Subject: (i) Isolated heavy rainfall very likely to continue over East Rajasthan, Madhya Pradesh and Gujarat state during next 5 days.
(ii) Isolated heavy rainfall very likely over Gangetic West Bengal and Odisha till 22nd.
(iii) Again a fresh spell of rainfall likely over Odisha from 26th September.

- Rainfall Amount recorded (from 0830 hours IST of yesterday to 0830 hours IST of today) (7 cm or more): Given at annexure.

Weather Systems:
- Monsoon trough lies to the south of its normal position and likely to remain so during next 5 days.
- A Low Pressure Area lies over southern parts of Gangetic West Bengal & neighbourhood with the associated cyclonic circulation extends upto middle tropospheric levels tilting south-westwards with height. It is likely to weaken gradually during next 48 hours and move west-northwestwards as a cyclonic circulation across north Odisha, north Chhattisgarh & north Madhya Pradesh during subsequent 3 days.
- A cyclonic circulation lies over East Rajasthan & neighbourhood at lower tropospheric levels and likely to persist during next 3 days.

Weather forecast and Warning:
i) Fairly widespread to widespread Rainfall with Isolated very heavy falls are likely over Gangetic West Bengal & Odisha on 21st; isolated heavy falls on 22nd September, 2021 and decrease in rainfall activity thereafter.
ii) Fairly widespread to widespread rainfall with Isolated heavy falls are likely over East Rajasthan & Gujarat Region during 21st-25th and over West Rajasthan on 21st & 22nd September, 2021.
iii) Scattered to fairly widespread rainfall with isolated heavy falls very likely over Uttarakhand during 21st-25th and over Himachal Pradesh, Punjab & Haryana during 21st-22nd September, 2021.
iv) Fairly widespread to widespread Rainfall with Isolated heavy falls are likely over East Madhya Pradesh, Vidarbha & Chhattisgarh till 24th September and decrease thereafter.
v) A cyclonic circulation likely to develop over Eastcentral & adjoining Northeast Bay of Bengal around 25th September. It is likely to move west-northwestwards and reach Odisha coast during subsequent 48 hours. Under its influence; a fresh spell of heavy rainfall likely over Odisha and adjoining areas from 26th September, 2021.

For detailed forecast and warning refer:
https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php
EXPECTED IMPACT & ACTION SUGGESTED due to Very Heavy Rainfall over Gangetic West Bengal, Odisha, East Madhya Pradesh and Gujarat Region on 21st September, 2021.

A. Impact Expected

- Localized Flooding of roads, inundation and 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 kutchta roads.
- Possibilities of damage to vulnerable structure.
- Localized 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**: Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; Himachal Pradesh, 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 Table](image)

![Probabilistic Forecast Table](image)
24-hour accumulated rainfall (in cm) realised over the country (from 0830 hrs IST of 20th to 0830 hrs IST of 21st September, 2021)

**Gangetic West Bengal:** Sagar Island-21, Dumdum-13, Salt Lake- 12, Diamond Harbour, Canning-11 each, Barrackpore, Jhargram- 10, Haldia, Malda-9, Midnapore-8, Mohanpur, Kalaikunda-7; **Konkan & Goa:** Thane-16, Sindhudurg-10; **East Madhya Pradesh:** Balaghat-14, **Gujarat region:** Narmada-13, Chhota Udaipur, Surat-9, Kheda-8, Ahmedabad-7; **Odisha:** Sambalpur, Hirakud-11 each, Dhenkanal-8, Angul, Jagatsinghpur, Keonjargarh-7 each; **West Madhya Pradesh:** Alirajpur, Harda-11 each, Agar, Malwa-7 each; **East Rajasthan:** Bhilwara-8 Sirohi-7; **East Uttar Pradesh:** Kheri, Sitapur-8 each, Kannauj-7; **Bihar:** Buxar-8; **Chattisgarh:** Bastar-7; **Tamilnadu:** Kallakurichi-11, Tiruavannamalai-10, Cuddalore, Tirupattur-9 each; **Himachal Pradesh:** Bilaspur-7; **Marathwada:** Parbhani-9, Jalna-8; **Rayalseema:** Chittor-9; **Telangana:** Medak-13, Vikarabad- 10, Kothagudem, Kumaram Bheem- 8, Jagtial, Karimnagar, Malkajgiri, Mahabubabad, Warangal-7, **Punjab:** Kapurthala- 9; **Uttarakhand:** Bageshwar-10; **North interior Karnataka:** Vijayapura, Yadgir- 11, Raichur-8, Kalaburgi-7; **South interior Karnataka:** Kolar-11; **Vidarbha:** Nagpur-12, Yeotmal-9.