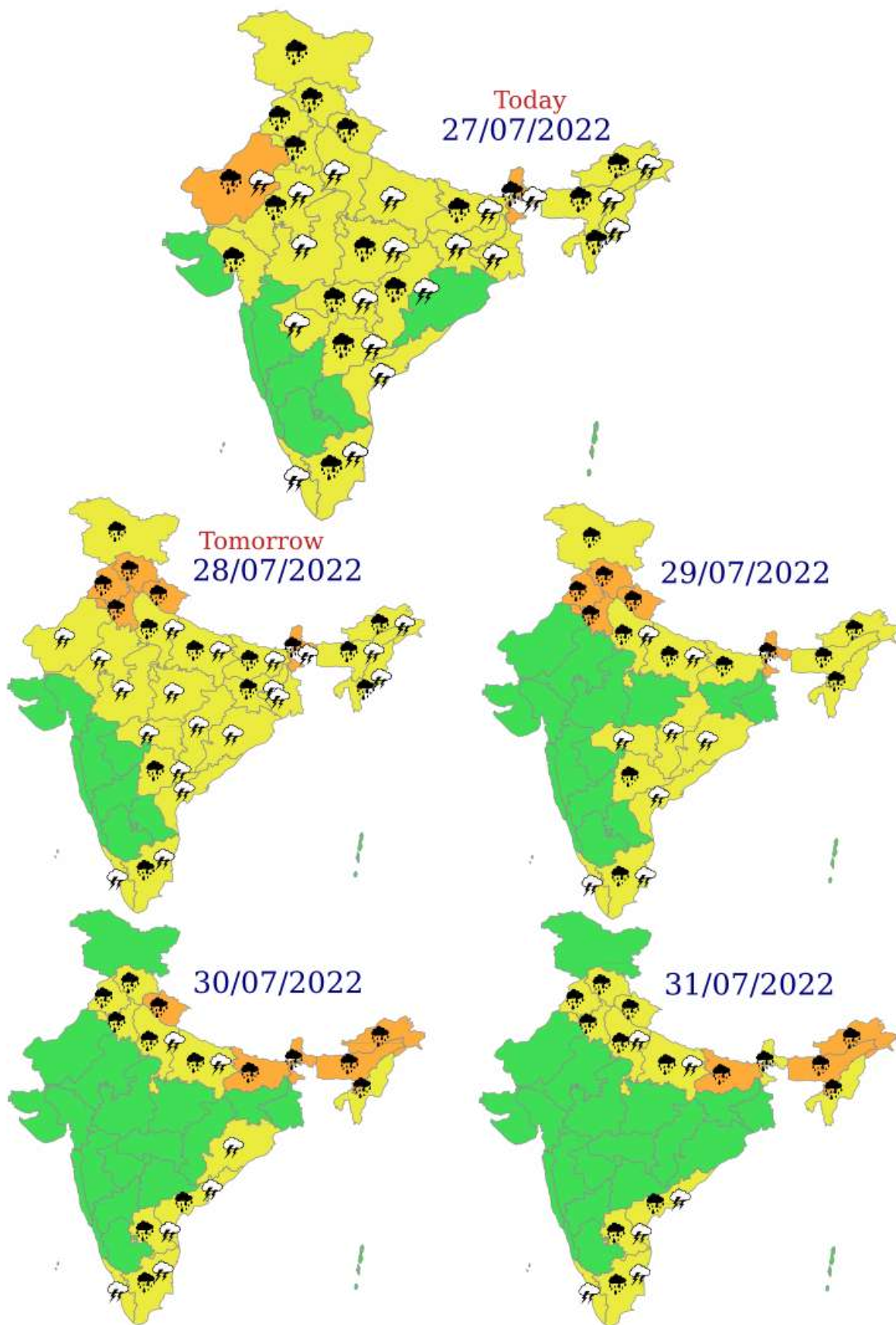
- The **monsoon trough** at mean sea level runs near its normal position. It is very likely to continue to shift northwards during next 2-3 days.
- A cyclonic circulation lies over central parts of Rajasthan and another over Westcentral Bay of Bengal off Andhra Pradesh coast in lower tropospheric levels.
- A **fresh Western Disturbance** is likely to affect Western Himalayan Region from 28th July, 2022.
- **Under the influence of above systems;**
  - Fairly widespread/widespread rainfall with **isolated heavy falls** and **thunderstorm/lightning** very likely over Jammu & Kashmir during 27<sup>th</sup>-29<sup>th</sup>; Himachal Pradesh, Uttarakhand, north Punjab, north Haryana-Chandigarh during 27<sup>th</sup>-31<sup>st</sup> July; West Uttar Pradesh during 28<sup>th</sup>-31<sup>st</sup> July; over East Uttar Pradesh during 28<sup>th</sup>-30<sup>th</sup> July and over Rajasthan on 27<sup>th</sup> July, 2022.
    - ✓ **Isolated very heavy rainfall also very likely over West Rajasthan on 27<sup>th</sup>; north Punjab, north Haryana-Chandigarh & Himachal Pradesh on 28<sup>th</sup> & 29<sup>th</sup>; Uttarakhand during 28<sup>th</sup>-30<sup>th</sup> and over East Uttar Pradesh on 30<sup>th</sup> July, 2022.**
  - Fairly widespread/widespread light/moderate rainfall with **thunderstorm & lightning** very likely to continue over Central, West, East and South India during next 3-4 days.
    - ✓ **Isolated heavy falls** very likely over Gujarat Region, Chhattisgarh, Vidarbha & East Madhya Pradesh on 27<sup>th</sup>; Jharkhand on 28<sup>th</sup>; Bihar & Telangana during 27<sup>th</sup>-29<sup>th</sup>; Rayalaseema & Coastal Andhra Pradesh on 30<sup>th</sup> & 31<sup>st</sup> and over Tamil Nadu, Puducherry & Karaikal 27<sup>th</sup>-31<sup>st</sup> July, 2022.
    - ✓ **Isolated very heavy rainfall also likely over Bihar on 30<sup>th</sup> & 31<sup>st</sup> July, 2022.**
  - Widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 27<sup>th</sup>-31<sup>st</sup> July, 2022.
    - ✓ **Isolated very heavy rainfall** also very likely over Sub-Himalayan West Bengal & Sikkim during 27<sup>th</sup>-30<sup>th</sup>; Assam & Meghalaya and Arunachal Pradesh on 30<sup>th</sup> & 31<sup>st</sup> July, 2022.

For more details kindly refer:

[https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forcast\\_bulletin.php](https://mausam.imd.gov.in/imd_latest/contents/all_india_forcast_bulletin.php)

**Rainfall (in cm):**

- ❖ **West Rajasthan:** Nagaur: Merta City-19, Jalore: Bhinmal-12, Raniwada-9, Jodhpur: Osian-10, Jodhpur Tehsil-8, Jaisalmer: Ramgarh-8;
- ❖ **East Uttar Pradesh:** Kheri: DHAURAHARA-17, Ballia-Ballia-10, Mirzapur: Lalganj-8;
- ❖ **Bihar:** Madhubani: JHANJHARPUR-16, West Champaran: Tribeni-14, Purnea: Dhengraghat-11, Samastipur-10, Nalanda: Rajgir-9, Nawada-9;
- ❖ **Jharkhand:** Garwah: Nagar Untari-13, Koderma: Satgaon-8;
- ❖ **Tamil Nadu:** Moongilthuraipattu (dist Kallakurichi) 13, Ulundurpet (dist Kallakurichi), Valangaiman (dist Tiruvarur) 12 each, Vepur (dist Cuddalore) 11, Srimushnam (dist Cuddalore), Needamangalam (dist Tiruvarur) 10 each, Agaram Seegoor (dist Perambalur), Kilacheruvai (dist Cuddalore), Me.Mathur (dist Cuddalore), Kalayanallur (dist Kallakurichi), Sulankurichi (dist Kallakurichi), Virudachalam KVK (dist Cuddalore) 9 each, Sankarapuram (dist Kallakurichi), Kuppanatham (dist Cuddalore), Sethiathope (dist Cuddalore), Harur (dist Dharmapuri), Virudachalam (dist Cuddalore), Thiyagadurgam (dist Kallakurichi) 8 each, Kattumalaiyur (dist Cuddalore), Padalur (dist Perambalur), Andipatti (dist Madurai), Kodanad (dist Nilgiris), Thandarampettai (dist Tiruvannamalai), Kallakurichi (dist Kallakurichi), Kumbakonam (dist Thanjavur), Moorarpalayam (dist Kallakurichi), Virugavoor (dist Kallakurichi) 7 each;
- ❖ **Sub-Himalayan West Bengal & Sikkim:** Jalpaiguri: Neora-13, Gajoldoba & Nagarkata-12 each, Alipuduar-7, Darjeeling-8, Kalimpong-7, Gyalsing-7;
- ❖ **Chhattisgarh:** Bijapur (dist Bijapur) 12, Patharia (dist Mungeli) 7, Baloda Bazar (dist Baloda Bazar) 7, Mainpur (dist Gariaband) 7, Bhairamgarh (dist Bijapur) 6;
- ❖ **Arunachal Pradesh:** West Kameng-12, Tawang-8;
- ❖ **Uttarakhand:** Champawat: Banbasa-12, Gharwal Pauri-7;
- ❖ **Telangana:** Chevella (dist Rangareddy) 11, Chinthakam (dist Khammam) 11, Gundala (dist B. Kothagudem) 8, Ibrahimpatnam (dist Rangareddy) 7, Zaffergadh (dist Jangaon) 7, Tekulapalle (dist B. Kothagudem) 6, Pinapaka (dist B. Kothagudem) 6, Kondurg (dist Rangareddy) 5;
- ❖ **Nagaland & Tripura:** Khowai-11, Paren-7;
- ❖ **Assam & Meghalaya:** Karimganj-11, East Khasi Hills-11, Tinsukia-7, Dibrugarh-7;
- ❖ **Gujarat Region:** Idar (dist Sabarkantha) 10, Saraswati (dist Patan) 8, Bhiloda (dist Aravalli) 8, Ukai (dist Surat) 7, Umerpada (dist Surat) 7;
- ❖ **East Rajasthan:** Pratapgarh: Pratapgarh-9, Sirohi: Mont Abu-8, Bhilwara: Mandal-7;
- ❖ **East Madhya Pradesh:** Ghansore (dist Seoni) 9, Ramnagar (dist Satna) 7, Bijadandi (dist Mandla) 6, Satna (raghuraj Nagar) (dist Satna) 6;
- ❖ **Coastal Andhra Pradesh:** Kukunoor (dist West Godavari) 8, Bheemavaram (dist West Godavari) 5;
- ❖ **Marathwada:** Himayatnagar (dist Nanded) 8, Kinwat (dist Nanded) 7, Mudkhed (dist Nanded) 5
- ❖ **Punjab:** Gurdaspur (dist Gurdaspur) 7, Gurdaspur Amfu (dist Gurdaspur) 7, Gurdaspur Aws (dist Gurdaspur) 5;



## EXPECTED IMPACT & ACTION SUGGESTED DUE TO-

**Isolated very heavy rainfall** over West Rajasthan on 27<sup>th</sup>; north Punjab, north Haryana-Chandigarh & Himachal Pradesh on 28<sup>th</sup> & 29<sup>th</sup>; Uttarakhand during 28<sup>th</sup>-30<sup>th</sup>; East Uttar Pradesh on 30<sup>th</sup> July Sub-Himalayan West Bengal & Sikkim during 27<sup>th</sup>-30<sup>th</sup> and over Bihar, Arunachal Pradesh and Assam & Meghalaya on 30<sup>th</sup> & 31<sup>st</sup> July, 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 kutchha 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)



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