



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release  
Date: 13<sup>th</sup> October 2026  
Time of Issue: 1320 hours IST

**Subject: (i) Conditions are becoming favourable for further withdrawal of Southwest Monsoon from remaining parts of the country and simultaneous commencement of northeast monsoon rains over south peninsula during next 2 days.**

**(ii) With the onset of the Northeast Monsoon, a wet spell with isolated heavy falls is likely over many parts of south peninsular India during 14<sup>th</sup> to 19<sup>th</sup> October.**

**Realised weather during past 24 hours ending at 0830 hours IST of today, the 13<sup>th</sup> October, 2026:**

- ❖ Heavy rainfall (7-11 cm) has been recorded over Tamil Nadu.
- ❖ Hailstorm has occurred at isolated places over East Rajasthan.

**Withdrawal of southwest Monsoon (Annexure I):**

- ❖ The line of withdrawal of Southwest Monsoon continues to pass through 27.0°N/90.5°E, Dhubri, Kolkata, Angul, Khammam, Honavar and 14.0°N/73.0°E.

**Weather Systems, Forecast and Warnings (Annexure II & III):**

- ❖ An **upper air cyclonic circulation** lies over southwest Bay of Bengal off south Sri Lanka coast in lower tropospheric levels.
- ❖ A **trough** in easterlies runs from the above **cyclonic circulation** over Southwest Bay of Bengal off south Sri Lanka to central Bay of Bengal in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over south Andaman Sea & neighbourhood merged with the above trough.
- ❖ A fresh **Western Disturbance** as a **cyclonic circulation** lies over North Pakistan & adjoining Jammu in lower tropospheric level.
- ❖ The **Western Disturbance** as a **cyclonic circulation** lies over Northwest Uttar Pradesh in lower & middle tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over East Rajasthan & neighbourhood in lower tropospheric level.

**Under the influence of above systems, the following weather is likely:**

**Northwest India:**

- ❖ **Fairly Widespread to Widespread** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 13th-15th October; Himachal Pradesh on 15th October.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Haryana Chandigarh & Delhi and Punjab during 14th-15th October.
- ❖ **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 16th October; Himachal Pradesh during 13th-14th October and during 16th-17th October; Uttarakhand during 13th-19th October.
- ❖ **Isolated to Scattered** rainfall likely over Haryana Chandigarh & Delhi and Punjab on 13th October; East Rajasthan and West Uttar Pradesh during 14th-16th October; East Uttar Pradesh on 16th October; West Rajasthan during 13th-15th October.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 13th-15th October, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Uttarakhand on 15th October.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Punjab during 13th-15th October; Haryana Chandigarh & Delhi during 14th-15th October, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Haryana Chandigarh & Delhi on 13th October; West Uttar Pradesh on 15th October; West Rajasthan during 14th-15th October; East Rajasthan during 14th-16th October.
- ❖ Isolated **thunderstorm & lightning** likely over Himachal Pradesh during 13th-15th October.

- ❖ Isolated **heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 13th-14th October.
- ❖ Isolated **Hailstorm** activity likely over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 13th-14th October; East Rajasthan and Uttarakhand on 15th October; Haryana Chandigarh & Delhi and Punjab during 14th-15th October; West Rajasthan on 14th October.

#### Central India:

- ❖ **Isolated to Scattered** rainfall likely over West Madhya Pradesh during 15th-16th October; East Madhya Pradesh during 15th-19th October; Vidarbha during 16th-19th October; Chhattisgarh during 13th-19th October.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over West Madhya Pradesh during 15th-16th October; East Madhya Pradesh and Vidarbha during 16th-17th October.

#### East India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 13th-14th October.
- ❖ **Isolated to Scattered** rainfall likely over Andaman & Nicobar Islands during 15th-19th October; Bihar and Sub-Himalayan West Bengal & Sikkim during 16th-18th October; Gangetic West Bengal during 14th-18th October; Odisha during 13th-19th October.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Andaman & Nicobar Islands on 13th October; Odisha during 14th-17th October.
- ❖ Isolated **heavy rainfall** likely over Andaman & Nicobar Islands on 13th October.

#### Northeast India:

- ❖ **Isolated to Scattered** rainfall likely over Arunachal Pradesh during 14th-17th October; Assam & Meghalaya during 13th-17th October; Nagaland, Manipur, Mizoram & Tripura during 13th-16th October.
- ❖ Isolated **thunderstorm & lightning** likely over Nagaland, Manipur, Mizoram & Tripura on 13th October.

#### West India:

- ❖ **Isolated to Scattered** rainfall likely over Konkan & Goa during 15th-19th October; Madhya Maharashtra during 14th-19th October; Marathwada during 16th-19th October.
- ❖ Isolated **thunderstorm & lightning** likely over Konkan & Goa and Marathwada during 16th-19th October; Madhya Maharashtra during 15th-19th October.

#### South Peninsular India:

- ❖ **Isolated to Scattered** rainfall likely over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal during 13th-14th October; Lakshadweep during 13th-15th October; Coastal Karnataka on 15th October and on 19th October; North Interior Karnataka during 15th-16th October and on 19th October; South Interior Karnataka during 13th-14th October and on 19th October; Coastal Andhra Pradesh & Yanam during 13th-16th October; Rayalaseema during 13th-15th October and during 18th-19th October; Telangana during 15th-17th October.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal during 15th-19th October; Lakshadweep during 16th-19th October; Coastal Karnataka during 16th-18th October; North Interior Karnataka during 17th-18th October; South Interior Karnataka during 15th-18th October; Coastal Andhra Pradesh & Yanam during 17th-19th October; Rayalaseema during 16th-17th October; Telangana during 18th-19th October.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Rayalaseema and Tamil Nadu, Puducherry & Karaikal during 15th-17th October; North Interior Karnataka during 16th-18th October, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over South Interior Karnataka during 15th-17th October; Coastal Andhra Pradesh & Yanam and Rayalaseema during 13th-14th October; Telangana during 15th-19th October.
- ❖ Isolated **thunderstorm & lightning** likely over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal during 13th-14th October; Coastal Karnataka during 15th-17th October; North Interior Karnataka on 15th October and on 19th October; South Interior Karnataka on 14th October.
- ❖ Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal during 14th-19th October; Kerala & Mahe during 15th-19th October; Coastal Karnataka, North Interior Karnataka and Rayalaseema during 16th-18th October; Coastal Andhra Pradesh & Yanam and South Interior Karnataka during 15th-18th October; Telangana on 17th October.
- ❖ Strong Surface Winds likely over Coastal Andhra Pradesh & Yanam and Rayalaseema during 13th-17th October.

#### Heat Wave, Hot & Humid weather and Warm Night conditions warning:

- ❖ **Hot and humid** weather conditions likely to prevail over Konkan & Goa during 13th-15th October; Coastal Karnataka during 13th-14th October.

### Weather conditions and forecast over Delhi/NCR during next 4 days (Annexure IV)

For more details, kindly refer National Weather Bulletin:

[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

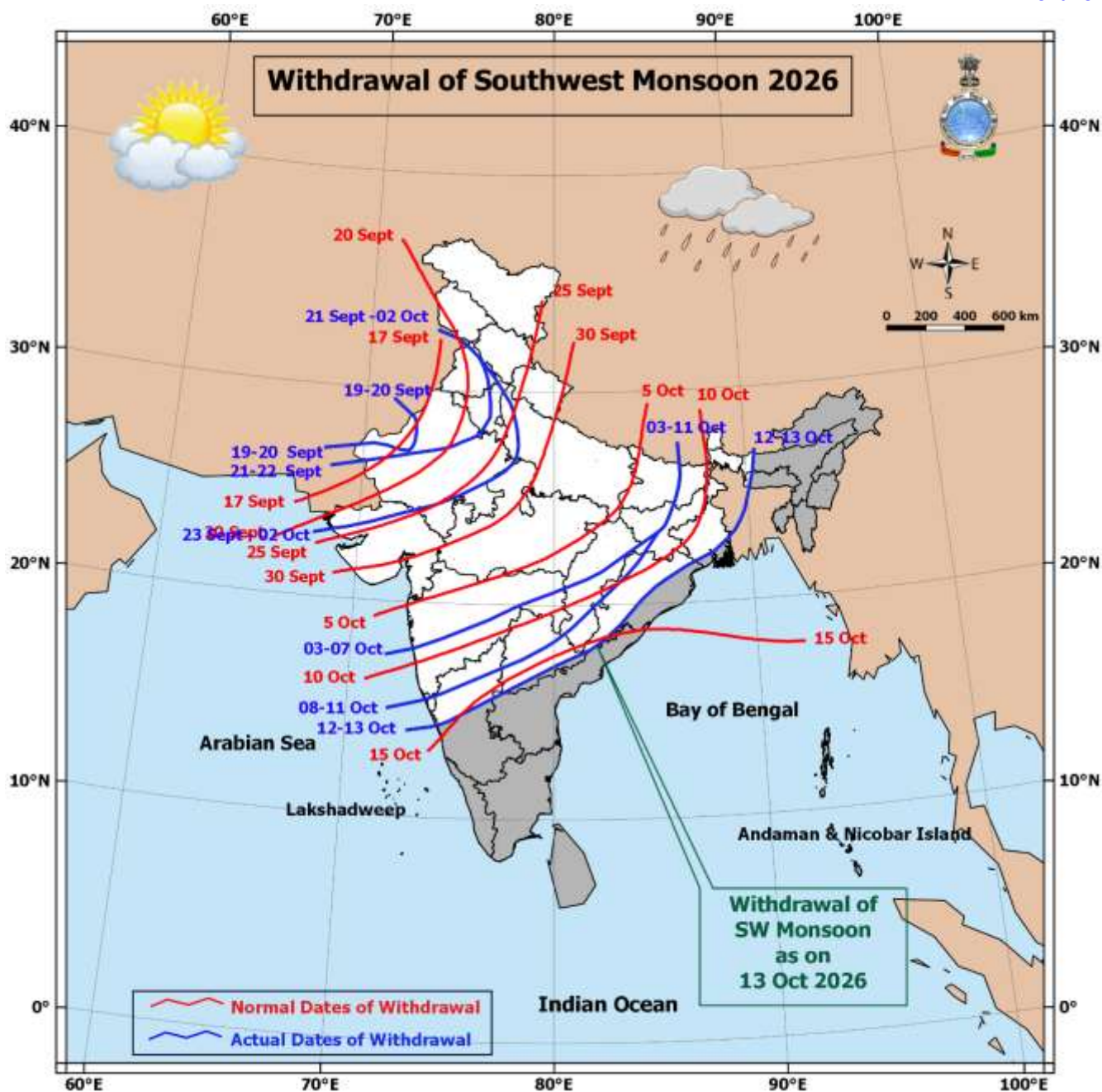
For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermenwarning.php>

Highest rainfall recorded ( $\geq 4$  cm) (from 0830 hours IST of yesterday to 0830 hours IST of today over different Meteorological Subdivision):

❖ Tamil Nadu: Tirunelveli 8

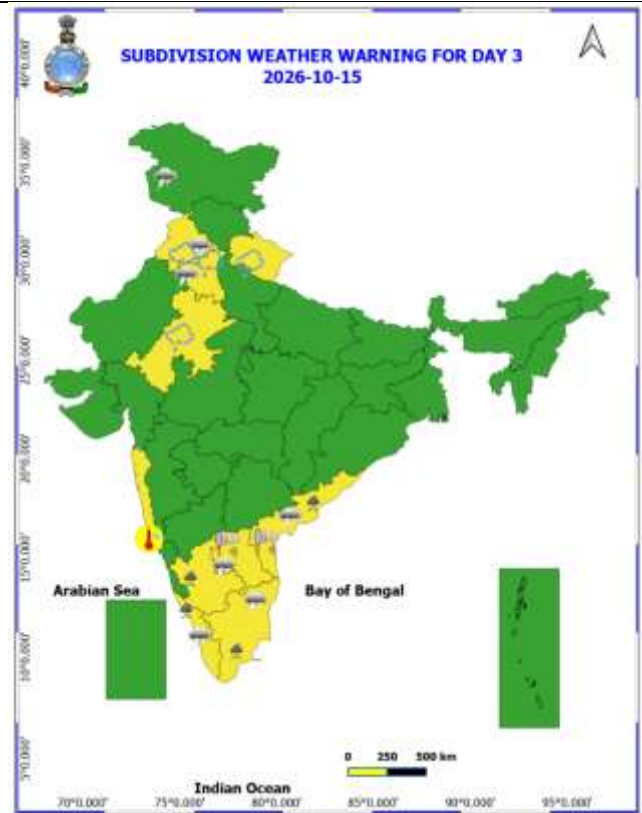
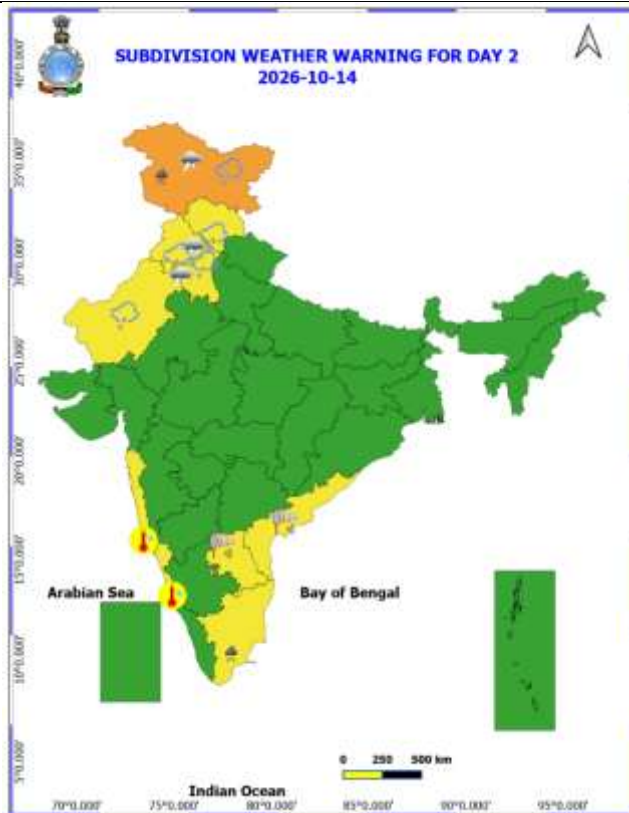
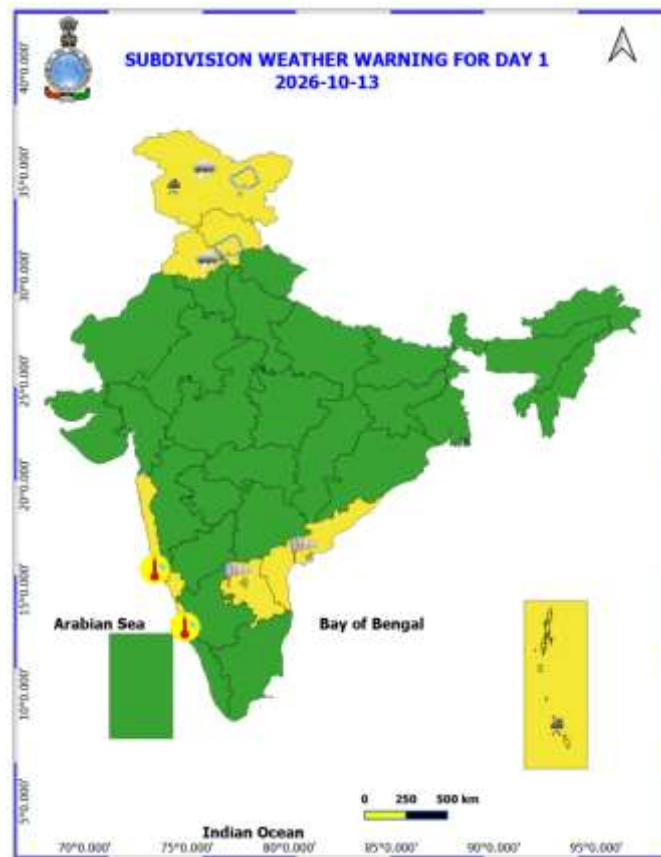
Annexure I

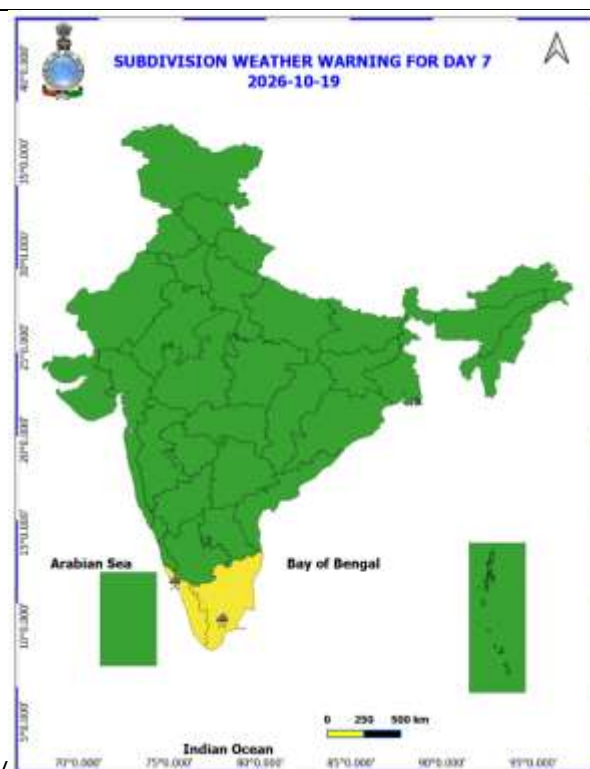
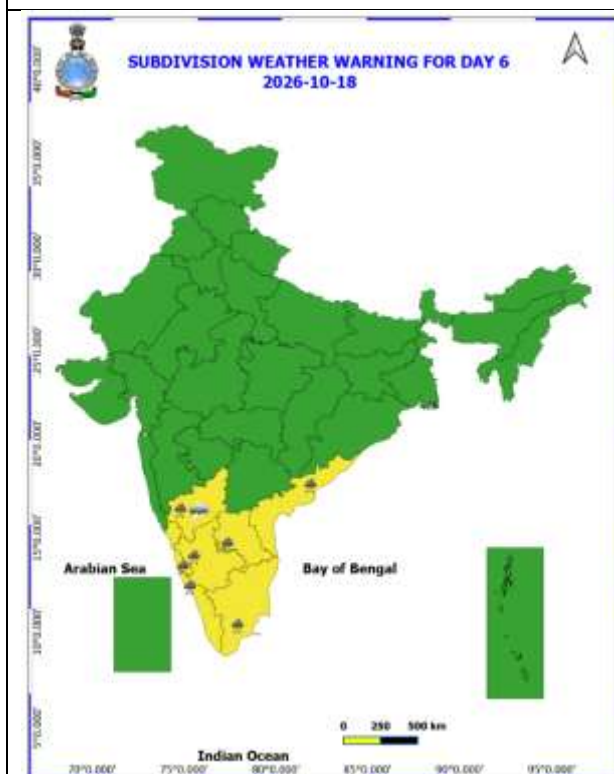
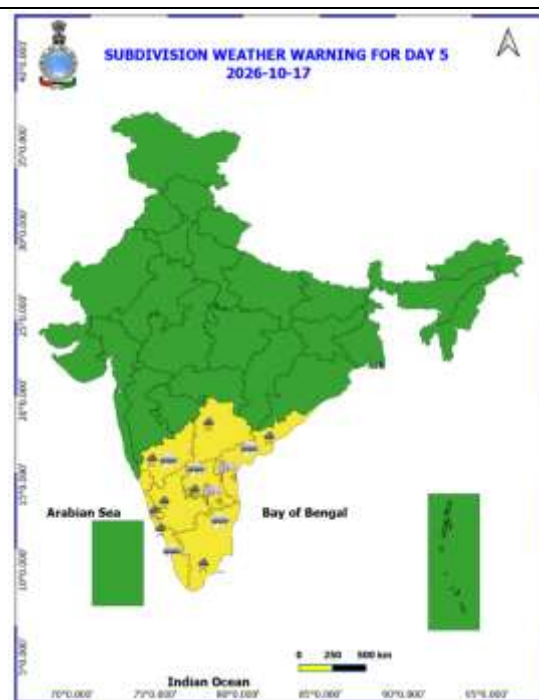
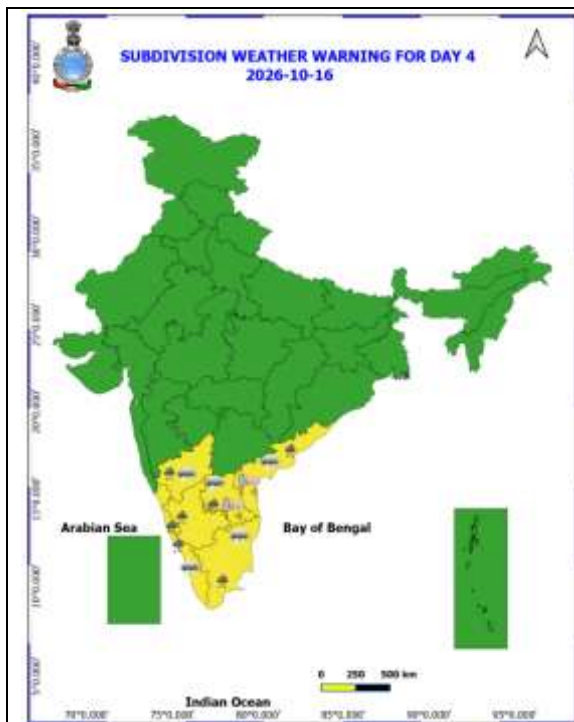


## Annexure II

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

- As the lead period increases forecast accuracy decrease.





Action may be taken based on ORANGE AND REDCOLOUR warnings.

Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning. As the lead period increases forecast accuracy decreases.

Detailed district-wise Multi-Hazard weather warning for next five days available at <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

**Weather forecast over Delhi/NCR during 13<sup>th</sup> -16<sup>th</sup> October 2026****Past Weather:**

There has been fall in maximum temperatures by 1-2°C and rise in minimum temperatures by 1-3°C over Delhi during the past 24 hours. The maximum temperatures were in the range of 28-30°C and the minimum temperatures are in the range 21-22°C respectively during past 24 hours over Delhi. The minimum temperatures are above normal (1.6°C to 3.0°C) at a few places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi. The maximum temperatures are markedly below normal (-5.1°C or below) at many places and appreciably below normal (-3.1°C to -5.0°C) at remaining places over Delhi. Very light rain has been occurred at isolated places over Delhi during past 24 hours. Partly cloudy sky with surface wind speed 15 kmph from the east direction prevailed over Delhi during past 24 hours. Mainly clear sky with surface wind speeds up to 12 kmph from the southeast direction likely to prevail during forenoon over the region today.

**Weather Forecast:**

**13.10.2026:** Mainly clear sky. The maximum temperatures over Delhi are likely to be in the range of 32-34°C. The maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the southeast direction with surface wind speed reaching up to 15 kmph during the afternoon. The surface wind speed will decrease becoming up to 12 kmph from the northeast direction during evening and night hours.

**14.10.2026:** Mainly clear sky becoming partly cloudy sky from evening. The maximum and minimum temperatures over Delhi are likely to be in the range of 33°C to 35°C and 20°C to 22°C, respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the southeast direction with wind speed reaching up to 12 kmph during the morning hours. The surface wind speed will increase becoming up to 15 kmph from the southeast direction during afternoon. The surface wind speed will decrease becoming up to 12 kmph from the northeast direction during evening and night hours.

**15.10.2026:** Partly cloudy sky in the morning becoming generally cloudy sky from noon. A spell of very light to light rain at many places accompanied with thunderstorm/lightning and strong winds 40-50 kmph gusting to 60 kmph most likely during afternoon to evening. Another spell of very light to light rain at many places accompanied with thunderstorm/lightning very likely during night. The maximum and minimum temperatures over Delhi are likely to be in the range of 32°C to 34°C and 19°C to 21°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the southeast direction with wind speed reaching up to 20 kmph during the morning hours. The surface wind speed will decrease becoming up to 18 kmph from the east direction during afternoon. The surface wind speed will decrease becoming up to 12 kmph from the northeast direction during evening and night hours.

**16.10.2026:** Generally cloudy sky. A spell of very light to light rain at many places accompanied with thunderstorm/lightning during early morning to noon. The maximum and minimum temperatures over Delhi are likely to be in the range of 30°C to 32°C and 18°C to 20°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperatures will be below normal (-1.6°C to -3.0°C) at most places over Delhi. The predominant surface wind is likely to be from the southeast direction with wind speed reaching up to 20 kmph during the morning hours. The surface wind speed will decrease becoming up to 18 kmph from the east direction during afternoon. The surface wind speed will decrease becoming up to 15 kmph from northeast direction during evening and night hours.

### **Impact expected and action suggested due to isolated thunderstorm with lightning/squally winds & Hailstorm over**

- ❖ Isolated **Hailstorm** activity likely over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 13th-14th October; East Rajasthan and Uttarakhand on 15th October; Haryana Chandigarh & Delhi and Punjab during 14th-15th October; West Rajasthan on 14th October.

#### **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 very heavy/ extremely heavy rainfall:**

- ❖ Isolated **heavy rainfall** likely over Andaman & Nicobar Islands on 13th October.
- ❖ Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal during 14th-19th October; Kerala & Mahe during 15th-19th October; Coastal Karnataka, North Interior Karnataka and Rayalaseema during 16th-18th October; Coastal Andhra Pradesh & Yanam and South Interior Karnataka during 15th-18th October; Telangana on 17th October.

#### **Impact expected:**

- ❖ Breaking of tree branches, uprooting of small trees like banana, papaya, drum sticks. Strong wind and rain may damage plantation, horticulture and standing crops.
- ❖ Partial damage to vulnerable structures due to strong winds and rain.
- ❖ Minor damage to kutcha houses/walls, huts and roads due to heavy rain.
- ❖ Loose objects may fly.
- ❖ Small ships, trawlers and boats may be affected.
- ❖ Road and rail traffic may be affected due to heavy rain and squally winds.
- ❖ There could be localised landslides, mudslides, landslips, water logging, inundation and flooding over low lying areas.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Helicopter services may get affected.

#### **Action suggested:**

- ❖ People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- ❖ Take safe shelters; do not take shelter under trees, as there could be lightning.

- ❖ In case of expected lightning, unplug electrical/ electronic appliances, immediately, get out of water bodies and keep away from all the objects that conduct electricity.
- ❖ Tourism and recreational activities to be regulated.
- ❖ Onshore and offshore activities to be judiciously regulated.
- ❖ Helicopter services to be regulated.

#### Agromet advisories for likely impact of Heavy Rainfall

- In **Andaman & Nicobar Islands**, ensure drainage in paddy fields, vegetables, and fruit orchards to prevent waterlogging. Postpone fertilizer application, pesticide spraying and intercultural operations during rainfall, and harvest mature produce during suitable dry intervals and store it in a safe, dry place.
- In **Jammu & Kashmir**, ensure proper drainage in standing crop fields. Harvest mature crops during suitable dry intervals and secure harvested produce to prevent damage from rain and thunderstorms.
- In **Tamil Nadu**, maintain effective drainage in paddy nurseries and standing rice fields, as well as cotton, maize, groundnut and vegetable fields. Harvest mature paddy and groundnut during rain-free intervals and store the produce safely.
- In **Konkan & Goa**, protect farm workers and livestock from prolonged hot and humid conditions by ensuring access to shade, drinking water and well-ventilated shelters. Avoid strenuous field operations during the hottest part of the day and monitor crops for moisture stress, irrigating only when necessary.

#### Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

#### Advisories for likely impact of Heavy Rainfall for Livestock / Poultry / Fisheries

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store the feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain excess water, thereby preventing fish from escaping in the event of overflow.

#### Legends & abbreviations:

**Heavy Rain:** 64.5-115.5mm; **Very Heavy Rain:** 115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.

**Obsy:** Observatory; **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.

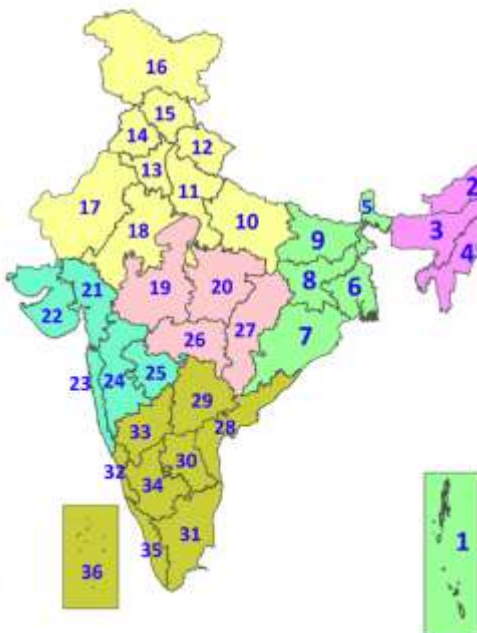
**Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

**West India:** Gujarat Region, Saurashtra & Kutch, Coastal Maharashtra (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.

## LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और माहे
36. लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidarbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% 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)              |

- |                      |                      |              |
|----------------------|----------------------|--------------|
| Fog                  | Heavy Snow           | Cold Wave    |
| Heavy Rain           | Dust Storm           | Cold Day     |
| Very Heavy Rain      | Heat Wave            | Ground Frost |
| Extremely Heavy Rain | Warm Night           |              |
| Thunder & Lightning  | Hot Day              |              |
| Hailstorm            | Hot & Humid          |              |
| Dust Raising Winds   | Strong Surface Winds |              |

### 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                          |
| Likely      | 25 - 50                       |
| Very Likely | 50 - 75                       |
| Most Likely | > 75                          |

## DEFINITION/CRITERIA

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rain/ Snow *</b>    | <b>Heavy:</b> 64.5 to 115.5 mm/cm *<br><b>Very Heavy:</b> 115.6 to 204.4 mm/cm *<br><b>Extremely Heavy:</b> > 204.4 mm/cm *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Heat Wave</b>       | <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><br><b>(a) Based on Departure from normal</b><br><b>Heat Wave:</b> Maximum Temperature Departure from normal $4.5^{\circ}\text{C}$ to $6.4^{\circ}\text{C}$ .<br><b>Severe Heat Wave:</b> Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$<br><b>(b). Based on Actual maximum temperature</b><br><b>Heat Wave:</b> When actual maximum temperature $\geq 45^{\circ}\text{C}$ .<br><b>Severe Heat Wave:</b> When actual maximum temperature $\geq 47^{\circ}\text{C}$ .<br><b>(c). Criteria for heat wave for coastal stations</b><br>When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$ |
| <b>Warm Night</b>      | <b>When maximum temperature remains <math>40^{\circ}\text{C}</math></b><br><b>Warm Night:</b> When minimum temperature departure $4.5^{\circ}\text{C}$ to $6.4^{\circ}\text{C}$ .<br><b>Severe Warm Night:</b> When minimum temperature departure $> 6.4^{\circ}\text{C}$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Cold Wave</b>       | <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><br><b>(a). Based on departure</b><br><b>Cold Wave:</b> Minimum Temperature Departure from normal $-4.5^{\circ}\text{C}$ to $-6.4^{\circ}\text{C}$ .<br><b>Severe Cold Wave:</b> Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$<br><b>(b) Based on actual Minimum Temperature (for Plains only)</b><br><b>Cold Wave :</b> When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$<br><b>Severe Cold Wave:</b> When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$<br><b>(c) For Coastal Stations</b><br>When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$                                                                  |
| <b>Cold Day</b>        | <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><br><b>Based on departure</b><br><b>Cold Day:</b> Maximum Temperature Departure from normal $-4.5^{\circ}\text{C}$ to $-6.4^{\circ}\text{C}$ .<br><b>Severe Cold Day:</b> Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Fog</b>             | <b>Phenomenon of small droplets suspended in air and the horizontal visibility <math>&lt; 1\text{km}</math></b><br><b>Moderate Fog:</b> When the visibility between 500-200 metres<br><b>Dense Fog:</b> when the visibility between 50- 200 metres<br><b>Very Dense Fog:</b> when the visibility $< 50$ metres                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <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>           | <b>Ice deposits on ground</b><br>Air temperature $\leq 4^{\circ}\text{C}$ ( over Plains)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Squall</b>          | <b>A strong wind that rises suddenly, lasts for atleast 1 minute.</b><br><b>Moderate:</b> Wind speed 52-61 kmph<br><b>Severe:</b> Wind speed 62-87 kmph<br><b>Very Severe:</b> Wind speed $> 87$ kmph                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Sea State</b>       | <b>Effect of various waves in the sea over specific area</b><br><b>Rough to very rough:</b> Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre<br><b>High to very high:</b> Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre<br><b>Phenomenal:</b> Wind speed $> 117$ kmph ( $> 63$ knots) & Wave height $> 14$ metre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Cyclone</b>         | <b>Cyclonic Storm:</b> Wind speed 62-87 kmph (34-47 knots)<br><b>Severe Cyclonic Storm:</b> Wind speed 88-117 kmph (48-63 knots)<br><b>Very Severe Cyclonic Storm:</b> Wind speed 118-185 kmph (64 - 89 knots)<br><b>Extremely Severe Cyclonic Storm:</b> Wind speed 186-220 kmph (90 -119 knots)<br><b>Super Cyclone Strom:</b> Wind speed $> 220$ kmph ( $> 119$ knots)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

\* 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)