



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

**Press Release
Date: 24th September, 2022
Time of Issue: 1300 hrs IST**

Subject: Intense spell of rainfall likely to continue over parts of plains of northwest India on 24th; over Himachal Pradesh & Uttarakhand on 24th & 25th September and significant reduction over the entire region thereafter.

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

Withdrawal of Southwest Monsoon

- The line of withdrawal of Southwest Monsoon passes through Khajuwala, Bikaner, Jodhpur and Naliya.

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

- A cyclonic circulation lies over northeast Rajasthan & neighbourhood in lower to mid-tropospheric levels. It is likely to persist till tomorrow.
- A trough runs from cyclonic circulation over northeast Rajasthan to north Chhattisgarh across south Uttar Pradesh in lower tropospheric levels.
- A north-south trough runs along Long. 87°E to the north of Lat. 20°N in lower tropospheric level
- A Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 70°E to the north of Lat. 30°N.
- **Under the influence of above systems:**
 - Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Punjab, Haryana, West & northeast Uttar Pradesh and north Rajasthan on 24th and over Himachal Pradesh and Uttarakhand on 24th & 25th September, 2022. Moderate rainfall likely over Delhi on 24th September, 2022. **Isolated very heavy rainfall also likely over Himachal Pradesh and Haryana on 24th and over Uttarakhand on 24th & 25th September, 2022.**
 - Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Bihar and Sub-Himalayan West Bengal & Sikkim on 24th & 25th and Odisha on 27th September, 2022. **Isolated very heavy rainfall also likely over Sub-Himalayan West Bengal & Sikkim on 25th September, 2022.**
 - Fairly widespread/Widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Arunachal Pradesh on 24th & 25th and Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 24th-27th September, 2022.

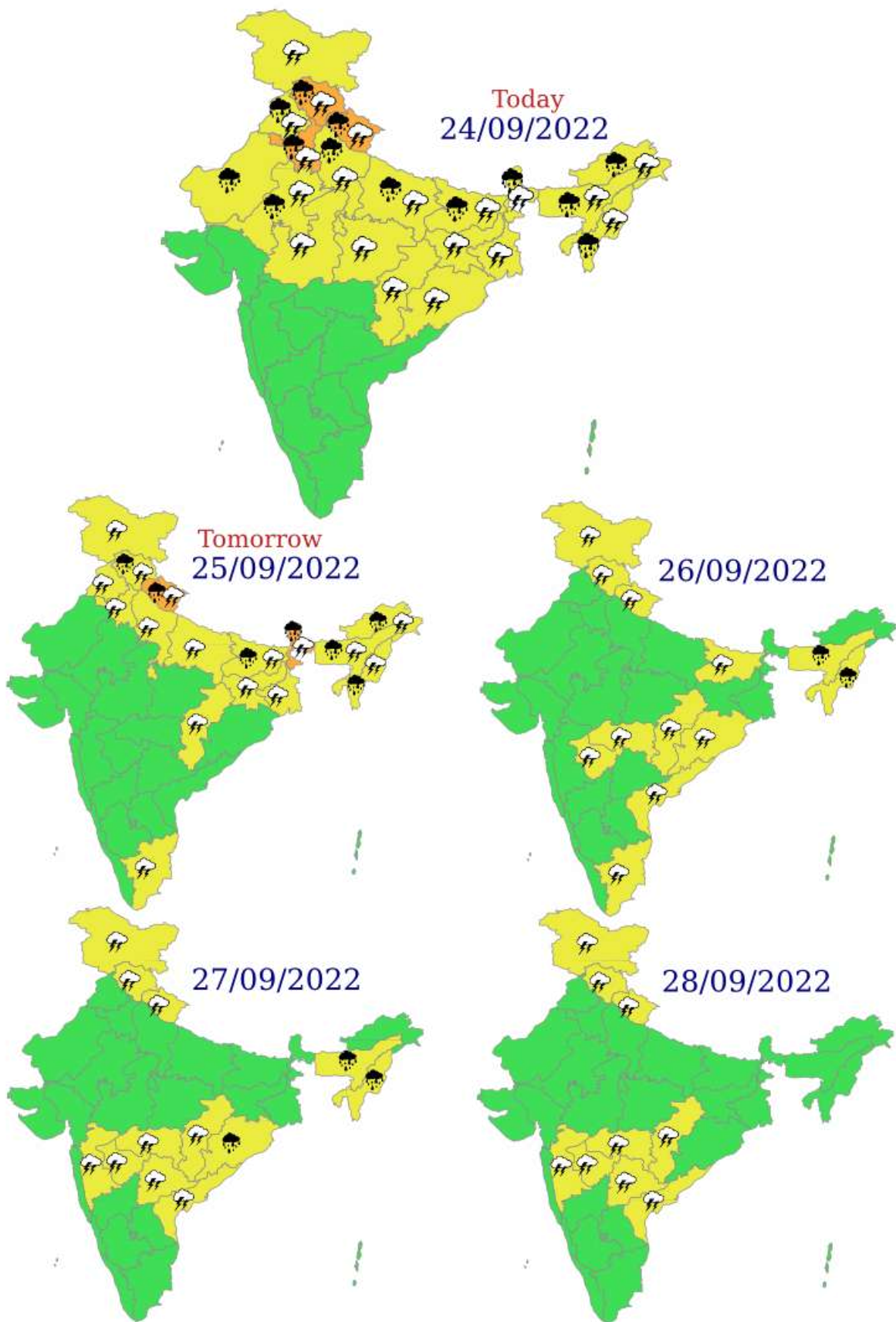
For more details kindly refer:

https://mausam.imd.gov.in/imd_latest/contents/all_india_forcast_bulletin.php

Very heavy rainfall occurred at isolated places over Haryana and East Rajasthan and **heavy rainfall** at isolated places over Punjab, Delhi, Uttar Pradesh, West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam, Nagaland, Manipur and Coastal Andhra Pradesh.

Rainfall (in cm):

- ❖ **Haryana:** Narnaul (dist Mahendragarh) 20, Narnaul Rev (dist Mahendragarh) 16, Karnal (dist Karnal) 15, Pataudi (dist Gurgaon) 15, Rohtak Rev (dist Rohtak) 14, Karnal Rev (dist Karnal) 13, Rohtak (dist Rohtak) 12, Nagina Rev (dist Nuh) 11, Sohana (dist Gurgaon) 11, Nilokheri (dist Karnal) 11, Badli Rev (dist Jhajjar) 11, Dadri Toye Edu Fmo (dist Jhajjar) 10, Sonapat (dist Sonapat) 10, Farukhnagar (dist Gurgaon) 10, Mahendragarh Aws (dist Mahendragarh) 10, Kharkoda (dist Sonapat) 9, Taoru (dist Nuh) 9, Gohana (dist Sonapat) 9, Beri (dist Jhajjar) 9, Nuh (dist Nuh) 9, Ateli (dist Mahendragarh) 9, Mahendragarh (dist Mahendragarh) 9, Gurgaon Aws (dist Gurgaon) 9, Jhajjar Aws (dist Jhajjar) 8, Rewari (dist Rewari) 8, Jhahhar (dist Jhajjar) 8, Manesar Rev (dist Gurgaon) 8, Boundkalan Rev (dist Charkhi Dadri) 8, Samalkha (dist Panipat) 7, Barwala Rev (dist Hisar) 7, Mandkhola Aws (dist Nuh) 7, Khanpur Rev (dist Sonapat) 7, Dharuheda Rev (dist Rewari) 7, Palhawas Rev (dist Rewari) 7, Palwal (dist Palwal) 7, Uklana Rly (dist Hisar) 7;
- ❖ **East Rajasthan:** Behror (Alwar) 15, Kotkasim Sr (Alwar) 13, Bahadurpur Sr (Alwar) 12, Jawaja (Ajmer) 11, Sikrai (Dausa) 10, Jamwaramgarh Sr (Jaipur) 10, Nagar Sr (Bharatpur) 10, Tapukara (Alwar) 9, Kishngarhwas Sr (Alwar) 9, Pahari Sr (Bharatpur) 9, Alwar Obs (Alwar) 9, Mandrayal Sr (Karauli) 7, Shahpura Sr (Jaipur) 7, Nainwa (Bundi) 7, Nimarana (Alwar) 7, Srimadhapur (Sikar) 7, Tizara Sr (Alwar) 7, Nadbai (Bharatpur) 7, Govindgarh Sr (Alwar) 7, Jaipur Tehsil Sr (Jaipur) 7, Jaipur Aero (Jaipur) 7, Kathumer (Alwar) 7;
- ❖ **East Uttar Pradesh:** Saradanagar (Kheri) 11, Nanpara(Bahraich) 9, Mahsi(Bahraich) 7, MAU Tehsil (Chitrakoot) 8;
- ❖ **Sikkim:** Mangan (PTO) : 11, Singhik : 11 Sankalan : 11;
- ❖ **Sub-Himalayan West Bengal:** Bagrakote : 10, Rongo : 10, Gazoledoba : 10, Jhallong : 09, Ghish(cwc) : 08, Sevoke : 08, Neora : 07, Nagrakata : 07;
- ❖ **Delhi:** Dhansa (southwest Delhi) 8;
- ❖ **West Uttar Pradesh:** Baheri (Bareilly) 8;
- ❖ **Punjab:** Sunam (dist Sangrur) 7;
- ❖ **West Rajasthan:** Sujangarh (Churu) & Taranagar/Reni (Churu) 7 each;
- ❖ **Arunachal Pradesh:** Upper Siang (Yingkiang) 7, West Kameng (Bhalukpong) 7, West Siang (Kabubasti) 7;
- ❖ **Assam:** Dibrugarh (Dillighat) 7, Kokrajhar (Gossaigaon Agri) 7, Lakhimpur(NT Xing (Ranganadi)) 7;
- ❖ **Nagaland & Manipur:** Kiphire (Kiphire) 7, Tuensang (Tuensang) 7, Ukhrul (Ukhrul) 7;
- ❖ **Coastal Andhra Pradesh:** Tekkali (dist Srikakulam) 7.



IMPACT EXPECTED & ACTION SUGGESTED DUE TO-

Isolated **very heavy rainfall** over **Uttarakhand on 24th & 25th**; **Himachal Pradesh & Haryana on 24th** and **Sub-Himalayan West Bengal & Sikkim on 25th 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) |



Heavy Rain



Strong Winds



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 |