Subject: (i) Isolated heavy rainfall very likely to continue over East Rajasthan, West Madhya Pradesh, Gujarat state and north Konkan during next 5 days.
    (ii) A fresh spell of heavy rainfall likely over Odisha and Gangetic West Bengal 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 cyclonic circulation lies over south Chhattisgarh & neighbourhood and extends upto middle tropospheric levels. It is very likely to move west-northwestwards across Madhya Pradesh during next 3 days.
✓ A cyclonic circulation lies over southwest Rajasthan & neighbourhood at lower tropospheric levels and likely to persist during next 2 days.
✓ A cyclonic circulation lies over Myanmar coast & adjoining Gulf of Martaban and extends upto middle tropospheric levels. It is likely to move northwestwards and emerge into Northeast & adjoining Eastcentral Bay of Bengal. Under its influence, a Low Pressure Area is likely to form over the same region around 24th evening. It is very likely to move west-northwestwards towards Odisha coast during subsequent 48 hours.

Weather forecast and Warning:

i) Fairly widespread to widespread rainfall with isolated heavy falls very likely over East Rajasthan, West Madhya Pradesh, Gujarat state, Konkan & Goa and Coastal Andhra Pradesh during next 5 days. Isolated very heavy falls is also likely over Gujarat Region on 25th & 26th; Saurashtra & Kutch on 26th & 27th and over Coastal Andhra Pradesh on 26th September, 2021.
ii) Due to likely formation of **Low Pressure Area** over Northeast & adjoining Eastcentral Bay of Bengal around 24th evening and its west-northwestwards movement, a fresh spell of **heavy rainfall** likely over Odisha and Gangetic West Bengal from 26\textsuperscript{th} September, 2021.

iii) Scattered to fairly widespread rainfall with **isolated heavy falls** very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana on today, the 23\textsuperscript{rd} September. **Isolated very heavy rainfall** likely over Punjab on today, the 23\textsuperscript{rd} September, 2021.

iv) Rainfall activity is likely to increase over Kerala & Mahe with fairly widespread rainfall & isolated heavy falls from 25\textsuperscript{th} September, 2021.

*For detailed forecast and warning refer:*

https://mausam.imd.gov.in/imd_latest/contents/all_india_forcast_bulletin.php
EXPECTED IMPACT & ACTION SUGGESTED due to Very Heavy Rainfall over Punjab on 23\textsuperscript{rd} September and over Gujarat Region on 23\textsuperscript{rd} & 25\textsuperscript{th} 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 kutcha 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.

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**SPATIAL DISTRIBUTION** (% of Stations reporting)

<table>
<thead>
<tr>
<th>% Stations</th>
<th>Category</th>
<th>% Stations</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>76-100</td>
<td>Widespread (WS/Most Places)</td>
<td>26-50</td>
<td>Scattered (SCT/ A Few Places)</td>
</tr>
<tr>
<td>51-75</td>
<td>Fairly Widespread (FWS/ Many Places)</td>
<td>1-25</td>
<td>Isolated (ISOL)</td>
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</tbody>
</table>

**Probabilistic Forecast**

<table>
<thead>
<tr>
<th>Terms</th>
<th>Probability of Occurrence (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unlikely</td>
<td>&lt; 25</td>
</tr>
<tr>
<td>Likely</td>
<td>25 - 50</td>
</tr>
<tr>
<td>Very Likely</td>
<td>50 - 75</td>
</tr>
<tr>
<td>Most Likely</td>
<td>&gt; 75</td>
</tr>
</tbody>
</table>
Annexure

24-hour accumulated rainfall (in cm) realised over the country (from 0830 hrs IST of 22nd to 0830 hrs IST of 23rd September, 2021)

**East Uttar Pradesh**: Kheri-22; **Gujarat Region**: Valsad-17, Navsari-11, Mehsana-10, Surat-7; **East Rajasthan**: Sikar-15, Ajmer, Bharatpur, Udaipur-7; **West Madhya Pradesh**: Shivpuri-12, Shajapur, Indore, Neemuch-7; **Odisha**: Keonjhar-13, Balasore-7; **Jharkhand**: Latehar, Palamu-10, Ranchi-7; **Andaman & Nicobar Islands**: Carnicobar-7; **Coastal Andhra Pradesh & Yanam**: Vishakhapatnam-8; **Tamilnadu, Puducherry & Karaikal**: Madurai-7; **Telangana**: Sangareddy-10, Narayanpet-7; **Haryana**: Bhiwani-12, Jind-11, Sonepat, Mahendragarh-9, Hissar-8, Fatehabad-7; **Punjab**: Kapurthala-13, Faridkot-10, Jalandhar-7; **West Uttar Pradesh**: Bareilly-9; **Himachal Pradesh**: Bilaspur-8; **North Interior Karnataka**: Kalaburgi-7.