

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 31<sup>st</sup> October, 2024 Time of Issue: 1230 hours IST

Subject: (i) Heavy Rainfall likely at isolated places over Tamil Nadu, Kerala and South Interior Karnataka during 31<sup>st</sup> Oct-02<sup>nd</sup> November.

(ii) Above Normal Temperatures likely to continue over Northwest India and parts of Central and Eastern India during next 3-4 days.

(iii) Delhi/NCR likely to experience smog/shallow fog/mist during the night and morning hours from 31<sup>st</sup> Oct-03<sup>rd</sup> November.

# i) Rainfall Forecast and warning over the country Realised rainfall during past 24 hours till 0830 hours IST of today (Annexure I)

Heavy rainfall at isolated places over Tamil Nadu and Sikkim.

## Weather Systems:

- ◆ A cyclonic circulation lies over Gulf of Mannar in lower tropospheric levels.
- An upper air cyclonic circulation lies over southwest Bay of Bengal off south Andhra Pradesh in lower & middle tropospheric levels.
- Another upper air cyclonic circulation lies over northeast Assam in lower tropospheric levels.

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

- ✓ Light to moderate rainfall at a few places accompanied with isolated thunderstorm and lightning very likely over Kerala & Mahe during 31<sup>st</sup> October-04<sup>th</sup> November, Tamil Nadu, Puducherry & Karaikal during 31<sup>st</sup> October-03<sup>rd</sup> November and Karnataka during 31<sup>st</sup> October-02<sup>nd</sup> November; Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana on 31<sup>st</sup> October & 01<sup>st</sup> November, Konkan & Goa, Madhya Maharashtra and Marathwada on 31<sup>st</sup> October & 01<sup>st</sup> November.
- ✓ Isolated heavy to very heavy rainfall also very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe on 01<sup>st</sup> November.
- ✓ Isolated heavy rainfall also very likely over Tamil Nadu, Puducherry & Karaikal during 31<sup>st</sup> October-02<sup>nd</sup> November; Kerala & Mahe during 31<sup>st</sup> October-03<sup>rd</sup> November and South Interior Karnataka on 31<sup>st</sup> October-02<sup>nd</sup> November.

# ii. Temperature conditions and Forecast

# Temperature Conditions during past 24 hours till 0830 hours IST of today

Maximum & Minimum Temperatures were above normal by 3-7°C over Northwest India. Minimum Temperatures were above normal by 3-5°C over parts of Central, Western and Eastern India.

#### **Forecast of temperature**

✓ The above normal Temperature tendency over Northwest India and parts of Central India is likely to continue during next one week.

#### iii. Weather forecast over Delhi/NCR during 31st October to 03rd November 2024

Past Weather: Currently both Maximum and Minimum temperature over Delhi are at the range of  $33-36^{\circ}$ C and  $18-22^{\circ}$ C respectively. These are above normal by  $4 - 6^{\circ}$ C. Mainly clear sky condition with variable wind speed reaching 04 - 10 kmph prevailed during daytime and weak/calm wind speed during night.

#### Weather Forecast:

**31.10.2024**: Mainly clear sky. The predominant surface wind is likely to be from Northwest directions with wind speed 04 - 10 kmph during morning hours. Shallow fog/ mist in the morning. The wind will gradually increase becoming 08 - 15 kmph during afternoon. It will decrease thereafter becoming less than 08 kmph during evening and night. Smog/shallow fog/ mist is likely in the night.

**01.11.2024**: Mainly clear sky. The predominant surface wind is likely to be from Northwest directions with wind speed 04 - 10 kmph during morning hours. Shallow fog/ mist in the morning. The wind speed will gradually increase becoming 10 - 14 kmph during afternoon. It will decrease thereafter becoming less than 05 kmph during evening and night. Smog/shallow fog/ mist is likely in the night.

**02.11.2024**: Mainly clear sky. The predominant surface wind is likely to be upto 04 kmph during morning hours. Shallow fog/ mist in the morning. The predominant surface wind is likely to be from Northeast/East direction with wind speed upto 06 - 08 kmph during afternoon. It will be less than 10 kmph from East/Northeast directions during evening and night. Smog/shallow fog/ mist is likely in the night.

**03.11.2024**: Mainly clear sky. The predominant surface wind is likely to be from Southeast/East direction with wind speed upto 08 kmph during morning hours. Shallow fog/ mist in the morning. The wind speed will gradually decrease becoming upto 06 kmph during afternoon. It will be less than 05 kmph from East directions during evening and night. Smog/shallow fog/ mist is likely in the night.

#### For more details, kindly refer National Weather Bulletin:

https://mausam.imd.gov.in/responsive/all\_india\_forcast\_bulletin.php For District wise warnings refer: <u>https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php</u> For Fishermen warnings, kindly refer:

https://rsmcnewdelhi.imd.gov.in/uploads/archive/51/51\_bdf575\_GRAPHIC.png

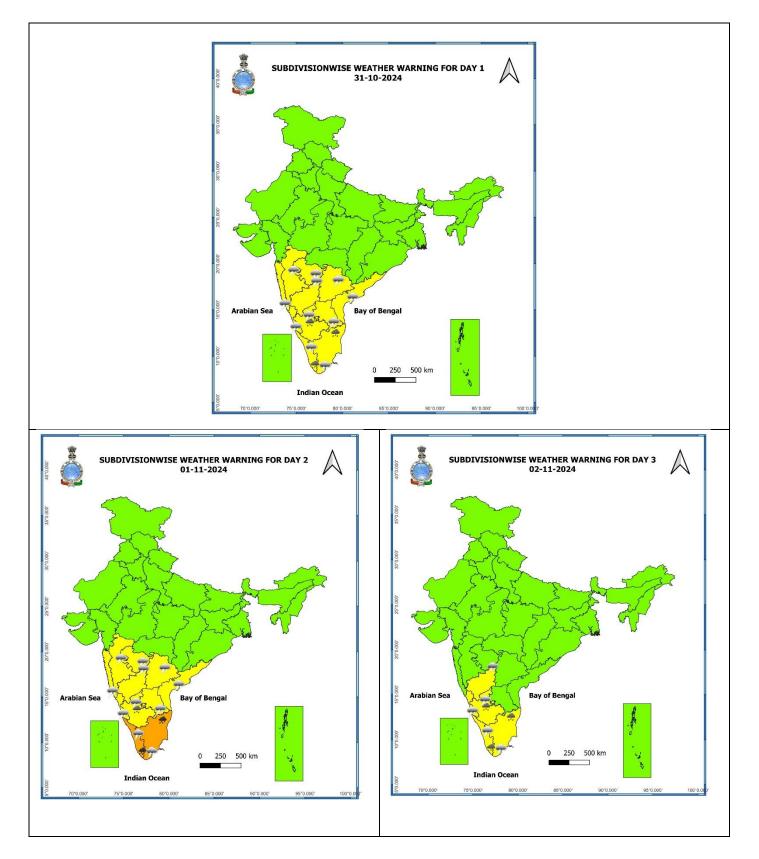
# Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 31.10.2024 (in cm):

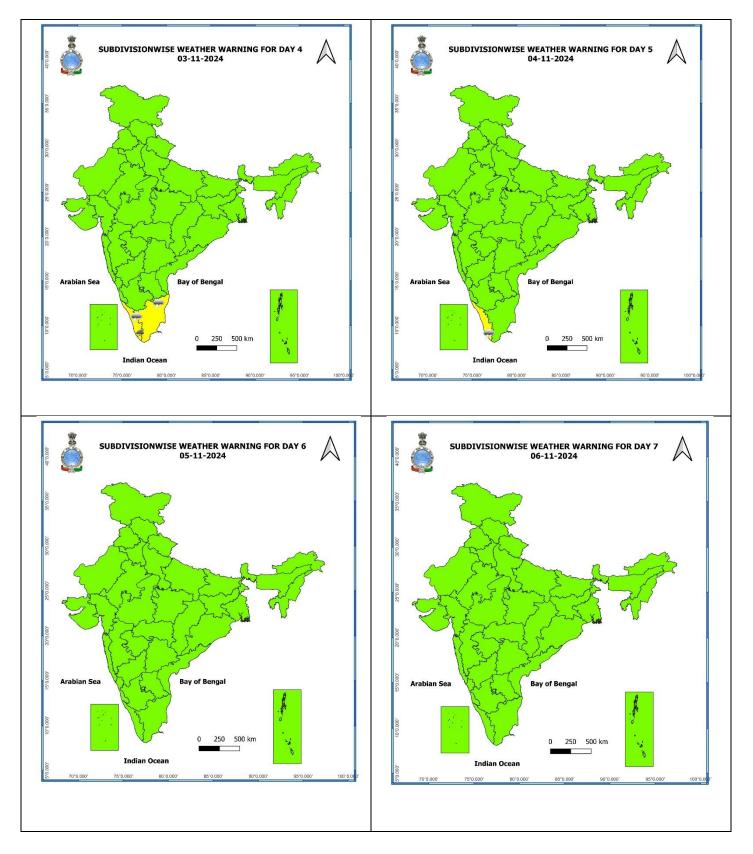
- Tamil Nadu: Zone 08 Malar Colony (dist Chennai) 11; Good Will School Villivakkam ARG (dist Tiruvallur) 10; Ayanavaram Taluk Office (dist Chennai) 9; Zone 06 T.V.K Nagar (dist Chennai), Zone 06 D65 Kolathur (dist Chennai) 7 each;Zone 02 D15 Manali (dist Chennai), Zone 09 Teynampet (dist Chennai), Barur (dist Krishnagiri), Nedungal (dist Krishnagiri) 6 each; Kodambakkam (dist Chennai), Anna Nagar (dist Chennai), Chennai(N) AWS (dist Chennai), Vadapudupattu (dist Tirupathur), Chennai (N) (dist Chennai), Ambattur MW (dist Chennai) 5 each; Ammapettai (dist Erode), YMCA Nandnam ARG (dist Chennai), Bhavani (dist Erode), Kattumayilur (dist Cuddalore), Anna University (dist Chennai), Zone 02 Manali (dist Chennai), Zone 10 Kodambakkam (dist Chennai) 4 each; Vepur (dist Cuddalore), Sairam Institution ARG (dist Chengalpattu), Tallakulam (dist Madurai), Manali (dist Chennai), Vaniyambadi (dist Tirupathur), MGR Nagar (dist Chennai), Madurai North (dist Madurai), ACS Medical College ARG (dist Kancheepuram), Perambur (dist Chennai), Anna University ARG (dist Chennai), BASL Manalurpet (dist Kallakurichi) 3 each;
- Sub-Himalayan West Bengal & Sikkim: Gangtok (dist Gangtok) 7, Neora (dist Jalpaiguri) 4, Sevoke (dist Darjeeling) 3, Nagarkata (dist Jalpaiguri) 3, Tadong (dist Gangtok) 3;
- Telangana: Khanapur (dist Warangal) 6, Nalgonda (dist Nalgonda) 5, Vicarabad (dist Vikarabad) 4, Malyal (dist Mahabubabad) 4, Pochampalle (dist Y. Bhuvanagiri) 4, Narmetta (dist Jangaon) 3, Ghanpurjskb (dist J. Bhupalpally) 3, Khammam Urban (dist Khammam) 3, Mutharam Mahadevpur (dist J. Bhupalpally) 3, Khammam(arg) (dist Khammam) 3, Sangem (dist Warangal) 3, Pargi (dist Vikarabad) 3, Ramannapeta (dist Y. Bhuvanagiri) 3, Jainoor (dist Kumaram Bheem) 3;
- Assam & Meghalaya: Srijangram Arg (dist Bongaigaon) 6, Amraghat (dist Cachar) 5, Majuli (dist Jorhat) 5, Dholai (dist Cachar) 3, Matijuri (dist Hailakandi) 3, Silchar (dist Cachar) 3, Lala Arg (dist Hailakandi) 3;
- Arunachal Pradesh: Bameng Circle Aws (dist East Kameng) 5, Anini\_aws (dist Dibang Valley)
   3, Itanagar (dist Papumpara) 3;
- Chhattisgarh: Bijapur (dist Bijapur) 5, Sukma (dist Sukma) 4, Jagargunda (dist Sukma) 3;
- South Interior Karnataka: Harapanahalli (dist Vijayanagara) 5, Tarikere (dist Chikkamagaluru) 3;
- Konkan & Goa: Rajapur (dist Ratnagiri) 5, Kankavli (dist Sindhudurg) 3, Valpoi (dist North Goa) 3;
- Gangetic West Bengal: Rajnagar (dist Birbhum) 5;
- North Interior Karnataka: Haveri Pto (dist Haveri) 4, Dharwad (hos) (dist Dharwad) 3;
- Coastal Andhra Pradesh: Tiruvuru (dist Ntr District) 3;
- Rayalaseema: Raju Palem (dist Ysr District) 3;
- Jharkhand: Narayanpur (dist Jamtara) 3;
- Nagaland, Manipur, Mizoram & Tripura: Kolasib Agri (dist Kolasib) 3, Kolasib\_aws (dist Kolasib) 3.

	7 Days Rainfall Forecast									
S. No.	Subdivision	31-Oct	01-Nov	02-Nov	03-Nov	04-Nov	05-Nov	06-Nov		
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7		
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	SCT	FWS	FWS	FWS	FWS		
2	ARUNACHAL PRADESH	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL		
3	ASSAM & MEGHALAYA	FWS	SCT	ISOL	ISOL	ISOL	ISOL	SCT		
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	ISOL	ISOL	ISOL	ISOL	FWS	FWS		
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL		
6	GANGETIC WEST BENGAL	ISOL	ISOL	DRY	DRY	DRY	ISOL	ISOL		
7	ODISHA	ISOL	ISOL	ISOL	DRY	DRY	DRY	ISOL		
8	JHARKHAND	DRY								
9	BIHAR	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY		
10	EAST UTTAR PRADESH	DRY								
11	WEST UTTAR PRADESH	DRY								
12	UTTARAKHAND	DRY								
13	HARYANA CHANDIGARH & DELHI	DRY								
14	PUNJAB	DRY								
15	HIMACHAL PRADESH	DRY								
16	JAMMU & KASHMIR AND LADAKH	DRY								
17	WEST RAJASTHAN	DRY								
18	EAST RAJASTHAN	DRY								
19	WEST MADHYA PRADESH	DRY								
20	EAST MADHYA PRADESH	DRY								
21	GUJARAT REGION	DRY								
22	SAURASHTRA & KUTCH	DRY								
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY		
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY		
25	MARATHAWADA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY		
26	VIDARBHA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY		
27	CHHATTISGARH	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY		
28	COASTAL ANDHRA PRADESH & YANAM	ISOL								
29	TELANGANA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL		
30	RAYALASEEMA	ISOL								
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	FWS	FWS	SCT	SCT	ISOL	ISOL		
32	COASTAL KARNATAKA	FWS	SCT	SCT	SCT	ISOL	ISOL	DRY		
33	NORTH INTERIOR KARNATAKA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	DRY		
34	SOUTH INTERIOR KARNATAKA	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL		
35	KERALA & MAHE	FWS	FWS	FWS	FWS	FWS	SCT	SCT		
36	LAKSHADWEEP	DRY	SCT	SCT	FWS	FWS	SCT	SCT		

• As the lead period increases forecast accuracy decreases.

#### **ANNEXURE III**





- 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 heavy to very heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe on 01<sup>st</sup> November.

# **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 and roadways 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 and wind.
- ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

## **Action Suggested**

- ✓ 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 Tamil Nadu, Kerala and South Interior Karnataka of the country

- Drain out excess water from the standing crops in Tamil Nadu, Kerala and South Interior Karnataka.
- ➢ Keep the harvested produce at safer places.
- > Provide mechanical support to horticultural crops and staking to vegetables.

## 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.
  - South India: Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

		<u>FENDS</u>	
1. अंडमान और निकोबार द्वीप	ासमूह		1. Andaman & Nicobar Islands
2. अरुणाचल प्रदेश 3. असम और मेघालय			2. Arunachal Pradesh
. असम आर मयालय 4. नागालैंड, मणिपुर, मिजोरम	और निमय		3. Assam & Meghalaya
4. नागालड, माणपुर, मिजारम 5. उप-हिमालयी पश्चिम बंगाल	आर ।त्रपुर। और गिलिस्म		4. Nagaland, Manipur, Mizoram & Tripur
6. गंगीय पश्चिम बंगाल	जारासायकम		5. Sub-Himalayan West Bengal & Sikkim 6. Gangetic West Bengal
र. ओडिशा	and and		7. Odisha
8. झारखंड			8. Jharkhand
9. बिहार	<b>16</b>		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 दि	eef 17 5 m 11	ma E	13. Haryana, Chandigarh & Delhi
14. पंजाब		Sa fa	<b>3</b> 14. Punjab
15. हिमाचल प्रदेश	the per of german	man R	15. Himachal Pradesh
16. जम्मू और कश्मीर और लह		<b>1 8 ~ 6</b> {	16. Jammu & Kashmir and Ladakh
17. पश्चिम राजस्थान	22 The share	from the	17. West Rajasthan
18. पूर्वी राजस्थान	26 27	7 >	18. East Rajasthan
19. पश्चिम मध्य प्रदेश	25 25		19. West Madhya Pradesh
20. पूर्वी मध्य प्रदेश	23 24 29 29	M	20. East Madhya Pradesh
21. गुजरात	5 33 2 28	5	21. Gujarat
22. सौराष्ट्र	32 30		22. Saurashtra
23. कोंकण और गोवा	32 34		23. Konkan & Goa
24. मध्य महाराष्ट्र	Roman Company		24. Madhya Maharashtra
25. मराठवाड़ा	35, 31		<b>1</b> 25. Marathwada
26. विदर्भ	36		26. Vidarbha
27. छत्तीसगढ़	•		27. Chhattisgarh
28. तटीय आंध्र प्रदेश और यन	म		28. Coastal Andhra Pradesh & Yanam
29. तेलंगाना			29. Telangana
30. रायलसीमा			30. Rayalaseema
31. तमिलनाडु, पुडुचेरी और व	नराईकल		31. Tamilnadu, Puducherry & Karaikal
32. तटीय कर्नाटक			32. Coastal Karnataka
33. आतंरिक उत्तरी कर्नाटक			33. North Interior Karnataka
34. आतंरिक दक्षिणी कर्नाटक	1		34. South Interior Karnataka
35. केरल और माहे			35. Kerala & Mahe
36. लक्षद्वीप			36. Lakshadweep
SPA	<b>FIAL DISTRIBU</b>	TION (%	of Stations reporting)
% Stations	Category	% Stations	Category
	read (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75 Fairly Wide			
51-75 Fairly wide	spread (FWS/Many Places)	1-25	isolated (ISOL)
	spread (FWS/Many Places)	1-25 	Isolated (ISOL)
Fog	Heavy Snow	– Cold Way	Isolated (ISOL) Ve COLOUR CODED WARNING No Warning (No Action)
Fog			Isolated (ISOL) Ve COLOUR CODED WARNING No Warning (No Action)
Fog Heavy Rain	Heavy Snow	– Cold Way	Isolated (ISOL)         ve       COLOUR CODED WARNING         No Warning (No Action)         Watch (Be Aware)         Frost       Alert (Be Prepared To Take Action)
Fog Heavy Rain Very Heavy Rain	الله Heavy Snow في Dust Storm	- Cold Way	Isolated (ISOL)         ve       COLOUR CODED WARNING         No Warning (No Action)         Watch (Be Aware)         Alort (Be Brangred To Take Action)
Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain	Heavy Snow Dust Storm + Heat Wave	- Cold Way	Isolated (ISOL)         ve       COLOUR CODED WARNING         No Warning (No Action)         Watch (Be Aware)         Alert (Be Prepared To Take Action)         Warning (Take Action)         Probabilistic Forecast
Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain Thunder & Lightning	Heavy Snow Dust Storm + Heat Wave + Warm Night + Hot Day	- Cold Way	Isolated (ISOL)         Ve       COLOUR CODED WARNING         No Warning (No Action)         Watch (Be Aware)         Alert (Be Prepared To Take Action)         Warning (Take Action)         Probabilistic Forecast         Terms       Probability of Occurrence (%)         Unlikely       < 25
Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain	Heavy Snow Dust Storm + Heat Wave + Warm Night	- Cold Way	Isolated (ISOL)         ve       COLOUR CODED WARNING         No Warning (No Action)         Watch (Be Aware)         Alert (Be Prepared To Take Action)         Warning (Take Action)         Probabilistic Forecast         Terms       Probability of Occurrence (%)

\* 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)





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*	Heavy: 64.5 to 115.5 tm //cm *
ain/ 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 ≥45 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.
Cold Wave	Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C
	(b) Based on actual Minimum Temperature (for Plains only) 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 °C & actual Minimum Temperature is ≤ 15 °C
	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
	Moderate Fog: When the visibility between 500-200 metres
Fog	Dense Fog: when the visibility between 50- 200 metres
	Very Dense Fog: when the visibility < 50 metres
understorm	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 Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
Sea State	High 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)
	Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) Super Cyclone Strom: Wind speed >220 kmph (>119 knots)

For a colour warning uses not mean ked Alert, ked colour warning means "Take Action". For cast 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)