

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 07th September, 2024 Time of Issue: 1304 hours IST

Subject: In association with a well marked low pressure area, enhanced rainfall activity likely over Odisha, Coastal Andhra Pradesh & Telangana during 07th-10th September.

Realised weather during past 24 hours till 0830 hours IST of today (Annexure I)

Heavy to very heavy rainfall at isolated places East Rajasthan, Telangana; **Heavy rainfall** at isolated places over Uttarakhand, Haryana, West Rajasthan, Madhya Pradesh, Odisha, Coastal Andhra Pradesh, Kerala.

Weather Systems:

- ✓ A Well Marked Low Pressure Area lies over the northwest & adjoining central Bay of Bengal at 0830 hrs IST of today. It is likely to move nearly northwards and intensify into a Depression over northwest Bay of Bengal off North Odisha-West Bengal coasts on 8th September. Thereafter, it is likely to move west-northwestwards across Gangetic West Bengal, north Odisha, Jharkhand and adjoining north Chhattisgarh during subsequent 3 days.
- ✓ The monsoon trough is south of its normal position at mean sea level. It is likely to continue so for next 3-4 days.
- ✓ A cyclonic circulation lies over central Rajasthan & neighbourhood and extends upto middle tropospheric levels.

Forecast & Warnings (upto 7 days) (Annexure II & III):

***** West & Central India:

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over West India; Scattered to Fairly widespread light/moderate rainfall very likely over Central India during the week.
- ✓ Isolated very heavy rainfall very likely over ghat areas of Madhya Maharashtra on 08th & 09th and over Vidarbha on 12th September.
- Isolated heavy rainfall very likely over Madhya Pradesh during next 7 days; Gujarat Region on 07th; Chhattisgarh, Konkan & Goa during 07th -12th; Vidarbha during 08th -13th; Madhya Maharashtra during 07th -10th; Marathwada on 12th & 13th September.

South Peninsular India:

✓ Fairly widespread to widespread light/moderate rainfall very likely over Coastal Karnataka, Kerala & Mahe; Scattered to Fairly widespread light/moderate rainfall over Coastal Andhra Pradesh & Yanam, Telangana, Lakshadweep; isolated to scattered rainfall over Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Interior Karnataka during the week.

- ✓ Isolated extremely heavy rainfall very likely over Coastal Andhra Pradesh & Yanam on 08th September.
- Isolated very heavy rainfall very likely over Coastal Andhra Pradesh & Yanam and Telangana on 08th & 09th September.
- ✓ Isolated heavy rainfall very likely over Kerala & Mahe during 07th 09th; Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka during 07th 10th; Coastal Karnataka during 07th -11th September.

East & Northeast India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands during next 7 days; Scattered to Fairly widespread light/moderate rainfall very likely over Arunachal Pradesh during the week and East India during 06th-09th & fairly widespread to widespread light/moderate rainfall during 10th-12th September.
- ✓ Isolated very heavy rainfall very likely over Odisha during 08th -10th; Assam & Meghalaya during 10th -12th; Nagaland, Manipur, Mizoram & Tripura on 10th & 11th September.
- ✓ Isolated heavy rainfall very likely over Assam & Meghalaya & Nagaland, Manipur, Mizoram & Tripura during next 7 days; Odisha during 07th -11th; Arunachal Pradesh during 10th -13th; West Bengal & Sikkim during 09th -13th; Bihar and Jharkhand during 11th & 13th September.

Northwest India

- Scattered to Fairly widespread light/moderate rainfall very likely over Northwest India on 06th & 07th; isolated to scattered rainfall over the region during subsequent 5 days.
- ✓ Isolated **very heavy rainfall** very likely over East Rajasthan on 07th September.
- ✓ Isolated heavy rainfall very likely over West Uttar Pradesh on 07th; Haryana, West Rajasthan on 07th & 08th; Uttarakhand on 07th and during 09th -11th; East Uttar Pradesh on 10th & 11th; East Rajasthan during 07th -09th and on 13th September.

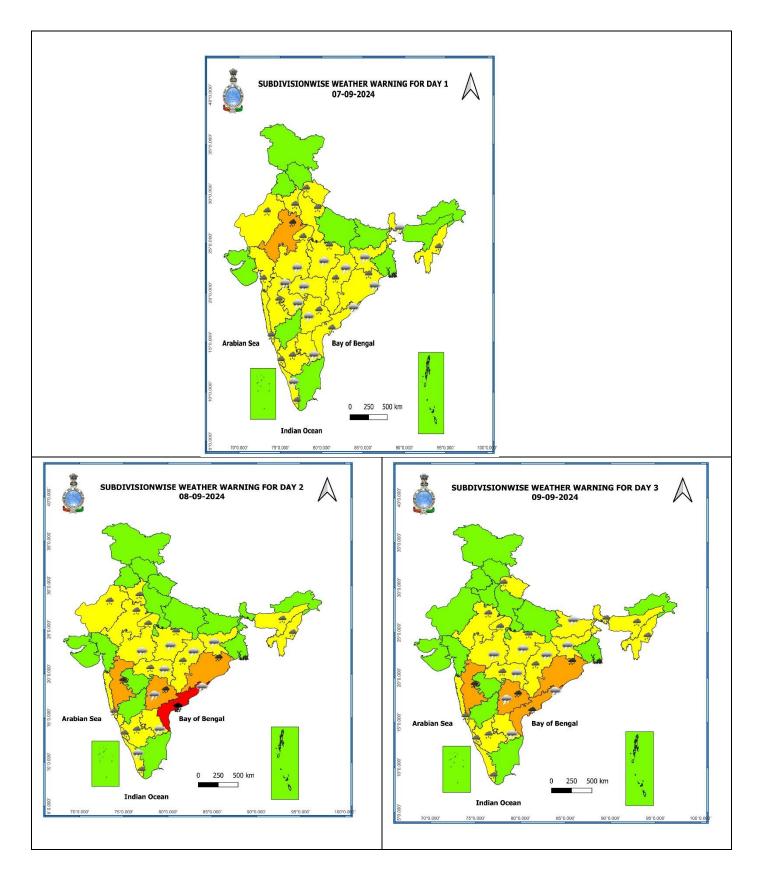
For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php **For District wise warnings refer:** <u>https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.ph</u>

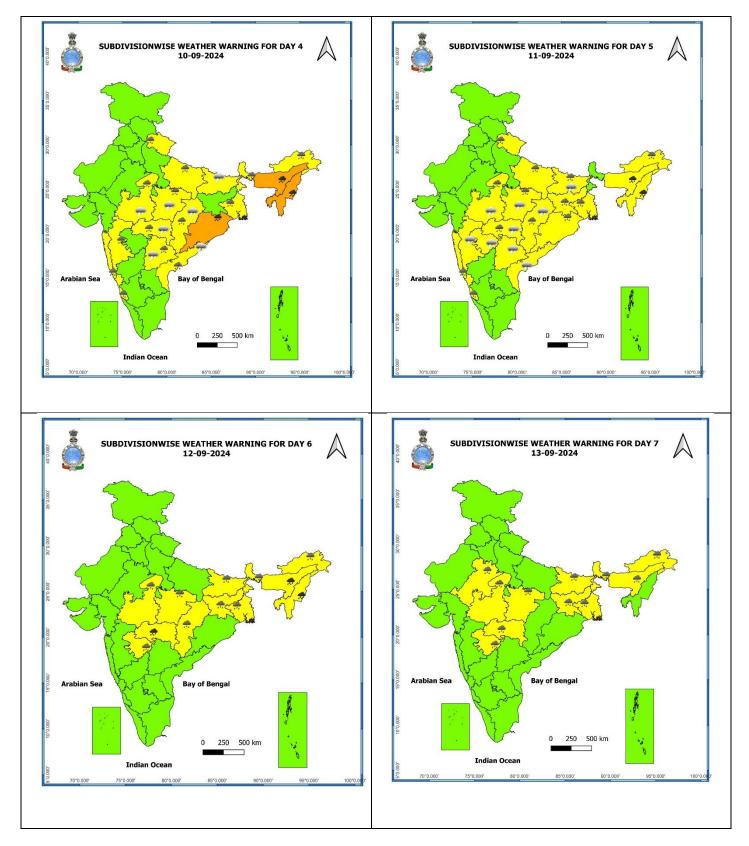
Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 07.09.2024 (in cm):

- East Rajasthan: Loharia (dist Banswara) 17, Deogarh (dist Rajsamand) 14, Pushkar Sr (dist Ajmer) 13, Baswa (dist Dausa) 12, Pachpahar Sr (dist Jhalawar) 10, Bhungra Sr (dist Banswara) 9, Ghatol (dist Banswara) 9, Pipalkhunt Sr (dist Pratapgarh) 8, Kesarpura Sr (dist Banswara) 8, Rajgarh (dist Alwar) 8, Banswara Sr (dist Banswara) 8, Dausa (dist Dausa) 8, Todabhim (dist Karauli) 8, Sikrai (dist Dausa) 7, Nimarana (dist Alwar) 7, Govindgarh Sr (dist Alwar) 7, Sawaimadhopur Tesil Sr (dist Sawai Madhopur) 7, Kotputli (dist Jaipur) 7, Ajmer Tehsil Sr (dist Ajmer) 7, Danpur (dist Banswara) 7, Pratapgarh (dist Pratapgarh) 7, Behror (dist Alwar) 7, Pisagan Sr (dist Ajmer) 7,
- Telangana: Angareddy (dist Sangareddy) 12, Suryapet (dist Suryapet) 9
- West Rajasthan: Raipur Sr (dist Pali) 10, Merta City (dist Nagaur) 7,
- Coastal Andhra Pradesh & Yanam: Palakonda (dist Parvathipuram Manyam) 9, Seethanagaram (dist Parvathipuram Manyam) 8, Merakamudidam (dist Vizianagaram) 8, Palakonda(arg) (dist Parvathipuram Manyam) 8,
- Haryana: Panchkula (dist Panchkula) 9, Jagadhari (dist Yamuna Nagar) 8, Panchkula (dist Panchkula) 7,
- Odisha: Khairamal (dist Boudhgarh) 8, Gosani (dist Gajapati) 8, Similiguda (dist Koraput) 7, Nandapur (dist Koraput) 7,
- Kerala & Mahe: Muliyar (dist Kasargode) 7,
- Uttarakhand: Loharkhet (Bageshwar) 7, Haripur (Dehradun) 6,
- East Madhya Pradesh: Narsinghpur-aws (dist Narsinghpur) 7,
- West Madhya Pradesh: Malhargarh (dist Mandsaur) 7,

7 Days Rainfall Forecast									
S. No.	Subdivision	07-Sep	08-Sep	09-Sep	10-Sep	11-Sep	12-Sep	13-Sep	
5.110.		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1	ANDAMAN & NICOBAR ISLANDS	WS							
2	ARUNACHAL PRADESH	SCT	SCT	SCT	FWS	FWS	FWS	FWS	
3	ASSAM & MEGHALAYA	SCT	SCT	FWS	WS	WS	WS	FWS	
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	SCT	FWS	FWS	WS	WS	FWS	
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	SCT	FWS	WS	FWS	FWS	FWS	
6	GANGETIC WEST BENGAL	SCT	SCT	FWS	WS	WS	WS	WS	
7	ODISHA	FWS	WS	WS	WS	FWS	SCT	SCT	
8	JHARKHAND	ISOL	SCT	SCT	FWS	WS	WS	FWS	
9	BIHAR	ISOL	ISOL	SCT	SCT	FWS	FWS	FWS	
10	EAST UTTAR PRADESH	ISOL	ISOL	SCT	FWS	FWS	FWS	FWS	
11	WEST UTTAR PRADESH	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT	
12	UTTARAKHAND	FWS	FWS	FWS	SCT	SCT	ISOL	ISOL	
13	HARYANA CHANDIGARH & DELHI	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	
14	PUNJAB	ISOL							
15	HIMACHAL PRADESH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	
16	JAMMU & KASHMIR AND LADAKH	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY	
17	WEST RAJASTHAN	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	
18	EAST RAJASTHAN	FWS	FWS	FWS	SCT	SCT	SCT	SCT	
19	WEST MADHYA PRADESH	FWS	SCT	SCT	SCT	FWS	FWS	FWS	
20	EAST MADHYA PRADESH	FWS	SCT	SCT	FWS	FWS	FWS	FWS	
21	GUJARAT REGION	WS	WS	WS	WS	WS	FWS	FWS	
22	SAURASHTRA & KUTCH	WS	WS	WS	FWS	FWS	FWS	FWS	
23	KONKAN & GOA	WS							
24	MADHYA MAHARASHTRA	FWS	FWS	SCT	SCT	FWS	FWS	FWS	
25	MARATHAWADA	FWS	FWS	SCT	SCT	FWS	FWS	FWS	
26	VIDARBHA	FWS	FWS	FWS	FWS	WS	WS	WS	
27	CHHATTISGARH	WS	WS	WS	FWS	FWS	FWS	FWS	
28	COASTAL ANDHRA PRADESH & YANAM	FWS	WS	FWS	SCT	SCT	SCT	SCT	
29	TELANGANA	WS	FWS	FWS	SCT	SCT	ISOL	ISOL	
30	RAYALASEEMA	SCT	FWS	SCT	ISOL	ISOL	ISOL	ISOL	
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL							
32	COASTAL KARNATAKA	WS							
33	NORTH INTERIOR KARNATAKA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	
34	SOUTH INTERIOR KARNATAKA	SCT	FWS	ISOL	ISOL	ISOL	ISOL	ISOL	
35	KERALA & MAHE	WS	WS	WS	WS	FWS	FWS	FWS	
36	LAKSHADWEEP	WS	WS	WS	FWS	FWS	FWS	FWS	

• As the lead period increases forecast accuracy decreases.





- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Impact due to

- ✓ Isolated **extremely heavy rainfall** very likely over Coastal Andhra Pradesh & Yanam on 08th September.
- Very heavy rainfall at isolated over East Rajasthan on 07th; ghat areas of Madhya Maharashtra on 08th & 09th and Vidarbha on 12th; Coastal Andhra Pradesh & Yanam and Telangana on 08th & 09th; Odisha during 08th -10th; Assam & Meghalaya during 10th -12th; Nagaland, Manipur, Mizoram & Tripura on 10th & 11th September.
- ✓ Low flash flood risk likely over few watersheds & neighbourhoods of Uttarakhand on 07th & 08th September. (ANNEXURE IV)

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.
- ✓ Reduction of visibility over sea area due to sea spray induced by strong wind and 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/mud slips/land sinks/mud sinks.
- ✓ 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)

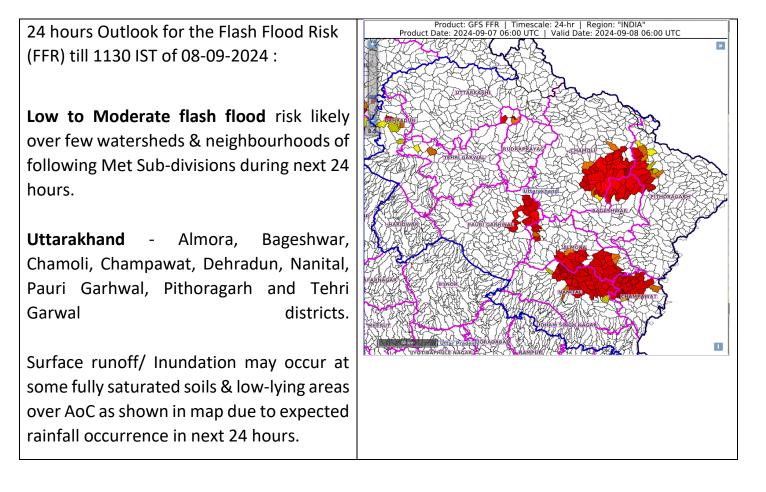
Action Suggested

- ✓ Judicious regulation of offshore/onshore Operations
- ✓ Judicious regulation of surface transports including railways and roadways.
- ✓ 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.

Agromet advisories for Heavy Rainfall likely over various parts of the country

- Drain out excess water from rice, pigeon pea, maize, sunflower, groundnut, soybean, vegetables and orchards in Maharashtra; from maize, cotton and soyabean in Rajasthan; from rice, soybean, red gram, maize, cotton and turmeric in Telangana; from rice, finger millet, maize and groundnut in Odisha to prevent water logging.
- Make provision for draining out excess water from standing crop fields and fruit orchards to avoid water stagnation in Assam & Meghalaya, NMMT, Vidarbha, Chhattisgarh, Konkan & Goa, Kerala, Coastal Karnataka and South Interior Karnataka.
- > Postpone transplanting of rice in North Coastal **Andhra Pradesh**.
- > Provide mechanical support to horticultural crops & staking to vegetables.
- > Keep the harvested produce at safer place.

Flash Flood Guidance:



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; ARG: Automatic Rain Gauge; dist: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office, Aero: Aerodrome, IAF: Indian Air Force.
- * 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.



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

	LE	<u>GENDS</u>	
1. अंडमान और निकोबार द्वीपस	नमूह		1. Andaman & Nicobar Islands
2. अरुणाचल प्रदेश			2. Arunachal Pradesh
3. असम और मेघालय			3. Assam & Meghalaya
4. नागालैंड, मणिपुर, मिजोरम अ	और त्रिपुरा		4. Nagaland, Manipur, Mizoram & Tripu
5. उप-हिमालयी पश्चिम बंगाल अ	और सिक्किम		5. Sub-Himalayan West Bengal & Sikkim
6. गंगीय पश्चिम बंगाल	men		6. Gangetic West Bengal
7. ओडिशा	Ser and a second		7. Odisha
8. झारखंड	16		8. Jharkhand
9. बिहार	Long Star		9. Bihar
10. पूर्वी उत्तर प्रदेश	15		10. East Uttar Pradesh
11. पश्चिम उत्तर प्रदेश	14 12		11. West Uttar Pradesh
12. उत्तराखंड	13		12. Uttarakhand
13. हरियाणा, चंडीगढ़ और दिल्ल	ell 17 5 5 5	5 Same	13. Haryana, Chandigarh & Delhi
14. पंजाब	× 18	10 3 9	3 کم 14. Punjab
15. हिमाचल प्रदेश	and the former	Struck .	15. Himachal Pradesh
16. जम्मू और कश्मीर और लद्दा	ख 🏷 े 21 रे 19 } 20	5 28561	16. Jammu & Kashmir and Ladakh
17. पश्चिम राजस्थान	22 St for sind		17. West Rajasthan
18. पूर्वी राजस्थान	26 26 J	~	18. East Rajasthan
19. पश्चिम मध्य प्रदेश	23 24 25	Jas	19. West Madhya Pradesh
20. पूर्वी मध्य प्रदेश	29 }		20. East Madhya Pradesh
21. गुजरात	33 2 28		21. Gujarat
22. सौराष्ट्र	32 30		22. Saurashtra
23. कोंकण और गोवा	34 34 34		23. Konkan & Goa
24. मध्य महाराष्ट्र	the series of th		24. Madhya Maharashtra
25. मराठवाड़ा	31 357 31		1 25. Marathwada
26. विदर्भ	36		26. Vidarbha
27. छत्तीसगढ़			27. Chhattisgarh
28. तटीय आंध्र प्रदेश और यनम	ſ		28. Coastal Andhra Pradesh & Yanam
29. तेलंगाना			29. Telangana
30. रायलसीमा			30. Rayalaseema
31. तमिलनाडु, पुडुचेरी और कर	ाईकल		31. Tamilnadu, Puducherry & Karaikal
32. तटीय कर्नाटक			32. Coastal Karnataka
33. आतंरिक उत्तरी कर्नाटक			33. North Interior Karnataka
34. आतंरिक दक्षिणी कर्नाटक			34. South Interior Karnataka
35. केरल और माहे			35. Kerala & Mahe
36. लक्षद्वीप			36. Lakshadweep
SPAT	IAL DISTRIBU	JTION (% «	of Stations reporting)
% Stations	Category	% Stations	Category
	ead (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75 Fairly Wides	pread (FWS/Many Places) 1-25	Isolated (ISOL)
Fog	🚗 Heavy Snow	– Cold Wave	COLOUR CODED WARNING
		•	No Warning (No Action)
	<u>A</u>		
Rain	్రి. Dust Storm	- Cold Day	Watch (Be Aware)
-	الله Dust Storm + Heat Wave	- Cold Day	Alort (Po Proparod To Take Action)
Very Heavy Rain	+ Heat Wave		Alort (Po Proparod To Take Action)
Very Heavy Rain	+ Heat Wave + Warm Night		rost Alert (Be Prepared To Take Action)
Very Heavy Rain	+ Heat Wave		rost Alert (Be Prepared To Take Action) Warning (Take Action) Probabilistic Forecast Terms Probability of Occurrence (%)
Very Heavy Rain	+ Heat Wave + Warm Night		rost Alert (Be Prepared To Take Action) Warning (Take Action) Probabilistic Forecast

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)





National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

*	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 regions (a) Based on Departure from normal
	Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
leat Wave	(b). Based on Actual maximum temperature Heat Wave: When actual maximum temperature ≥45°C.
	Severe Heat Wave: When actual maximum temperature 243 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
	When maximum temperature remains 40°C
/arm 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 $\leq 10^{\circ}$ 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. Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C
Cold Wave	(b) Based on actual Minimum Temperature (for Plains only)
	Cold Wave : When Minimum Temperature is $\leq 4.0 \text{ °C}$
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	(c) For Coastal Stations When Minimum Temperature departure is \leq -4.5 °C & actual Minimum Temperature is \leq 15 °C
0-110-11	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
Fog	Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 50- 200 metres
	Very Dense Fog: when the visibility < 50 metres
nunderstorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
Dust/Sand Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
	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
Squall	Severe: Wind speed 62-87 kmph
	Very Severe: Wind speed >87 kmph
	Effect of various waves in the sea over specific area
Sea State	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)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
	Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) Super Cyclone Strom: Wind speed >220 kmph (>119 knots)

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