



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

**Press Release
Date: 15th October, 2023
Time of Issue: 1345 hours IST**

**Subject: 1) Wet spell likely to continue over Northwest India till 17th October, 2023.
2) Heavy to very heavy rainfall very likely to continue over Tamil Nadu and Kerala during next 2 days.**

**Rainfall recorded during past 24 hours till 0830 hours IST of today, the 15th Oct, 2023
(Annexure I)**

Withdrawal of Southwest Monsoon: (Annexure II)

- ❖ The line of withdrawal of Southwest Monsoon continues to pass through Forbesganj, Malda, 24.0°N/89.0°E, 20.0°N/89.0°E, Vishakhapatnam, Nalgonda, Raichur, Vengurla & 16.0°N/70.0°E.

Significant Weather features:

- ❖ Yesterday's **Western Disturbance** now seen as a cyclonic circulation over Jammu division & adjoining Pakistan in lower tropospheric levels and its induced cyclonic circulation lies over Punjab in lower levels. Another, Western Disturbance as a trough in middle tropospheric westerlies runs roughly along Long. 55°E to the north of Lat. 26°N.
- ❖ In addition, there is moisture feeding from Arabian Sea to northwest India in lower tropospheric levels.
- ❖ A cyclonic circulation lies over coastal Tamil Nadu & neighbourhood in lower tropospheric levels.
- ❖ Another **cyclonic circulation** lies over Lakshadweep area and adjoining Southeast Arabian sea & Kerala coast and extends upto 3.1 km above mean sea level. Under its influence, a **Low Pressure Area** is likely to develop over Southeast & adjoining Eastcentral Arabian Sea around 17th October. It is likely to move west-northwestwards and intensify further during subsequent 48 hours.

Weather warnings for next 5 days: (Graphics in Annexure III)

Northwest India: Light to moderate rainfall at many places accompanied with isolated thunderstorm & lightning very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh, Punjab on 15th & 16th, a few places over Uttar Pradesh and Rajasthan on 15th & 16th October, 2023 and isolated rainfall on 17th over the above areas.

Isolated **heavy rainfall** also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Punjab on 16th and over Himachal Pradesh on 15th & 16th October, 2023.

South India: Light to moderate rainfall at many places with isolated heavy rainfall, thunderstorm, gusty wind (30-40 kmph) & lightning very likely over Tamilnadu, Puducherry & Karaikal and Kerala & Mahe during 15th -17th; over Lakshadweep area on 15th & 16th and over South Interior Karnataka on 16th October, 2023.

Isolated **very heavy rainfall** also likely over Kerala on 15th & 16th October, 2023.

East India: Light to moderate rainfall at most places with isolated **heavy rainfall** accompanied with thunderstorm & lightning very likely over Andaman & Nicobar Islands during 15th to 19th October.

No significant weather over rest parts of the country during next 5 days.

For more details kindly refer:

https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

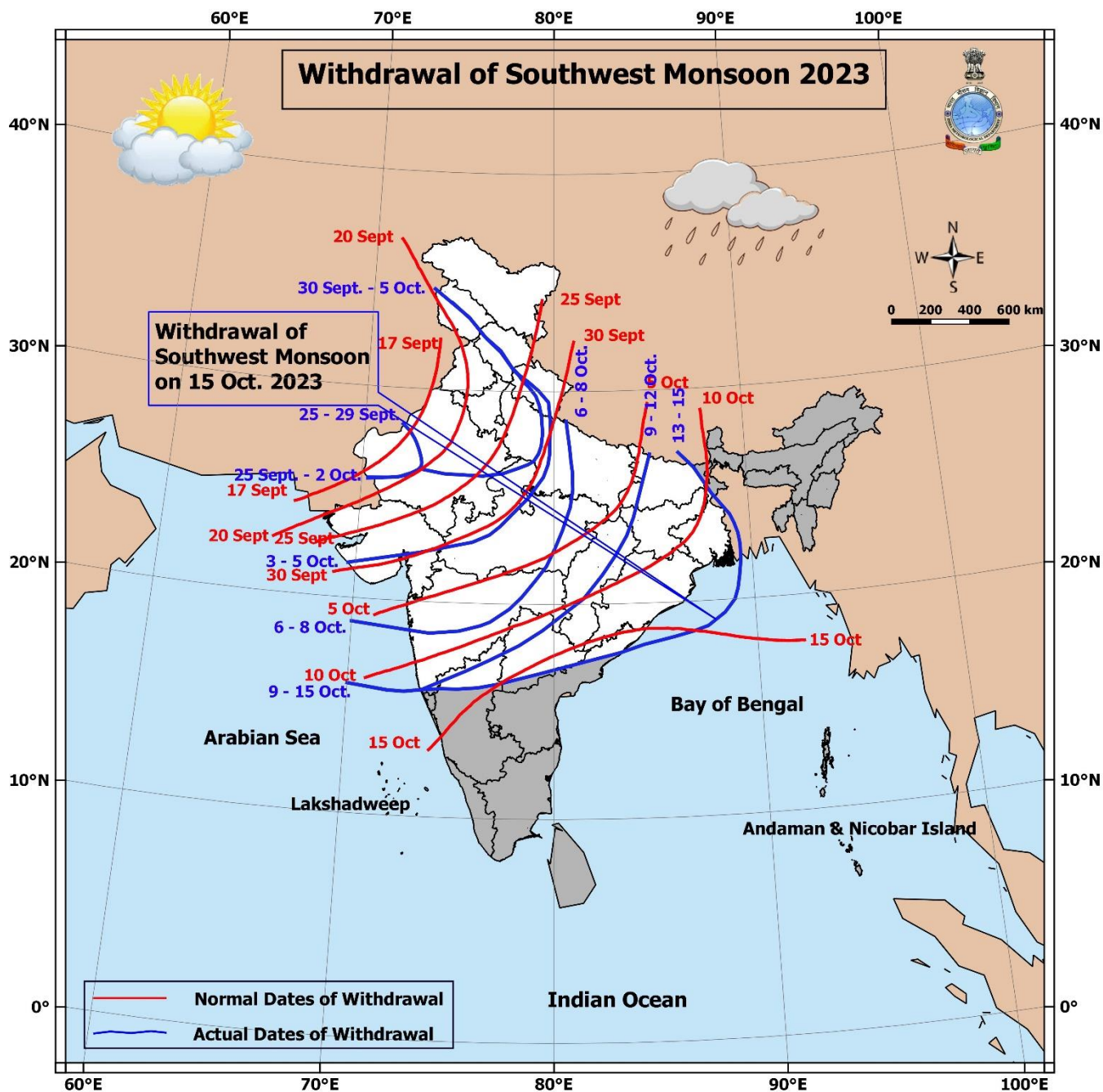
Annexure I

Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 15th October, 2023):

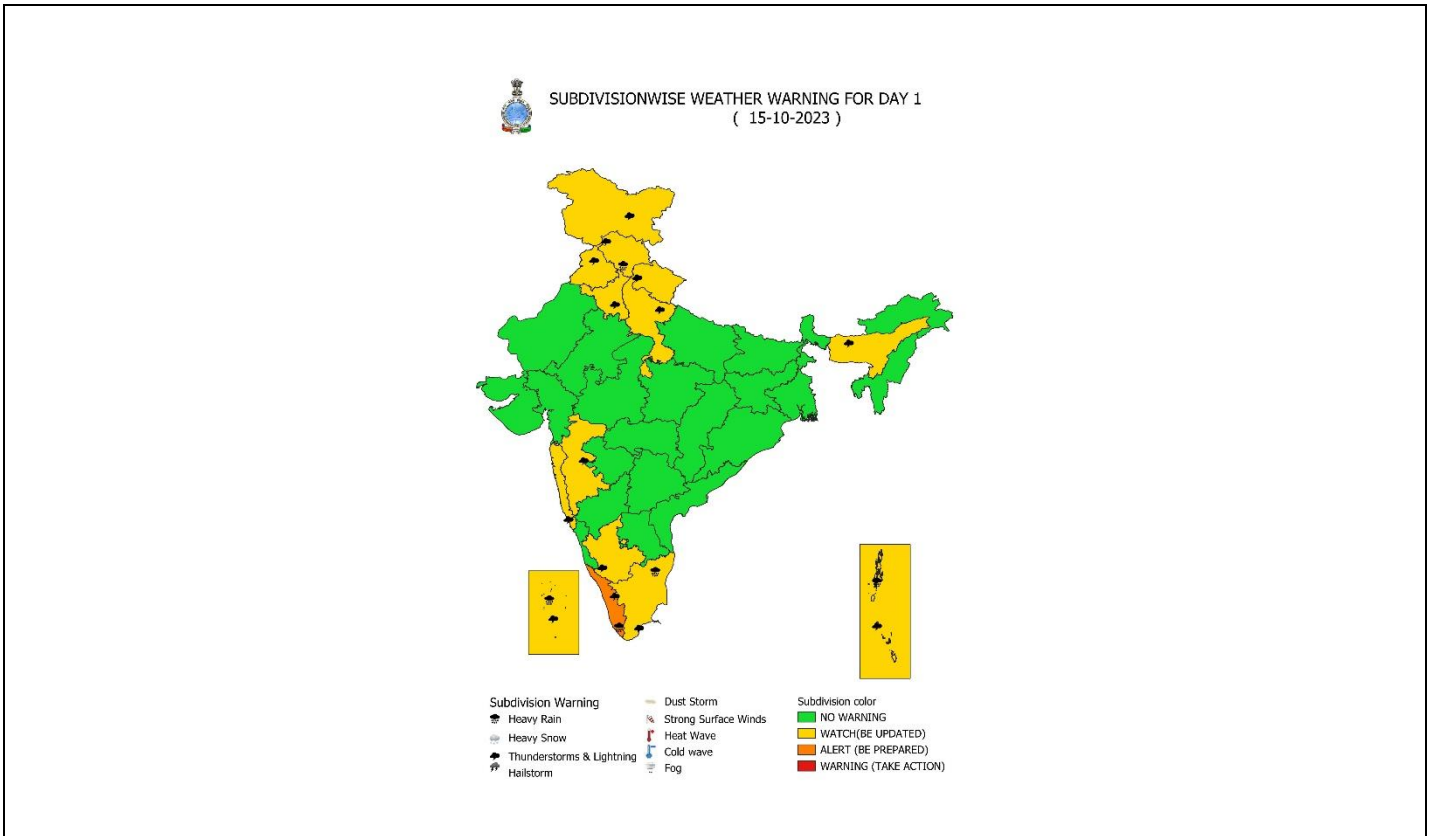
- ❖ **Extremely heavy rainfall** at isolated places over Kerala & Mahe and Heavy to very heavy rainfall at isolated places over Tamil Nadu.
- ❖ **Significant rainfall recorded (in cm):**
 - ✓ **Kerala & Mahe:** Trivandrum Aero (dist Thiruvananthapuram) 21, Cherthala (dist Alapuzha) 20, Mavelikara (dist Alapuzha) 17, Thiruvalla Aws (dist Pathanamthitta) 15, Ernakulam South (dist Ernakulam) 13, Alapuzha (dist Alapuzha) 13, Pirappancode Aws (dist Thiruvananthapuram) 13, Lower Sholayar Aws (dist Thrissur) 13, Palakkad (dist Palakkad) 12, Malampuzha Dam Aws (dist Palakkad) 12, Paripalli Aws (dist Kollam) 12, Kunnathanam Aws (dist Pathanamthitta) 12, Thiruvananthapuram (dist Thiruvananthapuram) 12, Thycauttussery Aws (dist Alapuzha) 11, Kumarakam (dist Kottayam) 11, Thattathumala Aws (dist Thiruvananthapuram) 10, Palluruthy Arg (dist Ernakulam) 10, Quilandi (dist Kozhikode) 9, Kayamkulam (dist Alapuzha) 9, Kodungallur (dist Thrissur) 9, Venkurinji Aws (dist Pathanamthitta) 9, Vaikom (dist Kottayam) 9, Aryankavu (dist Kollam) 8, Urumi Aws (dist Kozhikode) 8, Varkala (dist Thiruvananthapuram) 8, Kanjirapuzha Arg (dist Palakkad) 7, Chavara Aws (dist Kollam) 7, Cherthala Aws (dist Alapuzha) 7, Angadipuram (dist Malappuram) 7, Nilambur Aws (dist Malappuram) 7, Kurudamannil (dist Pathanamthitta) 7, Haripad (dist Alapuzha) 7, Enamakal (dist Thrissur) 7, Karumadi Aws (dist Alapuzha) 7, Mancompu (dist Alapuzha) 7,
 - ✓ **Tamil Nadu:** Mambzhathuraiyaru (dist Kanniyakumari), Anaikedanku (dist Kanniyakumari) 17 each, Mullanginavillai (dist Kanniyakumari), Kaliyal (dist Kanniyakumari) 16 each, Kuzhithurai (dist Kanniyakumari) 15, Thirparappu (dist Kanniyakumari), Kozhiporvilai (dist Kanniyakumari), Karur Paramathi (dist Karur) 14 each, Chittar (dist Kanniyakumari), Anaippalayam (dist Karur) 13, Sivalogam (dist Kanniyakumari) 12, Bhavani (dist Erode, Chinnakalar (dist Coimbatore) 11 each, Kurunthancode (dist Kanniyakumari), Thuckalay (dist Kanniyakumari), Kodanad (dist The Nilgiris), Perundururai (dist Erode) 10 each, Pechiparai (dist Kanniyakumari), Pullambadi (dist Thiruchirappalli), Cincona (dist Coimbatore), Sholavandan (dist Madurai), Gudalur Bazar (dist The Nilgiris) 9 each, Andipatti (dist Madurai), Upper Gudalur (dist The Nilgiris), Kallakudi (dist Thiruchirappalli), Zone 06 D65 Kolathur (dist Chennai), Kumarapalayam (dist Namakkal), Gangavalli (dist Salem), Mylaudy (dist Kanniyakumari), Paramathivelur (dist Namakkal), Valparai PAP (dist Coimbatore), 8 each, Kodaikannal Boat Club (dist Dindigul), Namakkal (dist Namakkal), Balamore (dist Kanniyakumari), Glenmorgan (dist The Nilgiris), Thirupathisaram AWS (dist Kanniyakumari) 7

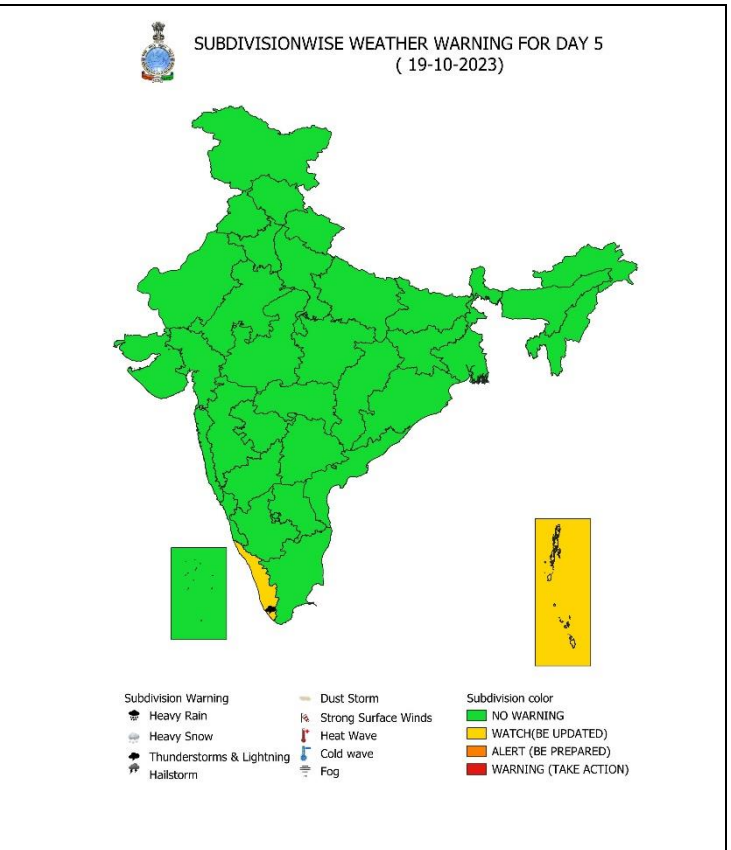
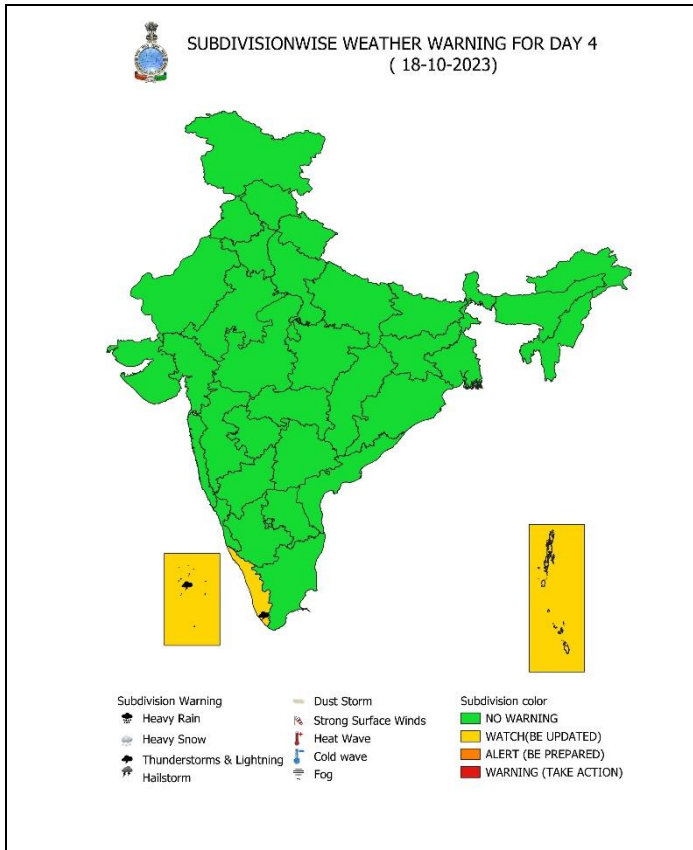
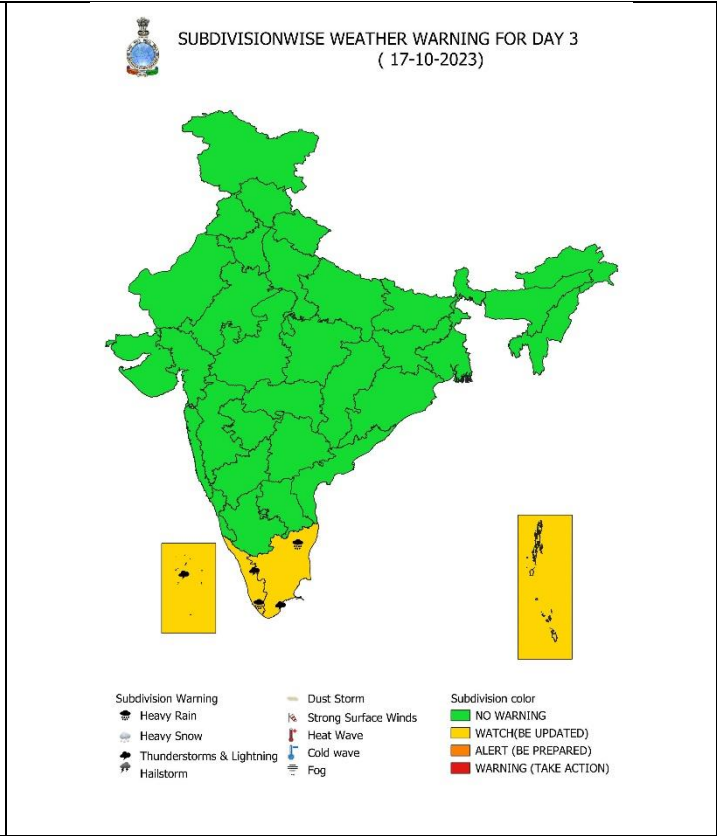
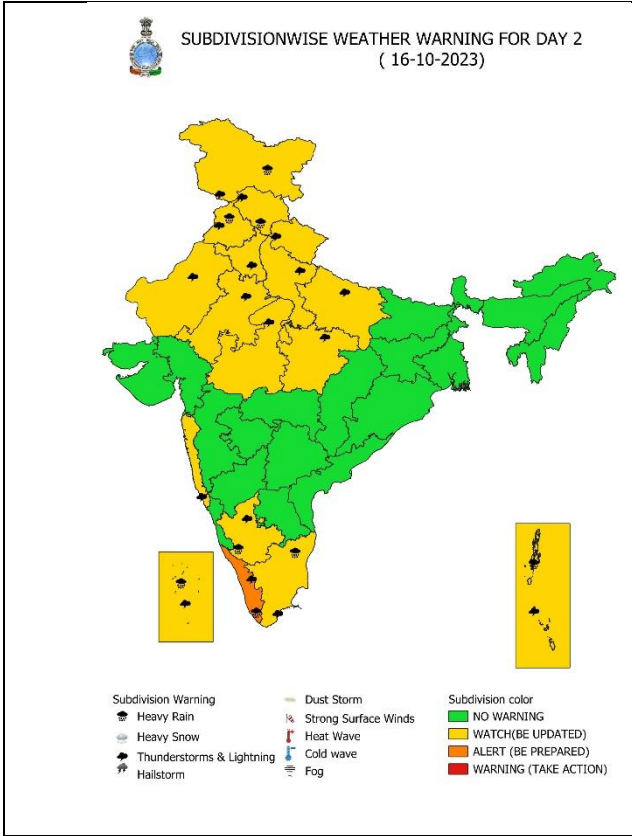
Obsy: Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation

Annexure II



Annexure III





Impact & Action Suggested due to heavy rainfall over Kerala & Mahe on 15th & 16th October, 2023.

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 in the hilly areas.
- ❖ 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:** >204.4mm.
- ❖ **AWS:** Automatic Weather Station
- ❖ **Region wise classification of meteorological Sub-Divisions:**
 - **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.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
 - **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 Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)

Subdivision Warning	Dust Storm	Subdivision color
 Heavy Rain	 Strong Surface Winds	 NO WARNING
 Heavy Snow	 Heat Wave	 WATCH(BE UPDATED)
 Thunderstorms & Lightning	 Cold wave	 ALERT (BE PREPARED)
 Hailstorm	 Fog	 WARNING (TAKE ACTION)

Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

Flash Flood Risk	
	High Risk (Take Action)
	Moderate Risk (Be Prepared)
	Low Risk (Be Updated)