

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 07<sup>th</sup> June, 2024 Time of Issue: 1300 hours IST

# Subject:

- i. Heavy to very heavy rainfall likely over Maharashtra and Coastal & North Interior Karnataka during next 5 days.
- ii. Rainfall/thunderstorm likely at a few places likely to continue over Northwest India during next 2 days.
- iii. Heat wave conditions likely in isolated pockets over parts of east India, Uttar Pradesh and northeast Madhya Pradesh during next 5 days.

# Realised weather during past 24 hours till 0830 hours IST of today: (details in Annexure I)

- Yesterday, **No Heat wave conditions** prevailed in any parts of the country.
- Yesterday, Maximum temperatures were mostly in the range of 42-44°C over many parts of Madhya Pradesh; in some parts of Vidarbha; in isolated pockets of Haryana-Chandigarh-Delhi and West Uttar Pradesh and in the range of 40-42°C over some parts of Odisha; in isolated pockets of Chhattisgarh & Gujarat state.
- Yesterday, the highest maximum temperature of 45.2°C was reported at Orai (West Uttar Pradesh) over the country.
- Heavy to very heavy rainfall at isolated places over Madhya Maharashtra, Kerala & Mahe; heavy rainfall at isolated places over Rayalaseema, Tamil Nadu, Karnataka, Konkan & Goa, Tripura, Vidarbha and Telangana.
- Squally winds observed at isolated places over Rajasthan, Punjab, Haryana-Chandigarh-Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Uttar Pradesh.
- **Duststorm** observed at isolated places over Rajasthan.
- Hailstorm observed at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Madhya Pradesh.
- *Gusty winds/squally winds* data reported over the country is attached in Annexure II.

## Advance of Southwest Monsoon:

- ✤ The Northern Limit of Monsoon continues to pass through 17.0°N/60°E, 17.0°N/65°E, 16.5°N/70°E, Ratnagiri, Solapur, Medak, Bhadrachalam, Vizianagaram, 19.5°N/88°E, 21.5°N/89.5°E, 23°N/89.5°E and Islampur. (Annexure III)
- Conditions are favourable for further advance of Southwest Monsoon into some more parts of central Arabian Sea, some more parts of Maharashtra (including Mumbai), Telangana, remaining parts of Coastal Andhra Pradesh, some parts of south Chhattisgarh & South Odisha, remaining parts of Westcentral & more parts of Northwest Bay of Bengal during next 3-4 days.

#### Weather Systems and Forecast & Warnings: (Annexure IV)

- A cyclonic circulation lies over northeast Assam & neighbourhood in lower tropospheric levels. Strong southwesterly/southerly winds are prevailing from Bay of Bengal to northeastern States in lower tropospheric levels. Under their influence:
  - ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during next 7 days.
  - Isolated heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim during 07<sup>th</sup>-11<sup>th</sup>; Assam & Meghalaya during 08<sup>th</sup>-11<sup>th</sup>; Arunachal Pradesh during 09<sup>th</sup>-11<sup>th</sup>; Nagaland on 10<sup>th</sup> & 11<sup>th</sup> June, 2024. Isolated very heavy rainfall also likely over Assam & Meghalaya on 10<sup>th</sup> & 11<sup>th</sup> June.
- A shear zone runs roughly along 16°N in lower & middle tropospheric levels. A cyclonic circulation lies over south Telangana & neighbourhood and a trough runs from south Maharashtra to southeast Arabian off south Kerala in lower tropospheric levels. Under their influence:
  - ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm, lightning & gusty winds (40-50 kmph) likely over Konkan & Goa, Madhya Maharashtra, Marathwada, Karnataka, and Kerala & Mahe, Lakshadweep; isolated light to moderate rainfall over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Tamil Nadu, Puducherry & Karaikal during next 5 days.
  - Isolated heavy rainfall very likely over Kerala & Mahe during 07<sup>th</sup>-11<sup>th</sup>; South Interior Karnataka during 07<sup>th</sup>-09<sup>th</sup>; Tamil Nadu, Puducherry & Karaikal on 07<sup>th</sup>; Telangana on 07<sup>th</sup> & 10<sup>th</sup> and Coastal Andhra Pradesh & Rayalaseema on 07<sup>th</sup> June, 2024. Isolated very heavy rainfall likely over Kerala & Mahe on 07<sup>th</sup> & 08<sup>th</sup> June, 2024.
  - ✓ Isolated heavy to very heavy rainfall very likely over Konkan & Goa, Madhya Maharashtra, Coastal & North Interior Karnataka during 07<sup>th</sup>-11<sup>th</sup> June. Isolated extremely heavy falls also very likely over Konkan & Goa and Madhya Maharashtra on 10<sup>th</sup> & 11<sup>th</sup> June.
- ✤ A cyclonic circulation lies over northwest Madhya Pradesh and another over Bihar in lower tropospheric levels. Under their influence:
  - ✓ Isolated to scattered light to moderate rainfall accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over Bihar, Jharkhand, Gangetic West Bengal, Odisha, Madhya Pradesh, Vidarbha, Chhattisgarh during next 4-5 days.
  - Rainfall activity is likely to increase over Bihar, Jharkhand, Odisha, Gangetic West Bengal from 12<sup>th</sup> June, 2024.
  - ✓ Isolated hailstorm and squally winds (50-60 kmph) very likely over West Madhya Pradesh during 07<sup>th</sup>-09<sup>th</sup> and East Madhya Pradesh on 07<sup>th</sup> June, 2024.
- A Western Disturbance seen as a trough in middle tropospheric westerlies roughly along Long. 68°E to the north of Lat. 30°N. Prevailing southwesterly winds from Arabian Sea over the plains of Northwest India are likely to continue during next 2 days. Under their influence:
  - ✓ Isolated to scattered light to moderate rainfall accompanied with thunderstorm, lightning & gusty winds (40-50 kmph) very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 07<sup>th</sup>-09<sup>th</sup> June, 2024.
  - Isolated to scattered very light to light rainfall with thunderstorm, lightning & gusty winds (40-50 kmph) very likely over Punjab, Haryana-Chandigarh-Delhi and Rajasthan on 07<sup>th</sup> & 08<sup>th</sup> and west Uttar Pradesh on 07<sup>th</sup> June, 2024.
  - ✓ Duststorm and thundersquall very likely over West Rajasthan on 07<sup>th</sup> & 08<sup>th</sup>; Punjab, Haryana-Chandigarh-Delhi and East Rajasthan on 07<sup>th</sup> June, 2024.

✓ Isolated **hailstorm** very likely over West Rajasthan on 07<sup>th</sup> June, 2024.

#### Maximum temperature observation and forecast for next 5 days:

- Rise in maximum temperatures by 2-3°C very likely over East India during next 2 days and no significant change thereafter.
- No significant change in maximum temperatures very likely over Northwest India during next 2 days and rise by 2-3°C thereafter.
- No significant change in maximum temperatures very likely over rest parts of the country.

#### Heat Wave, Warm Night and Hot & Humid weather warning for next 5 days:

- Heat wave conditions very likely in isolated pockets of northeast Madhya Pradesh, Jharkhand during 08<sup>th</sup>-11<sup>th</sup>; Bihar on 09<sup>th</sup> & 10<sup>th</sup>; Odisha, Punjab, Haryana during 09<sup>th</sup>-11<sup>th</sup> June, 2024.
- Heat wave conditions very likely in isolated pockets of Uttar Pradesh on 07<sup>th</sup> and heat wave to severe heat wave conditions in some parts over the region during 08<sup>th</sup>-11<sup>th</sup> June, 2024.
- Hot and humid weather very likely to prevail over isolated pockets of Bihar, Gangetic West Bengal on 07th & 08th; Odisha, Jharkhand on 07th June, 2024.

For more details, kindly refer: https://mausam.imd.gov.in/responsive/all\_india\_forcast\_bulletin.php

#### Realised Rainfall during past 24 hours till 0830 hours IST of today:

Light to moderate rainfall accompanied with thunderstorm & lightning observed at most places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, South Interior Karnataka, Rayalaseema; at many places over Sub-Himalayan West Bengal & Sikkim, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Vidarbha, Telangana, Coastal Karnataka, North Interior Karnataka; at a few places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada and at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Bihar, Jharkhand, Gangetic West Bengal and Odisha.

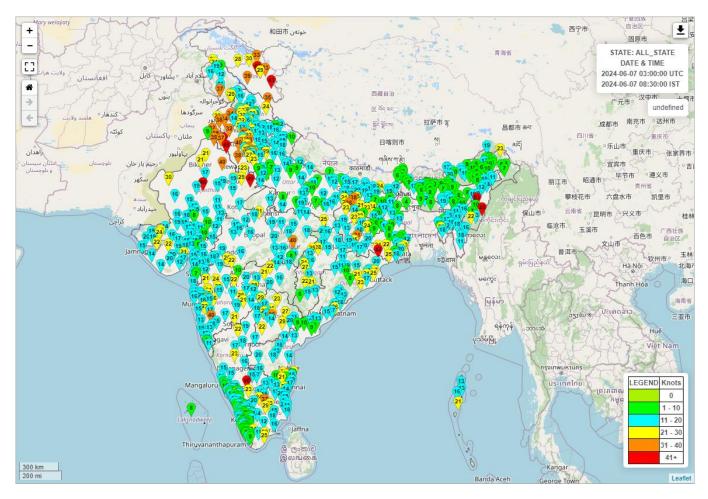
#### Significant amount of rainfall (in cm):

- Madhya Maharashtra: Pandharpur (dist Sholapur) 13, Daund (dist Pune) 7, Sangamner (dist Ahmednagar) 6
- Kerala & Mahe: Pookot (Wayanad district) 14, Irinjalakuda (Thrissur district) 12, Irikkur (Kannur district) & Peechi AWS (Thrissur district) 9 each, Vellanikkara (Thrissur district) 8, AMS KANNUR (Kannur district) & Padinjarathara Dam AWS (Wayanad district) 7 each;
- Tamil Nadu, Puducherry & Karaikal: Arakonam (dist Ranipet) 11,Kottaram (dist Kanniyakumari), Thiruvalangadu (dist Tiruvallur), Taluk Office Pandalur (distThe Nilgiris) 10 each,Madathukulam (dist Tiruppur), Kurunthancode (dist Kanniyakumari), Walajabad (distKancheepuram), Tondi (dist Ramanathapuram) 9 each,Vembakkam (dist Tiruvannamalai), Modakkurichi (dist Erode), Cuddalore (dist Cuddalore),Nagercoil (dist Kanniyakumari) 8 each,Mylaudy (dist Kanniyakumari), Nagercoil ARG (dist Kanniyakumari), Vanamadevi (distCuddalore), Vedaranyam (dist Nagapattinam), Vaniyambadi (dist Tirupathur), AruppukottaiKVK AWS (dist Virudhunagar), Kovilankulam (dist Virudhunagar), Tiruvallur (dist Tiruvallur),Namakkal (dist Namakkal), Tiruvadanai (dist Ramanathapuram), Namakkal AWS (distNamakkal), Peraiyur (dist Madurai), Chinnakalar (dist Coimbatore), Colachel (distKanniyakumari), Sendamangalam (dist Namakkal), Ranipet AWS (dist Ranipet) 7 each,
- Konkan & Goa: Chiplun (dist Ratnagiri) 10, Sangameshwar Devrukh (dist Ratnagiri) 7, Pernem (dist North Goa) 7, Vaibhavwadi (dist Sindhudurg) 6, Valpoi (dist North Goa) 6,
- South Interior Karnataka: H D Kote (dist Mysuru) 10, Shivamogga Pto (dist Shivamogga) 9, Agumbe Emo (dist Shivamogga) 9, Chintamani Pto (dist Chikaballapura) 8, Nayakanahatty (dist Chitradurga) 8, Honnali (dist Davangere) 7,
- North Interior Karnataka: Gokak (dist Belagavi) 9, Bailhongal (dist Belagavi) 9, Badami (dist Bagalkote) 9, Yedwad (dist Belagavi) 8, Vijayapura Pto (dist Vijayapura) 7, Yelburga (dist Koppal) 7, Nargund (dist Gadag) 7, Hunsagi (dist Yadgir) 7,
- Rayalaseema: Gummagatta (dist Anantapuramu) 9, Palasamudram (dist Chittoor) 7, Tanakal (dist Sri Sathyasai District) 7, Royachoti (dist Annamayya District) 7, Palamaner (dist Chittoor) 7, Bathalapalle (dist Sri Sathyasai District) 7,
- Coastal Karnataka: Manki (dist Uttara Kannada) 8, Siddapura (dist Udupi) 6, Gokarna (dist Uttara Kannada) 4,
- Telangana: Palakurthi (dist Jangaon) 7, Mahabubabad (dist Mahabubabad) 6,
- \* Tripura: Udaipur (dist Gomati) 7, Lembuchhera (dist West Tripura) 7, Chhamonu (dist Dhalai) 7,
- Vidarbha: Joiti (dist Chandrapur) 7, Sironcha (dist Gadchiroli) 4, Digras (dist Yeotmal) 2,

#### Reported maximum wind speed (kmph) during past 24 hours till 0830 hours IST of today:

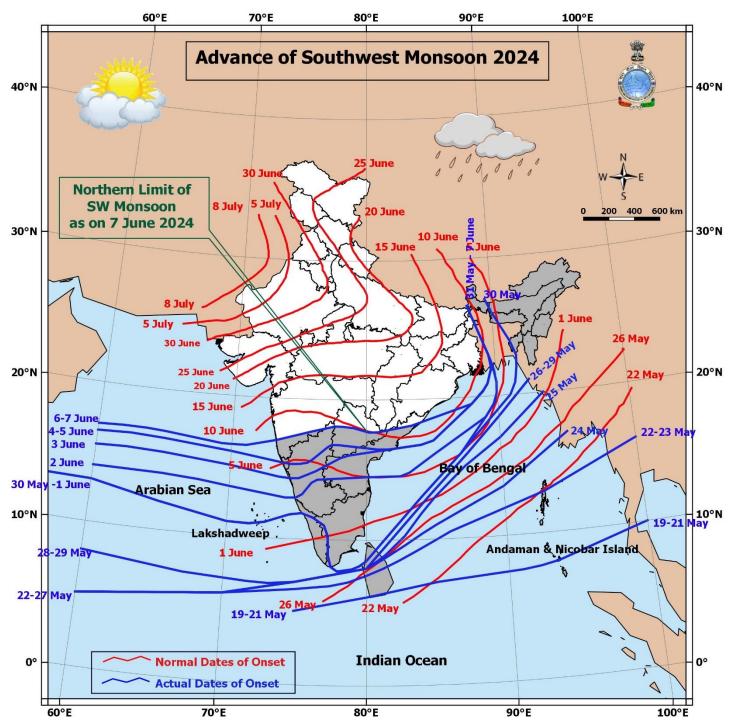
- Manipur: Senapati-98, Kamjong-89
- Rajasthan: Karauli-91, Sikar-74, Jaisalmer-55, Dausa-54, Jaipur-52
- South Interior Karnataka: Mandya-89, Chamarajanagar-42
- Haryana: Sirsa-83, Jind-74, Mahendragarh-70, Kaithal-68, Sonipat-64, Panipat-61, Mewat-61
- Odisha: Mayurbhanj-77, Kendrapara-50, Jagatsinghpur-46, Puri-42
- Madhya Maharashtra: Satara-74, Pune-48
- **East Madhya Pradesh:** Mandla-74
- Punjab: Faridkot-70, Fazilka-68, Jalandhar-63, Moga-63, Sahid Bhagat Singh Nagar-55
- Sihar: Patna-70, Arwal-67, Jamui-44, Supaul-44
- Jammu & Kashmir: Jammu-68, Kupwara-55
- \* Tamil Nadu: Namakkal-68, Tiruvallur-59, Toothukudi-54, Tenkasi-44
- ✤ Delhi: Central Delhi-66, South West Delhi-66
- Telangana: Ranga Reddy-66, Nalgonda-53, Nizamabad-53, Mahabubabad-50
- Himachal Pradesh: Lahaul & Spiti-65, Una-48
- Jharkhand: Khunti-57, Bokaro-44, Chatra-42, Hazaribagh-40
- ✤ Gangetic West Bengal: South Twenty Four Parganas-55, Purba Mednipur-46
- West Madhya Pradesh: Jalgaon-46

# Fig.: Gusty winds reported over the country (in knots, 1 Knot = 1.85 kmph) from 0830 hrs IST of 06.06.2024 to 0830 hrs IST of 07.06.2024



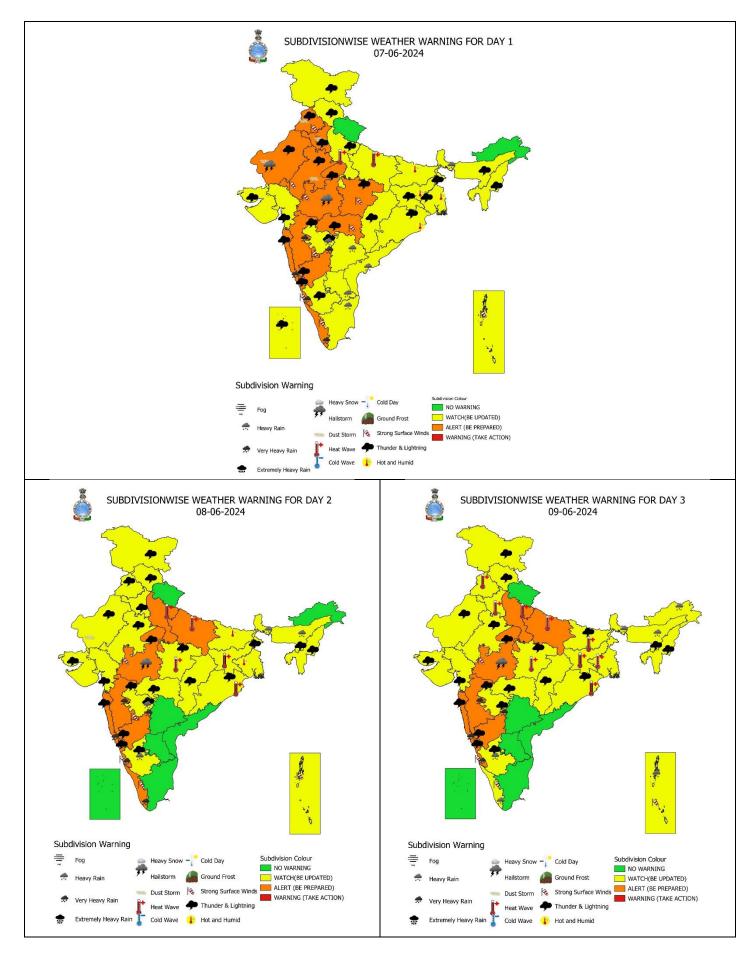
For more details, kindly refer: <u>http://aws.imd.gov.in:8091/</u>

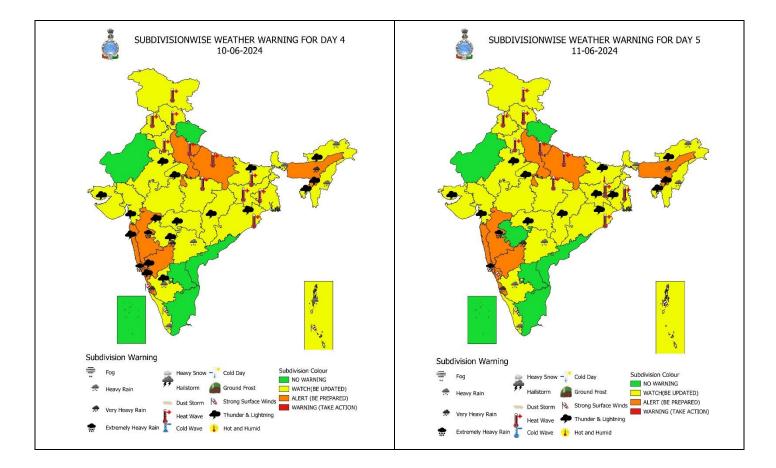
#### **ANNEXURE III**



#### **Advance of Southwest Monsoon 2024**

#### **ANNEXURE IV**





IMPACT & ACTION SUGGESTED due to very heavy rainfall/extremely heavy falls over Konkan & Goa, Madhya Maharashtra, Coastal Karnataka & North Interior Karnataka during 07<sup>th</sup>-11<sup>th</sup> June, 2024.

#### **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/landslips/mudslips/landsinks/mudsinks.
- > 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)

#### A. 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.

#### **IMPACT & ACTION SUGGESTED due to Heat Wave Conditions:**

#### Orange alert Areas:

- ➢ High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- > High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- > Avoid heat exposure keep cool. Avoid dehydration.
- > Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

#### Yellow alert Areas:

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- > Wear lightweight, light colour, loose, cotton clothes.
- > Cover your head, use a cloth, hat or umbrella.

Impact expected and action suggested due to thunderstorms, lightning/squall/gusty winds/Hailstorm over West Madhya Pradesh during 07<sup>th</sup>-09<sup>th</sup>; Punjab, Rajasthan, Haryana-Chandigarh-Delhi, East Madhya Pradesh on 07<sup>th</sup> June, 2024.

#### Impact expected:

- Strong wind/hail may damage plantation, horticulture and standing crops.
- > Hail may injure people and cattle at open places.
- > Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- ➢ Loose objects may fly.

#### Action suggested:

- Stay indoors, close windows & doors and avoid travel if possible.
- > Take safe shelters; do not take shelter under trees.
- > Do not lie on concrete floors and do not lean against concrete walls.
- > Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- > Keep away from all the objects that conduct electricity.

# Agromet advisories for Heavy Rainfall, Gusty winds, Hail Storms and Heat Wave likely over various parts of the country:

- Drain out excess water from crop fields to avoid water stagnation in Tamil Nadu, Kerala, Karnataka, Andhra Pradesh, Telangana, Maharashtra and Sub Himalayan West Bengal.
- > Apply light and frequent irrigation to standing crops to avoid heat stress; provide mulching to conserve soil moisture and minimise evaporation in Uttar Pradesh, Odisha, Jharkhand and East Madhya Pradesh.
- Use hail nets or hail caps in fruit orchards to prevent mechanical damage and provide mechanical support to horticultural crops & staking to vegetables in West Rajasthan and West Madhya Pradesh.
- Provide mechanical support to horticultural crops & amp; staking to vegetables to prevent damage from gusty winds.

## Legends & abbreviations:

- ✤ Heavy Rain:64.5-115.5mm; Very Heavy Rain:115.6-204.4mm; Extremely Heavy Rain: >204.4mm.
- Obsy: Observatory; AWS: Automatic Weather Station; dist: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office.
- **\*** 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-Himalayan 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 Marathawada.
  - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

N Chat's		DISTRIBUT	1 1	f Stations reporting)		
% Statio	g	2	% Stations			
76-100		VS/Most Places)	26-50	Scattered (SCT/ A Few Places)		
51-75	Fairly Widespred	FWS/ Many Places)	1-25	Isolated (ISOL)		
		a na na 🚺		Subdivision Colour		
=	Fr	Heavy Snow -	Cold Day	NO WARNING		
AND	Fog	7				
1	/	Hailstorm	Ground Frost	WATCH(BE UPDATED)		
	Heavy Rain			ALERT (BE PREPARED)		
		📄 Dust Storm 🛛 🗞	Strong Surface W	(inds WARNING (TAKE ACTION)		
		• •				
<b>*</b>	Very Heavy Rain	Heat Wave	Thunder & Lightn	ing		
	1	Cold Ways	List and Liverid			
•	Eutromoly Honey Dain	Cold Wave	Hot and Humid			
4444	Extremely Heavy Rain					
Probabilistic Forecast						
		Terms Pro	bability of Occurren	ice (%)		
		Likely	25 - 50			
		Very Likely Most Likely	50 - 75 > 75			

	( LEGENDS )				
	WARNING Probabilistic Forecast				
	WARNING (TAKE ACTION) Terms Probability of Occurrence (%)				
	ALERT ( BE PREPARED) Unlikely <25 Likely 25 - 50				
	WATCH (BE UPDATED) Very Likely 50 - 75				
	NO WARNING ( NO ACTION) Most Likely > 75				
	Heavy: 64.5 to 115.5 mm/cm *				
Rain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *				
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regio (a) Based on Departure from normal				
	Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.				
8.	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C				
87	(b). Based on Actual maximum temperature				
Heat Wave	<b>Heat wave:</b> when actual maximum temperature 245°C.				
	Severe Heat Wave: When actual maximum temperature ≥47°C				
	(c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum				
	temperature ≥37°C				
۹.	When maximum temperature remains 40°C				
Varm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.				
	Severe Warm Night: When minimum temperature departure >6.4 °C.				
	When minimum temperature of a station <10°C for plains and <0°C for billy regions				
	When minimum temperature of a station $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ C for hilly regions. (a). Based on departure				
	Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.				
Ω_	Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C				
	(b) Based on actual Minimum Temperature (for Plains only)				
Cold Wave	Cold Wave : When Minimum Temperature is ≤ 4.0 °C				
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C				
	(c) For Coastal Stations When Minimum Temperature departure is $< 4.5 ^{\circ}$ C %, extual Minimum Temperature is $< 15 ^{\circ}$ C				
	When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C				
0	When minimum temperature of a station $\leq$ 10°C for plains and $\leq$ 0°C for hilly regions Based on departure				
<b>_</b>	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.				
Cold Day	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C				
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Fog: When the visibility between 500-200 metres				
Ø	Dense Fog: when the visibility between 50- 200 metres				
Fog	Very Dense Fog: when the visibility < 50 metres				
-					
44	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)				
nunderstorm	sound (munder)				
. 🐴					
No.	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and				
Dust/Sand Storm	turbulent wind.				
	les devesite en evenuel				
55	Ice deposits on ground				
Frost	Air temperature ≤4°C ( over Plains)				
	A strong wind that rises suddenly, lasts for atleast 1 minute.				
	Moderate: Wind speed 52-61 kmph				
₹₹	Severe: Wind speed 62-87 kmph				
<b>F</b> Squall	Severe: Wind speed 62-87 kmph Very Severe: Wind speed >87 kmph				
<b>F</b> Squall	Very Severe: Wind speed >87 kmph				
FF Squall					
66	Very Severe: Wind speed >87 kmph           Effect of various waves in the sea over specific area           Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre           High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre				
Squall Sea State	Very Severe: Wind speed >87 kmph           Effect of various waves in the sea over specific area           Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre				
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(	Very Severe: Wind speed >87 kmph         Effect of various waves in the sea over specific area         Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre         High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre         Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre				
(	Very Severe: Wind speed >87 kmph         Effect of various waves in the sea over specific area         Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre         High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre         Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre         Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)         Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)				
(	Very Severe: Wind speed >87 kmph         Effect of various waves in the sea over specific area         Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre         High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre         Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre         Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)         Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)				