



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

**Press Release**

**Date: 02<sup>nd</sup> July, 2023**

**Time of Issue: 1400 hours IST**

**Subject: (i) The Southwest Monsoon has covered the entire country today, the 2<sup>nd</sup> July.  
(ii) Heavy to very heavy rainfall likely over parts of south Peninsular India during next 5 days.**

**Weather observed during past 24 hours ending at 0830 hours IST of today (Annexure I):**

**Advance of Southwest Monsoon (Annexure II)**

❖ The Southwest Monsoon has further advanced into remaining parts of Rajasthan, Haryana and Punjab today, the 2<sup>nd</sup> July 2023. Thus, it has covered the entire country today, the 2<sup>nd</sup> July 2023, against the normal date of 08<sup>th</sup> July (6 days before the normal date of covering the entire India).

**Significant Weather features, Forecast and Warning during next 5 days: (Annexure III)**

- ❖ The Monsoon trough at mean sea level is south of its normal position.
- ❖ A cyclonic circulation lies over central parts of Uttar Pradesh in lower levels.
- ❖ The off-shore trough at mean sea level runs from south Maharashtra coast to Kerala coast.
- ❖ A cyclonic circulation lies over central parts of south Bay of Bengal in middle levels and another cyclonic circulation over north Andaman Sea in lower levels.

**Weather Forecast and Warning:**

**South India:** Light/moderate scattered to widespread rainfall very likely to continue over the region during next 5 days. **Isolated heavy to heavy rainfall** also likely over South Interior Karnataka, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe during next 5 days; over Coastal Andhra Pradesh & Yanam during 03<sup>rd</sup> to 05<sup>th</sup> July with **extremely heavy falls over Coastal & South Interior Karnataka on 04<sup>th</sup> and over Kerala & Mahe on 04<sup>th</sup> & 05<sup>th</sup> July**. Isolated **very heavy rainfall** also likely over Telangana on 04<sup>th</sup> & 05<sup>th</sup>; over Rayalaseema 03<sup>rd</sup> to 05<sup>th</sup>; over North Interior Karnataka 04<sup>th</sup> & 06<sup>th</sup> and over Lakshadweep on 04<sup>th</sup> July.

**West India:** Light/moderate fairly widespread to widespread rainfall with **isolated Heavy to very Heavy rainfall** is very likely over Konkan & Goa and Ghat areas of Madhya Maharashtra during next 5 days and Gujarat State on 02<sup>nd</sup> & 06<sup>th</sup> July.

**East & adjoining Northeast India:** Fairly widespread to widespread light/moderate rainfall with isolated **Heavy to Very Heavy falls** very likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura during next 5 days and over Bihar 02<sup>nd</sup> & 03<sup>rd</sup> with **extremely heavy falls over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim on 02<sup>nd</sup> & 03<sup>rd</sup> July**. Isolated **heavy rainfall** also likely over Gangetic West Bengal on 02<sup>nd</sup> & 03<sup>rd</sup>; over Jharkhand on 03<sup>rd</sup> & 04<sup>th</sup> and over Odisha during 03<sup>rd</sup>- 06<sup>th</sup> July.

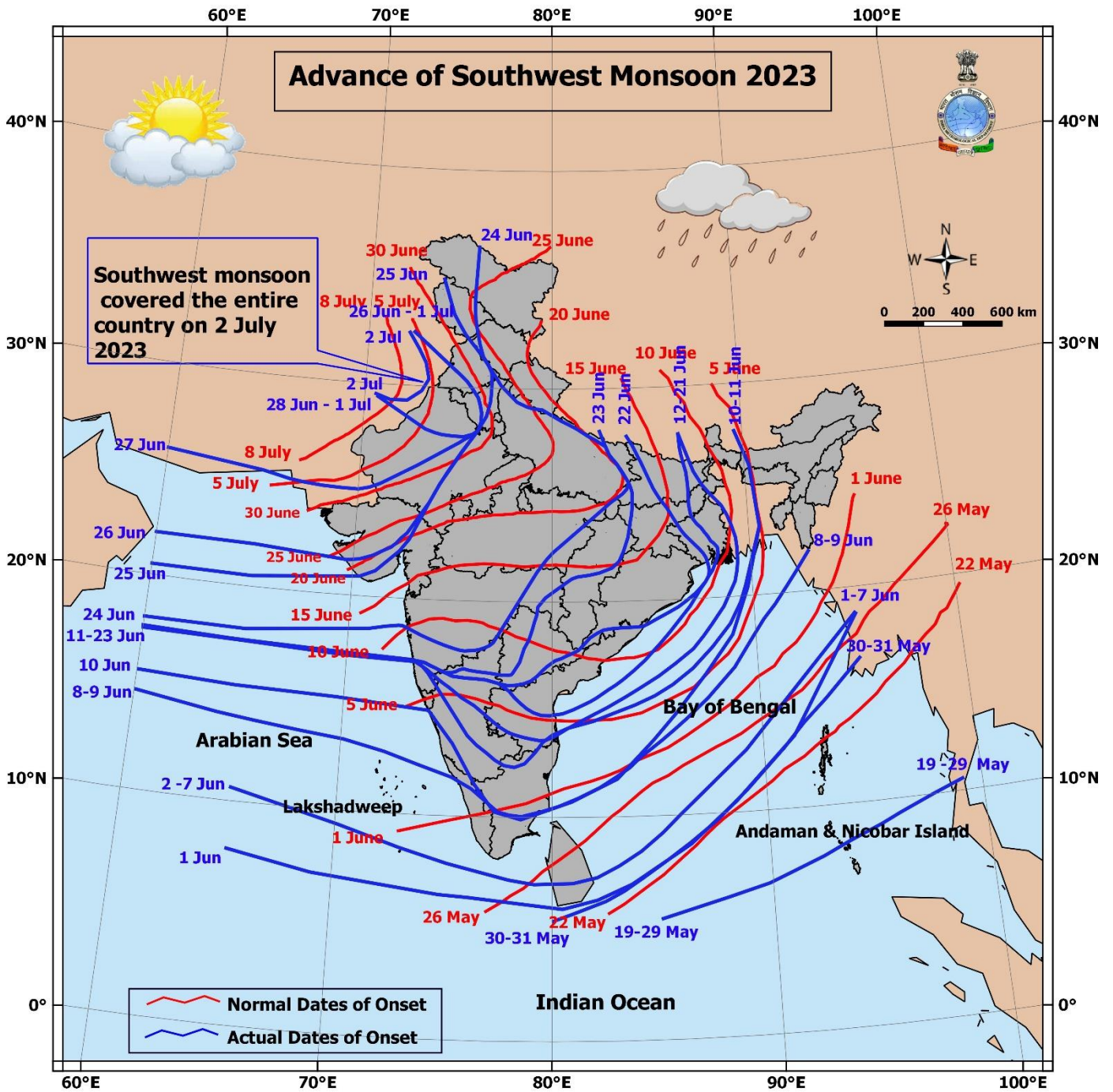
**No significant weather likely over rest parts of the country.**

For more details kindly refer:

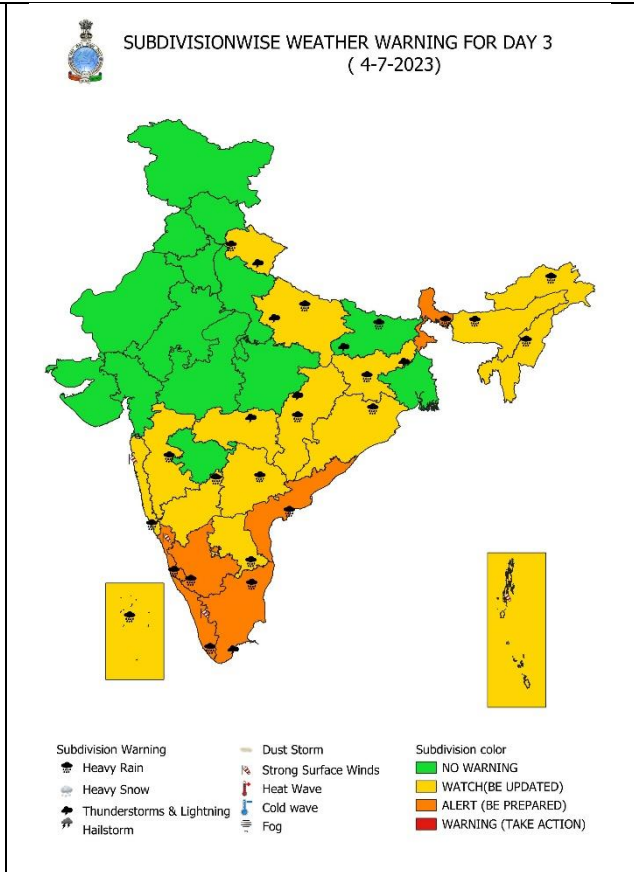
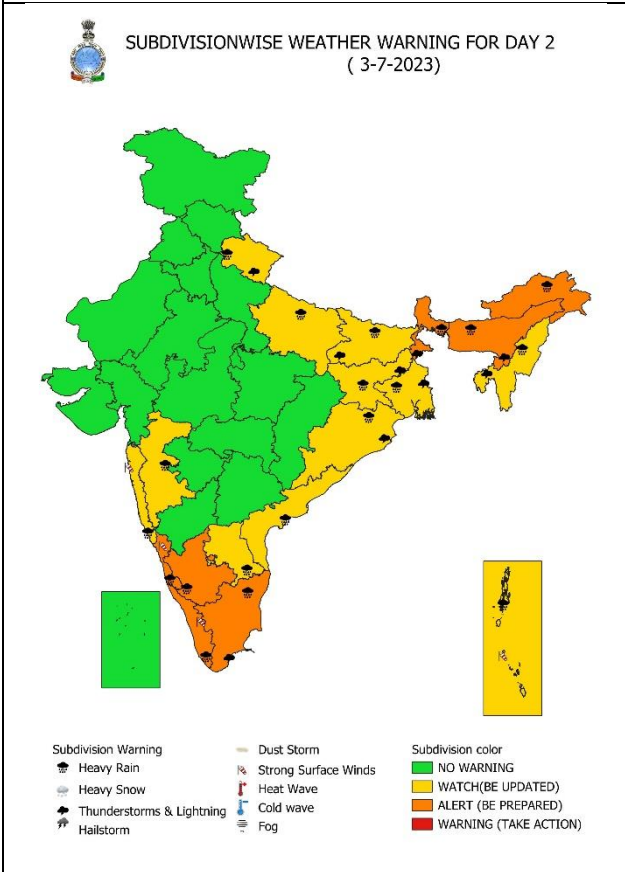
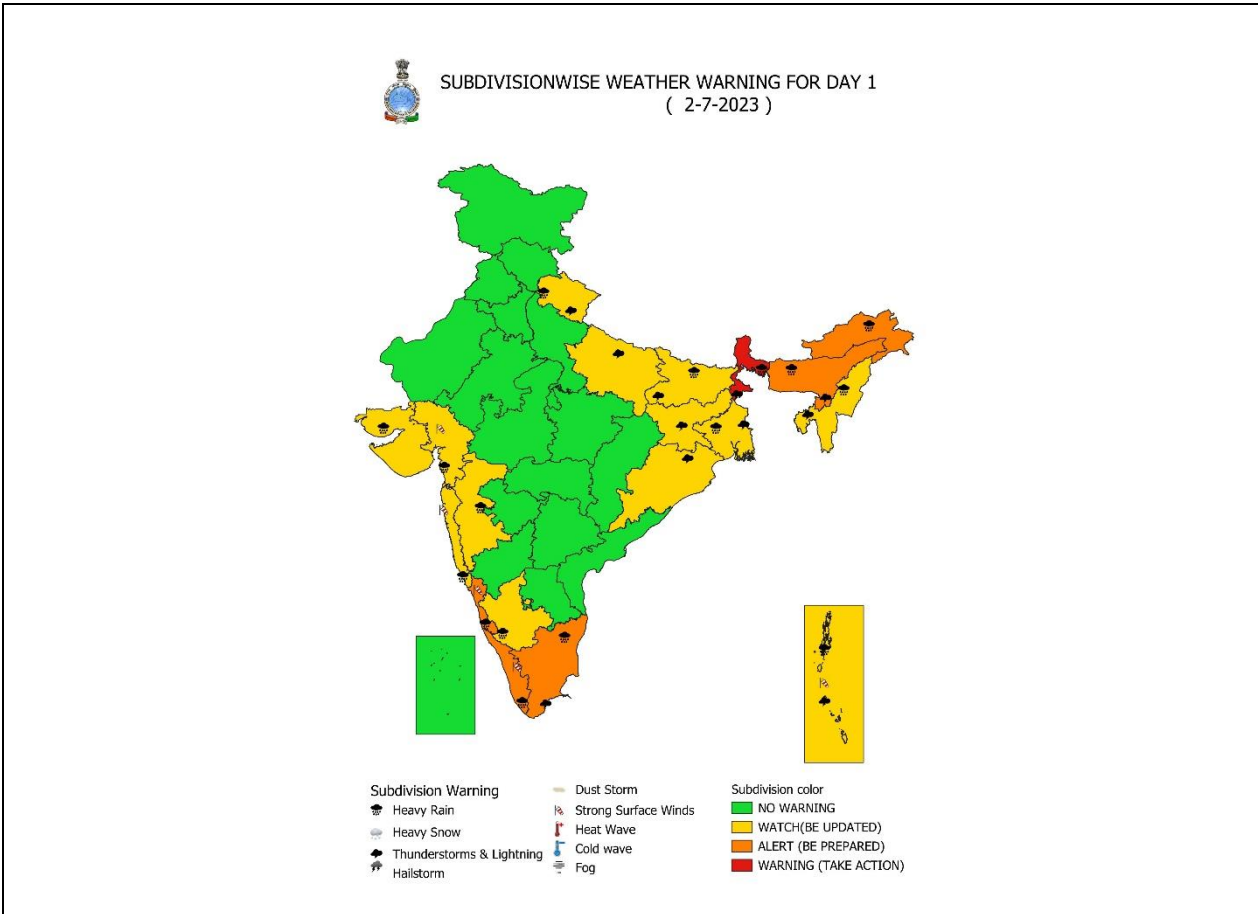
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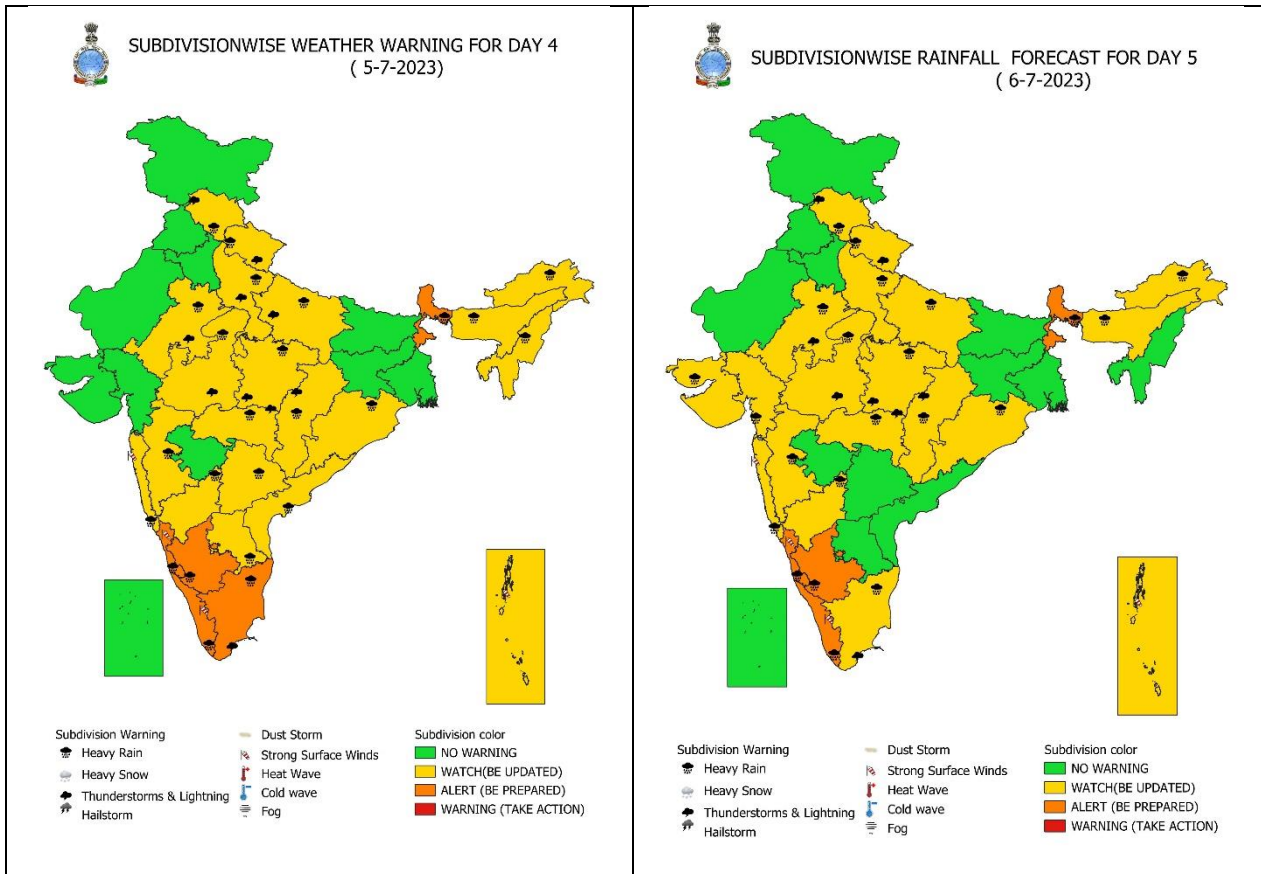
**Weather Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):**

- **Heavy Rainfall observed: Heavy to Very heavy with Extremely heavy rainfall** at isolated places over Sub-Himalaya West Bengal & Sikkim, Assam & Meghalaya, Gujarat Region; **Heavy to Very heavy rainfall** at isolated places over Jharkhand, Uttarakhand, Konkan & Goa, Saurashtra & Kutch and **Heavy rainfall** at isolated places over Uttar Pradesh, West Madhya Pradesh, East Rajasthan, Madhya Maharashtra, East Rajasthan, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Odisha.
- **Significant rainfall recorded (in cm): Gujarat Region:** Dharampur (dist Valsad) 23, Khergam (dist Navsari) 21, Kaprada (dist Valsad) 21, Pardi (dist Valsad) 18, Silvassa (dist Dadara & Nagar Haveli) 17, Valsad\_ Kvk Aws (dist Valsad) 15, Nanipalson (dist Valsad) 14, Chhota Udepur (dist Chhota Udepur) 13, Ankleshwer (dist Bharuch) 13, Chikhli (dist Navsari) 12, Madhbun (dist Dadara & Nagar Haveli) 12, Bharuch (dist Bharuch) 12, Dhandhuka\_arg (dist Ahmedabad) 12, Daman (dist Daman) 11, Maktampur\_aws (dist Bharuch) 11, Dhandhuka (dist Ahmedabad) 11, Vansda (dist Navsari) 11, Daman\_arg (dist Daman) 11, Valsad (dist Valsad) 10, Khanvel (dist Dadara & Nagar Haveli) 10, Vapi (dist Valsad) 10, Poshina (dist Sabarkantha) 10, Jalalpor (dist Navsari) 10, Lunawada (dist Mahisagar) 10, Waghai (dist Dangs) 9, Daman Fmo (dist Daman) 9, Gandevi (dist Navsari) 9, Navsari\_aws (dist Navsari) 9, Navsari (dist Navsari) 9, Umernagar (dist Valsad) 8, Valia (dist Bharuch) 8, Dangs (ahwa) (dist Dangs) 8, Kapadvanj (dist Kheda) 8, Anand (dist Anand) 7, Hansot (dist Bharuch) 7, Netrang (dist Bharuch) 7, Nadiad (dist Kheda) 7, Vaso (dist Kheda) 7, Dolvan (dist Tapi) 7, Jetpur Pavi (dist Chhota Udepur) 7; **Assam & Meghalaya:** Shella (dist East Khasi Hills) 22, Williamnagar (dist East Garo Hills) 20, Cherrapunji(rkm) (dist East Khasi Hills) 19, Cherrapunji (dist East Khasi Hills) 16, Mawkyrwat (dist South West Khasi Hills) 12, Hazuah (dist Barpeta) 12, Williamnagar\_ Aws (dist East Garo Hills) 11, Gossaigaon (dist Kokrajhar) 11, Panbari (dist Chirang) 9, Silapathar Arg (dist Dhemaji) 8; **Jharkhand:** Rajmahal 20, Jamua 7; **Saurashtra & Kutch:** Visavadar (dist Junagadh) 17, Bhesan (dist Junagadh) 15, Dhari (dist Amreli) 13, Chuda (dist Surendranagar) 11, Vallabhipur (dist Bhavnagar) 10, Limbdi (dist Surendranagar) 9, Barvala (dist Botad) 8, Talala (dist Gir Somnath) 8, Umralla (dist Bhavnagar) 8, Bhavnagar (dist Bhavnagar) 7, Barvala\_arg (dist Botad) 7, Shihor (dist Bhavnagar) 7; **Konkan & Goa:** Pen (dist Raigad) 13, Mokheda - Fmo (dist Palghar) 12, Quepem (dist South Goa) 12, Jawhar (dist Palghar) 11, Talasari (dist Palghar) 11, Vikramgad (dist Palghar) 10, Canacona (dist South Goa) 10, Wada (dist Palghar) 9, Bhiwandi (dist Thane) 8, Murbad (dist Thane) 8, Matheran (dist Raigad) 8, Lanja (dist Ratnagiri) 8, Sawantwadi (dist Sindhudurg) 8, Chiplun (dist Ratnagiri) 7, Dodamarg (dist Sindhudurg) 7, Tala (dist Raigad) 7, Sudhagad Pali (dist Raigad) 7, Kankavli (dist Sindhudurg) 7, Mangaon (dist Raigad) 7, Wakwali\_agri (dist Ratnagiri) 7, Dapoli\_agri (dist Ratnagiri) 7, Poladpur (dist Raigad) 7; **Uttarakhand:** Bhimtal-12, Lansdown-10, Syunsi-9, Nainital-9, Jollygrant-8, Bajpur-8, Jollygrant-7, Jeolikot-7, Haldwani-7, Tharali-7, Kashipur-7, Chorgalia-6, Bharsar-6, Rikhnikhali-6; **West Uttar Pradesh:** Nagina (Dist. Bijnor) 11; **West Madhya Pradesh:** Bajna (dist Ratlam) 11, Narwar (dist Shivpuri) 8, Biaora (dist Rajgarh) 7, Barod (dist Agar-malwa) 7, Makdone (dist Ujjain) 7, Zirapur (dist Rajgarh) 7, Sitamau (dist Mandsaur) 6, Gulana (dist Shajapur) 6, Alirajpur (dist Alirajpur) 6, Suvasara (dist Mandsaur) 6; **East Uttar Pradesh:** Mukhlispur (Dist. Gorakhpur) 10, Turtipar (Dist. Ballia) 8, Ballia Obsy (Dist. Ballia) 8, Dalmau Cwc (Dist. Rae Bareilly) 8, Sultanpur Obsy(Dist. Sultanpur) 8, Ankinghat (Dist. Kanpur Dehat) 7; **Madhya Maharashtra:** Peth (dist Nashik) 10, Igatpuri (dist Nashik) 9, Sangli - Imd Obsy (dist Sangli) 8, Trimbakshwar (dist Nashik) 8, Mahabaleshwar- Imd Obsy (dist Satara) 7, Gaganbawada (dist Kolhapur) 7; **East Rajasthan:** Asnawar Sr (dist Jhalawar) 7, Aspur (dist Dungarpur) 7; **Arunachal Pradesh:** Pasighat\_ Aero (dist East Siang) 7; **Nagaland, Manipur, Mizoram & Tripura:** Arundhutinagar (dist West Tripura) 7; **Odisha:** Rajnagar (dist Kendrapara) 7.



Annexure III





**Agromet advisories for rainfall, thunderstorms likely over various parts of the country:**

- Drain out excess water from crop fields to avoid water stagnation in Uttarakhand, East Uttar Pradesh, Andaman & Nicobar Islands, West Bengal, Sikkim, Bihar, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra (Ghat regions), Gujarat, Tamil Nadu, Kerala, Coastal Karnataka, South Interior Karnataka and North Eastern States.
- Postpone nursery sowing of *kharif* rice in Sub-Himalayan West Bengal and *Sali* rice in Meghalaya.
- Provide staking to vegetables.

**Impact & Action Suggested due to extremely heavy/very heavy rainfall** over Sub-Himalaya West Bengal & Sikkim, Coastal Karnataka & Kerala & Mahe during 02<sup>nd</sup> to 06<sup>th</sup>; over Tamil Nadu, Puducherry & Karaikal during 02<sup>nd</sup> to 05<sup>th</sup>; over South Interior Karnataka during 03<sup>rd</sup> to 06<sup>th</sup>; over Assam & Meghalaya, Arunachal Pradesh, Bihar on 02<sup>nd</sup> & 3<sup>rd</sup>; over Coastal Andhra Pradesh & Yanam on 04<sup>th</sup> July

#### **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:** >204.4mm.

❖ **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.

<b>SPATIAL DISTRIBUTION</b> (% 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)

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)

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