

Monday, May 12, 2025  
Time of Issue: 0800 hours IST  
(MORNING)

**All India Impact Based Weather Warning Bulletin**

Weather Warnings for next 7 days is given below:

(Graphics for warnings & rainfall distribution (Table 1) are given below the text:

**12<sup>th</sup> May (Day 1)**

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Coastal Karnataka, Lakshadweep and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over East Madhya Pradesh, Gujarat, Himachal Pradesh, Interior Karnataka, Jharkhand, Tamilnadu & Puducherry and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Chhattisgarh, East Rajasthan, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Jammu and Kashmir and Ladakh, Kerala and Mahe, Madhya Maharashtra, Marathwada, Punjab, Telangana and West Madhya Pradesh.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Heat Wave condition** very likely at isolated places over Bihar and West Bengal & Sikkim.
- ❖ **Hot and Humid** weather very likely at isolated places over Jharkhand, Kerala and Mahe and Tamilnadu & Puducherry.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia Coast, over Gulf of Mannar and adjoining Comorin area.

**13<sup>th</sup> May (Day 2)**

- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Assam & Meghalaya.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Arunachal Pradesh.
- ❖ **Heavy Rain** very likely at isolated places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram and Tripura, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Tamilnadu & Puducherry.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Coastal Karnataka and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, East Madhya Pradesh, Interior Karnataka, Marathwada and Tamilnadu & Puducherry.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Chhattisgarh, Kerala and Mahe, Konkan & Goa, Madhya Maharashtra, Rayalaseema, Telangana, West Bengal & Sikkim and West Madhya Pradesh.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Assam & Meghalaya and Coastal Andhra Pradesh.
- ❖ **Heat Wave condition** very likely at isolated places over Bihar, Jharkhand, Odisha and West Bengal & Sikkim.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia coast, over Gulf of Mannar and adjoining Comorin area.

### 14<sup>th</sup> May (Day 3)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Heavy Rain** likely at isolated places over Andaman & Nicobar Islands, Interior Karnataka, Nagaland, Manipur, Mizoram and Tripura, Rayalaseema, Sub Himalayan West Bengal & Sikkim and Tamilnadu & Puducherry.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Costal Karnataka and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands, Interior Karnataka and Tamilnadu & Puducherry.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Assam & Meghalaya, Kerala and Mahe, Madhya Maharashtra, Rayalaseema and West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Chhattisgarh, Coastal Andhra Pradesh and Telangana.
- ❖ **Heat Wave condition** likely at isolated places over Bihar, East Uttar Pradesh, Jharkhand, Odisha and West Bengal & Sikkim.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia coast, over Gulf of Mannar and adjoining Comorin area.

### 15<sup>th</sup> May (Day 4)

- ❖ **Heavy Rain** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Rayalaseema, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Tamilnadu & Puducherry.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Costal Karnataka and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands, Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Tamilnadu & Puducherry.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Bihar, Gangetic West Bengal, Jharkhand, Kerala and Mahe and Madhya Maharashtra.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Chhattisgarh and Telangana.
- ❖ **Heat Wave condition** likely at isolated places over Odisha and Uttar Pradesh.

**Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia coast, over Gulf of Mannar and adjoining Comorin area.

#### 16<sup>th</sup> May (Day 5)

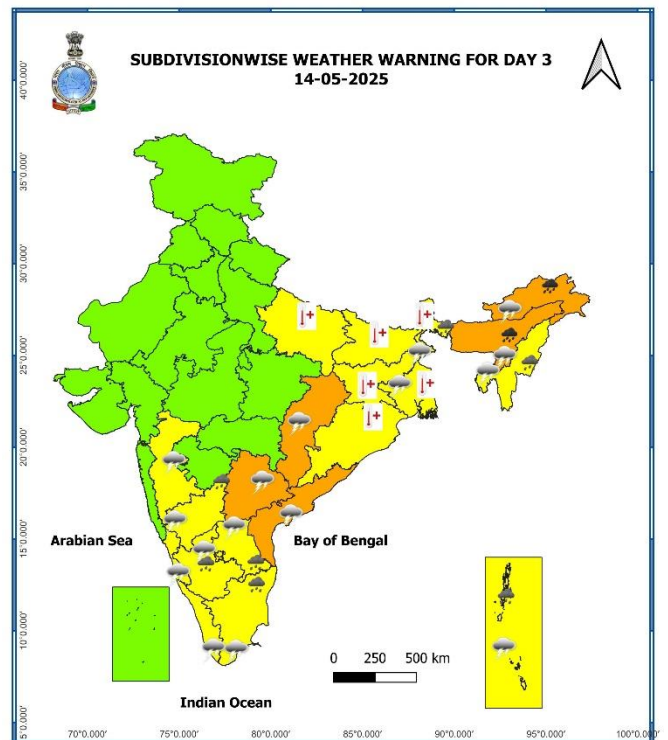
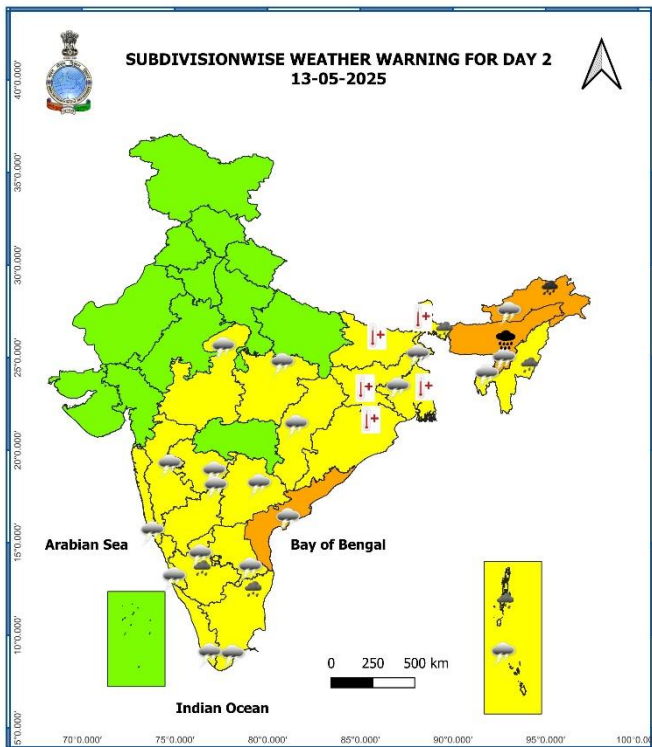
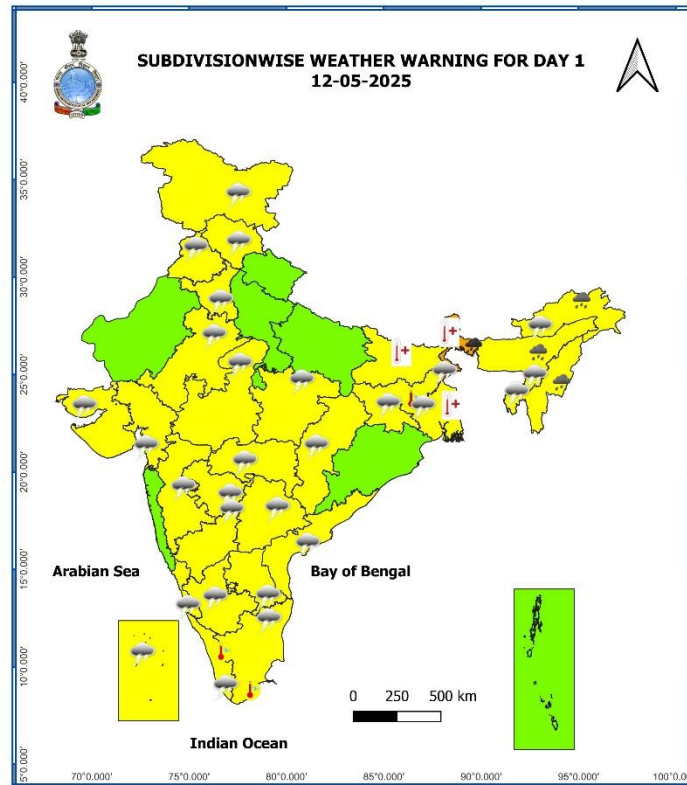
- ❖ **Heavy Rainfall** likely at isolated places over Rayalaseema.
- ❖ **Heat Wave condition** likely at isolated places over Uttar Pradesh.

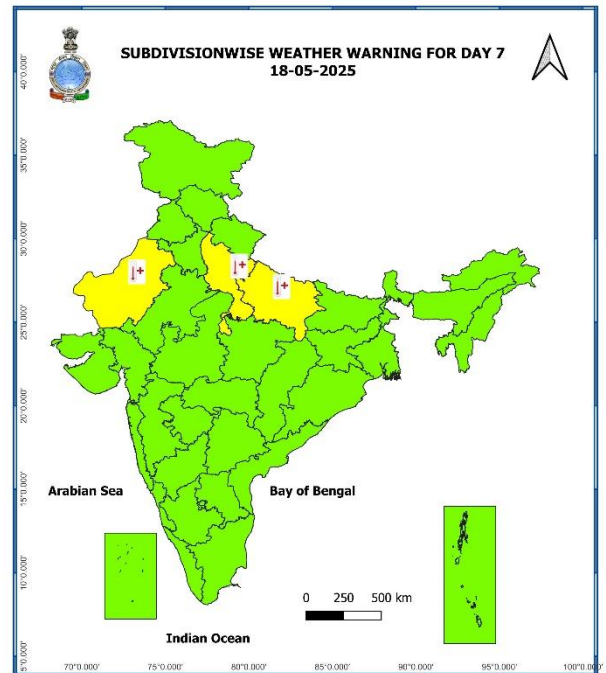
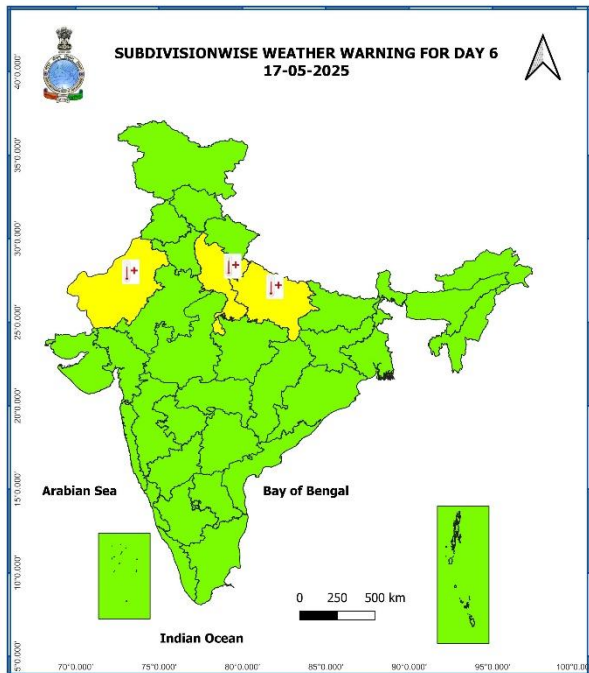
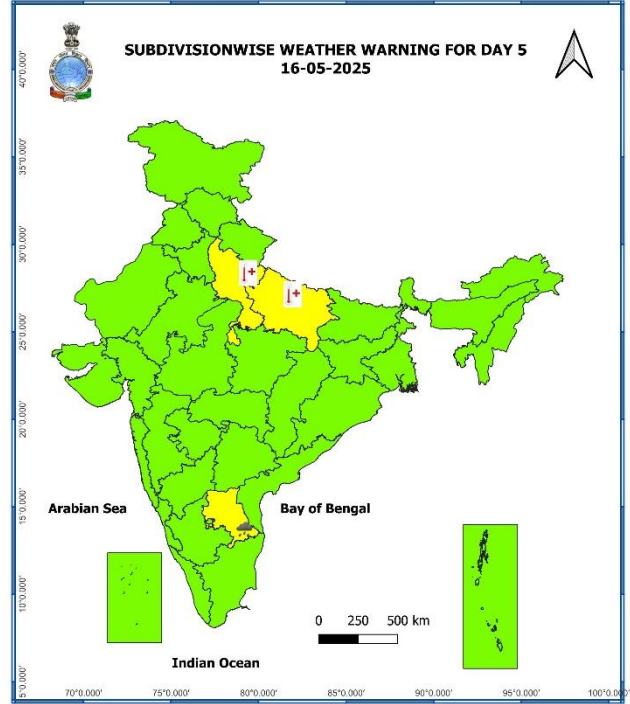
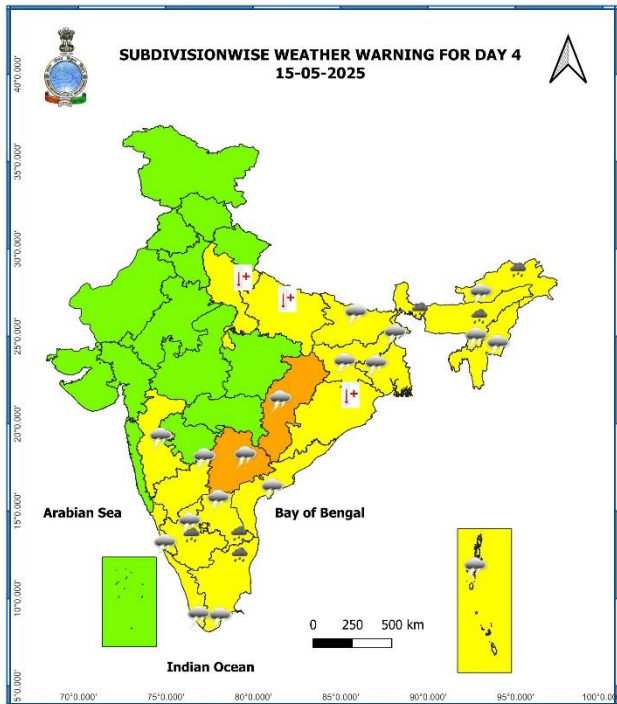
#### 17<sup>th</sup> May (Day 6)

- ❖ **Heat Wave condition** likely at isolated places over Uttar Pradesh and west Rajasthan.

#### 18<sup>th</sup> May (Day 7)

- ❖ **Heat Wave condition** likely at isolated places over Uttar Pradesh and west Rajasthan.





- 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.



Table-1

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

• As the lead period increases forecast accuracy decreases.

### Impact & Action Suggested due to heavy to very heavy rainfall over

- ✓ **Extremely heavy rainfall** at isolated places over Meghalaya on 13th May.
- ❖ **Isolated heavy rainfall** over Arunachal Pradesh, Assam & Meghalaya during 12<sup>th</sup>-15<sup>th</sup> and over Nagaland, Manipur, Mizoram & Tripura during 12<sup>th</sup>-14<sup>th</sup> with isolated **very heavy rainfall** over Arunachal Pradesh, Assam & Meghalaya on 13<sup>th</sup>-14<sup>th</sup> May and **Isolated heavy rainfall** likely over Nicobar on 13<sup>th</sup> & 14<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim during 12<sup>th</sup>-15<sup>th</sup> with **isolated very heavy rainfall** on Sub-Himalayan West Bengal & Sikkim on 12<sup>th</sup> May.

#### 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).

#### 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 expected and action suggested due to isolated thunderstorm with lightning/gusty & Squally winds & Hailstorm over

- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** Sub-Himalayan West Bengal & Sikkim on 12<sup>th</sup>; Chhattisgarh, Telangana on 14<sup>th</sup> & 15<sup>th</sup> May. Coastal Andhra Pradesh & Yanam on 13<sup>th</sup> & 14<sup>th</sup> May.

#### Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- 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:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- 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.

**Impact expected and action suggested due to Heat wave conditions over** Sub-Himalayan West Bengal, Bihar during 12<sup>th</sup>-14<sup>th</sup>; Gangetic West Bengal during 12<sup>th</sup>-15<sup>th</sup>; Jharkhand on 13<sup>th</sup> & 14<sup>th</sup>; north coastal Odisha during 13<sup>th</sup>-15<sup>th</sup>; West Uttar Pradesh during 15<sup>th</sup>-17<sup>th</sup>; East Uttar Pradesh during 14<sup>th</sup>-17<sup>th</sup> and West Rajasthan on 17<sup>th</sup> May.

#### 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.

#### Agromet advisories for likely impact of Heavy Rainfall / Gusty Winds / Heat Wave

- In **Tamil Nadu, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim** and **North Eastern States**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Meghalaya**, use hail nets and hail caps to prevent mechanical damage in vegetables and orchards due to the possibility of hailstorms.
- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.
- To protect standing crops, vegetables and orchards from the adverse effects of heat waves and high temperatures, apply light and frequent irrigation in the evening.

#### Livestock / Poultry / Fishery

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also, provide clean, hygienic and plenty of drinking water to animals.



## DEFINITION/CRITERIA

<b>Rain/ Snow *</b>	<b>Heavy:</b> 64.5 to 115.5 mm/cm * <b>Very Heavy:</b> 115.6 to 204.4 mm/cm* <b>Extremely Heavy:</b> > 204.4 mm/cm *
<b>Heat Wave</b>	<p><b>When maximum temperature of a station reaches <math>\geq 40^{\circ}\text{C}</math> for plains and <math>\geq 30^{\circ}\text{C}</math> for hilly regions</b></p> <p><b>(a) Based on Departure from normal</b></p> <p><b>Heat Wave:</b> Maximum Temperature Departure from normal <math>4.5^{\circ}\text{C}</math> to <math>6.4^{\circ}\text{C}</math>.  <b>Severe Heat Wave:</b> Maximum Temperature Departure from normal <math>\geq 6.5^{\circ}\text{C}</math></p> <p><b>(b). Based on Actual maximum temperature</b></p> <p><b>Heat Wave:</b> When actual maximum temperature <math>\geq 45^{\circ}\text{C}</math>.  <b>Severe Heat Wave:</b> When actual maximum temperature <math>\geq 47^{\circ}\text{C}</math></p> <p><b>(c). Criteria for heat wave for coastal stations</b>            When maximum temperature departure is <math>&gt; 4.5^{\circ}\text{C}</math> from normal. Heat Wave may be described provided maximum temperature <math>\geq 37^{\circ}\text{C}</math></p>
<b>Warm Night</b>	<p><b>When maximum temperature remains <math>40^{\circ}\text{C}</math></b></p> <p><b>Warm Night:</b> When minimum temperature departure <math>4.5^{\circ}\text{C}</math> to <math>6.4^{\circ}\text{C}</math>.  <b>Severe Warm Night:</b> When minimum temperature departure <math>&gt; 6.4^{\circ}\text{C}</math>.</p>
<b>Cold Wave</b>	<p><b>When minimum temperature of a station <math>\leq 10^{\circ}\text{C}</math> for plains and <math>\leq 0^{\circ}\text{C}</math> for hilly regions.</b></p> <p><b>(a). Based on departure</b></p> <p><b>Cold Wave:</b> Minimum Temperature Departure from normal <math>-4.5^{\circ}\text{C}</math> to <math>-6.4^{\circ}\text{C}</math>.  <b>Severe Cold Wave:</b> Minimum Temperature Departure from normal <math>\leq -6.5^{\circ}\text{C}</math></p> <p><b>(b) Based on actual Minimum Temperature (for Plains only)</b></p> <p><b>Cold Wave :</b> When Minimum Temperature is <math>\leq 4.0^{\circ}\text{C}</math>  <b>Severe Cold Wave:</b> When Minimum Temperature is <math>\leq 2.0^{\circ}\text{C}</math></p> <p><b>(c) For Coastal Stations</b>            When Minimum Temperature departure is <math>\leq -4.5^{\circ}\text{C}</math> &amp; actual Minimum Temperature is <math>\leq 15^{\circ}\text{C}</math></p>
<b>Cold Day</b>	<p><b>When minimum temperature of a station <math>\leq 10^{\circ}\text{C}</math> for plains and <math>\leq 0^{\circ}\text{C}</math> for hilly regions</b></p> <p><b>Based on departure</b></p> <p><b>Cold Day:</b> Maximum Temperature Departure from normal <math>-4.5^{\circ}\text{C}</math> to <math>-6.4^{\circ}\text{C}</math>.  <b>Severe Cold Day:</b> Maximum Temperature Departure from normal <math>\leq -6.5^{\circ}\text{C}</math></p>
<b>Fog</b>	<p><b>Phenomenon of small droplets suspended in air and the horizontal visibility <math>&lt; 1\text{km}</math></b></p> <p><b>Moderate Fog:</b> When the visibility between 500-200 metres  <b>Dense Fog:</b> when the visibility between 50- 200 metres  <b>Very Dense Fog:</b> when the visibility <math>&lt; 50</math> metres</p>
<b>Thunderstorm</b>	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
<b>Dust/Sand Storm</b>	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
<b>Frost</b>	<p><b>Ice deposits on ground</b></p> <p>Air temperature <math>\leq 4^{\circ}\text{C}</math> ( over Plains)</p>
<b>Squall</b>	<p><b>A strong wind that rises suddenly, lasts for atleast 1 minute.</b></p> <p><b>Moderate:</b> Wind speed 52-61 kmph  <b>Severe:</b> Wind speed 62-87 kmph  <b>Very Severe:</b> Wind speed <math>&gt; 87</math> kmph</p>
<b>Sea State</b>	<p><b>Effect of various waves in the sea over specific area</b></p> <p><b>Rough to very rough:</b> Wind speed 41-62 kmph (22-33 knots) &amp; Wave height 2.5-6 metre  <b>High to very high:</b> Wind speed 63-117 kmph ( 34-63 knots) &amp; Wave height 6-14 metre  <b>Phenomenal:</b> Wind speed <math>&gt; 117</math> kmph (<math>&gt; 63</math> knots) &amp; Wave height <math>&gt; 14</math> metre</p>
<b>Cyclone</b>	<p><b>Cyclonic Storm:</b> Wind speed 62-87 kmph (34-47 knots)  <b>Severe Cyclonic Storm:</b> Wind speed 88-117 kmph (48-63 knots)  <b>Very Severe Cyclonic Storm:</b> Wind speed 118-165 kmph (64 - 89 knots)  <b>Extremely Severe Cyclonic Storm:</b> Wind speed 166-220 kmph (90 -119 knots)  <b>Super Cyclone Strom:</b> Wind speed <math>&gt; 220</math> kmph (<math>&gt; 119</math> knots)</p>

\* 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)

**Hot and Humid:** When maximum temperatures remains  $3^{\circ}\text{C}$  above normal along with the above normal relative humidity.