Government of India  
Ministry of Earth Sciences  
India Meteorological Department  

Press Release  
Date: 02nd September, 2022  
Time of Issue: 1300 hrs IST  

Subject: (i) Heavy rainfall spell over Extreme south Peninsular & Northeast India during next 5 days and over Bihar, Jharkhand and Sub-Himalayan West Bengal & Sikkim during next 3 days.  
(ii) Subdued rainfall activity over plains of northwest India and over Central India during next 5 days.  

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)  

- The monsoon trough at mean sea level runs north of its normal position.  
- A cyclonic circulation lies over Lakshadweep area & adjoining southeast Arabian Sea and extends upto mid tropospheric levels.  
- A trough runs from cyclonic circulation over Lakshadweep area & adjoining southeast Arabian Sea to Madhya Pradesh across Konkan at lower tropospheric levels.  
- An east-west trough runs from cyclonic circulation over Lakshadweep area & adjoining southeast Arabian Sea to southeast Bay of Bengal in lower & mid tropospheric levels.  
- Under the influence of the above systems:  
  - Fairly widespread/widespread rainfall with isolated heavy falls and thunderstorm/lightning very likely over Arunachal Pradesh and Assam & Meghalaya during next 5 days; over Nagaland, Manipur, Mizoram & Tripura during 2nd to 4th September. Isolated very heavy rainfall also likely over Arunachal Pradesh on 02nd & 03rd and Assam & Meghalaya on 03rd September, 2022.  
  - Fairly widespread/widespread rainfall with isolated heavy falls & thunderstorm/lightning very likely over West Madhya Pradesh on 02nd; Chhattisgarh on 06th; Bihar during 02nd-04th; Jharkhand on 02nd & 03rd and over Sub-Himalayan West Bengal & Sikkim during 02nd to 05th; Odisha on 05th & 06th September. Isolated very heavy rainfall over Sub-Himalayan West Bengal & Sikkim during 02nd - 04th September, 2022.  
  - Fairly widespread/widespread rainfall with isolated heavy falls and thunderstorm/lightning very likely over Coastal Karnataka on 02nd, 05th & 06th; North Interior Karnataka, Rayalaseema on 05th & 06th; Lakshadweep on 02nd, 03rd, 05th & 06th and over Tamil Nadu, Kerala & Mahe and South Interior Karnataka during next 5 days. Isolated very heavy rainfall also likely over Tamil Nadu & Lakshadweep on 02nd and South Interior Karnataka on 02nd & 06th and over Kerala & Mahe on 02nd, 05th & 06th September, 2022.  
  - Fairly widespread to widespread light/moderate rainfall with isolated heavy falls and thunderstorm/lightning very likely over Jammu & Kashmir on 04th; Himachal Pradesh on 04th & 05th; Uttarakhand during 03rd - 05th and over East Rajasthan on 02nd September, 2022. Isolated very heavy rainfall also likely over Uttarakhand on 04th September, 2022.  
  - Fairly widespread/widespread rainfall with isolated heavy falls and thunderstorm/lightning very likely over Madhya Maharashtra on 02nd September 2022.  
  - Subdued rainfall activity over plains of northwest India and over Central India during next 5 days.  

For more details kindly refer: https://mausam.imd.gov.in/imd_latest/contents/all_india_forcast_bulletin.php
Heavy to very heavy rainfall occurred at isolated places over Uttarakhand, West Madhya Pradesh, Jharkhand, Madhya Maharashtra, South Interior Karnataka and Lakshadweep area. Heavy rainfall occurred at isolated places over East Rajasthan, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Rayalaseema, Coastal & North Interior Karnataka, Tamilnadu and Kerala.

Rainfall (in cm):

- **Uttarakhand**: Bageshwar: Sama-17; Champawat: Banbasa-15; Dehradun: Haripur-10, Mussoorie-12; Nainital: haldwani-9; Pithoragarh: Dharchula-11.
- **West Madhya Pradesh**: Alirajpur (dist Alirajpur) 14, Gandhwani (dist Dhar) 9, Nalchha (dist Dhar) 9, Sonkatch (dist Dewas) 9, Manawar (dist Dhar) 9, Biaora (dist Rajgarh) 9, Dhundhadaka (dist Mandsaur) 7, Nisarpur (dist Dhar) 7, Roan (dist Bhind) 7, Mihona (dist Bhind) 7, Dahi (dist Dhar) 7, Mandsaur- aws (dist Mandsaur) 7, Ashta-aws (dist Sehore) 7.
- **Kerala**: Malappuram: Karipur-11.
- **Lakshadweep**: Minicoy-13.
- **Chhattisgarh**: Kusmi (dist Balrampur) 9.
- **Madhya Pradesh**: Sinnar (dist Nashik) 17.
- **Marathwada**: Ausa (dist Latur) 8, Bhokardan (dist Jalna) 8.
- **East Rajasthan**: Bhilwara-7; Ghatol-7.
- **Rayalaseema**: Allagadda (dist Kurnool) 8.
- **Bihar**: Gopalganj: Bhore -10.
- **East Madhya Pradesh**: Bilhari (dist Katni) 7, Niwari (dist Niwari) 7, Lavkushnagar (dist Chhatarpur) 7, Orchha (dist Niwari) 7.
- **Tamilnadu**: Tiruppur: Tiruppur Collectrate Camp-9, Kangeyam-8, Tiruvallur: Avadi-7; Coimbatore: Sulur-7, Cuddalore: Vanamadevi-7, Panruti-6
IMPACT EXPECTED & ACTION SUGGESTED DUE TO - Isolated very heavy rainfall over Uttarakhand on 4th, Sub-Himalayan West Bengal & Sikkim during 02nd-04th, Arunachal Pradesh and Assam & Meghalaya on 03th, Tamilnadu, South Interior Karnataka, Kerala & Lakshadweep on 02nd 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.
  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>
<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>
</tr>
</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>
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</tbody>
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Thunderstorm with Lightning