Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 18th November 2026
Time of Issue:1330 hours IST

Subject:(i) The Severe Cyclonic Storm "Akvan" [Pronunciation: Akvan] over the central parts of south & adjoining westcentral Bay of Bengal is likely to cross North Andhra Pradesh &Yanam and South Odisha coasts between Machilipatnam and Puri, by noon of 20thNovember, 2026 as a severe cyclonic storm with the maximum sustained wind speed of 90-100 kmph gusting to 110 kmph.
(ii) Under the influence of above system, isolated extremely heavy rainfall likely over Coastal Andhra Pradesh & Yanam and Odisha during 19th-20th November, 2026.

Realized weather during past 24 hours ending at 0830 hours IST of today, the 18th November, 2026:

- **Dense fog (visibility < 200 m)** in isolated pockets of Assam.
- **Visibility reported (< 200 meters): Assam:** Jorhat 150.

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

- Yesterday's **Cyclonic Storm "Akvan" [Pronunciation: Akvan]** over the central parts of south & adjoining westcentral Bay of Bengal intensified into a **Severe Cyclonic Storm "Akvan" [Pronunciation: Akvan]** over the same region at 0530 hours IST of today, the 18th November, 2026. It moved north-northwestwards and lay centered at 0830 hours IST of today, the 18th November, 2026 over the same region, near Latitude 12.9°N and Longitude 85.4°E, about 570 km east of Chennai (Tamil Nadu), 580 km south-southeast of Visakhapatnam (Andhra Pradesh),590 km southeast of Machilipatnam (Andhra Pradesh), 660 km northeast of Trincomalee (Sri Lanka),710 km south of Gopalpur (Odisha) and 770 km south of Puri (Odisha). Continuing to move north-northwestwards, it is likely to cross North Andhra Pradesh &Yanam and South Odisha coasts between Machilipatnam and Puri, by noon of 20thNovember, 2026 as a **severe cyclonic storm** with the maximum sustained wind speed of 90-100 kmph gusting to 110 kmph.
- An **upper air cyclonic circulation** lies over Northeast Assam & neighbourhood in lower tropospheric level.
- An **upper air cyclonic circulation** lies over Sikkim & neighbourhood in lower tropospheric level.
- An **upper air cyclonic circulation** lies over Southeast Arabian Sea & adjoining south Lakshadweep area in lower tropospheric levels.
- A feeble **Western Disturbance** as a trough in middle tropospheric level runs roughly along Long. 70°E to the north of Lat. 33°N.

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

South Peninsular India:

- **Fairly Widespread to Widespread** rainfall likely over Tamil Nadu, Puducherry & Karaikal during 23rd-24th November; Coastal Andhra Pradesh & Yanam during 18th-20th November.
- **Isolated to Scattered** rainfall likely over Tamil Nadu, Puducherry & Karaikal during 18th-22nd November; Kerala & Mahe and Rayalaseema during 18th-24th November; Lakshadweep during 22nd-24th November; Coastal Karnataka on 24th November; South Interior Karnataka during 23rd-24th November; Coastal Andhra Pradesh & Yanam during 21st-24th November; Telangana during 19th-21st November.
- Isolated thunderstorm, lightning & gusty winds (speed reaching 80-90 kmph) likely over Coastal Andhra Pradesh & Yanam during 19th-20th November, with gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) likely over Coastal Andhra Pradesh & Yanam on 21st November.
- Isolated **thunderstorm & lightning** likely over Tamil Nadu, Puducherry & Karaikal during 23rd-24th November.
- Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal during 23rd-24th November; Kerala & Mahe on 24th November; Coastal Andhra Pradesh & Yanam on 18th November and on 21st November; Telangana on 20th November.
- Isolated **extremely heavy rainfall** likely over Coastal Andhra Pradesh & Yanam during 19th-20th November.
- **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely over Coastal Andhra Pradesh & Yanam on 18th November.

Northwest India:

- **Isolated to Scattered** rainfall likely over East Uttar Pradesh during 21st-22nd November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over East Uttar Pradesh on 21st November.

Central India:

- **Isolated to Scattered** rainfall likely over West Madhya Pradesh during 21st-22nd November; East Madhya Pradesh during 20th-23rd November; Vidarbha during 20th-22nd November; Chhattisgarh on 19th November and during 22nd-24th November.
- **Fairly Widespread to Widespread** rainfall likely over Chhattisgarh during 20th-21st November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Chhattisgarh and East Madhya Pradesh during 20th-21st November.
- Isolated **heavy rainfall** likely over East Madhya Pradesh on 21st November; Chhattisgarh during 20th-21st November.

East India:

- **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands on 18th November; Gangetic West Bengal during 19th-21st November; Jharkhand during 20th-21st November; Odisha during 19th-20th November.
- **Isolated to Scattered** rainfall likely over Andaman & Nicobar Islands during 19th-24th November; Sub-Himalayan West Bengal & Sikkim during 21st-23rd November; Gangetic West Bengal on 18th November and during 22nd-24th November; Jharkhand on 19th November and during 22nd-23rd November; Bihar during 21st-22nd November; Odisha on 18th November and during 21st-23rd November.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Gangetic West Bengal during 19th-20th November; Jharkhand on 20th November; Odisha on 18th November and on 21st November, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Andaman & Nicobar Islands during 18th-20th November; Gangetic West Bengal on 18th November and on 21st November.
- Isolated **heavy rainfall** likely over Gangetic West Bengal on 19th November and on 21st November; Jharkhand during 20th-21st November; Odisha on 18th November and on 21st November with isolated **very heavy rainfall** also likely over Gangetic West Bengal on 20th November.
- Isolated **extremely heavy rainfall** likely over Odisha during 19th-20th November.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Odisha during 19th-20th November.

Northeast India:

- **Isolated to Scattered** rainfall likely over Arunachal Pradesh on 18th November and during 21st-24th November; Assam & Meghalaya during 18th-24th November; Nagaland, Manipur, Mizoram & Tripura during 18th-19th November and during 22nd-24th November.
- **Fairly Widespread to Widespread** rainfall likely over Nagaland, Manipur, Mizoram & Tripura during 20th-21st November.
- Isolated **thunderstorm & lightning** likely over Assam & Meghalaya during 20th-21st November; Nagaland, Manipur, Mizoram & Tripura during 18th-21st November.
- Isolated **heavy rainfall** likely over Assam & Meghalaya during 20th-21st November; Nagaland, Manipur, Mizoram & Tripura during 19th-21st November.

West India:

- **No significant weather likely over West India during the week**.

Fog warning:

- **Dense fog conditions** very likely over Haryana Chandigarh & Delhi and Punjab during 19th-22nd November.

Wind warning:

- Southeast Bay of Bengal: Gale wind speed 70-80 kmph gusting to 90 kmph is prevailing. It is likely to decrease 60-70 kmph gusting to 80 kmph from evening of 18th November and decrease further thereafter.
- Southwest Bay of Bengal: Gale wind speed reaching 90-100 kmph gusting to 110 kmph is prevailing. It is likely to reduce gradually and becoming 60-70 kmph gusting to 80 kmph on 19th & 20th November.
- Westcentral Bay of Bengal: Gale wind speed reaching 90-100 kmph gusting to 110 kmph is prevailing. It is likely to increase becoming 100-110 kmph gusting to 120 kmph on 19th November. It will decrease gradually thereafter.

- Eastcentral Bay of Bengal: Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail till 18th November evening and decease thereafter gradually.
- Northwest Bay of Bengal: Squally wind speed reaching 40-50 kmph gusting to 60 kmph is prevailing. It is likely to increase becoming 70-80 gusting to 90 kmph from 19th morning till 20th November noon and decease thereafter.
- Along & off North Tamil Nadu & Puducherry coasts: Squally wind speed reaching 40-50 gusting to 60 kmph till 18th November and 50-60 gusting to 70 kmph on 19th & 20th November and decease thereafter.
- Along & off Andhra Pradesh & Yanam coasts: Squally wind speed reaching 40-50 kmph gusting to be 60 kmph is prevailing along and off north Andhra Pradesh and adjoining South Andhra Pradesh coast. It is likely to increase gradually becoming Gale wind speed reaching 60-70 gusting to 80 kmph on 19th November morning and 90-110 gusting to 110 kmph from19th November till landfall on 20th November noon. It will decrease gradually thereafter.
- Along & off Odisha coast: Squally wind speed reaching 40-50 kmph gusting to 60 kmph is prevailing. It is likely to increase becoming 50-60 gusting 70 kmph from night of 18th November and likely to increase further becoming gale wind speed reaching 70-80 kmph gusting to 90 kmph from 19th November morning till 20th November noon and decrease gradually thereafter.

Sea condition:

- Southeast Bay of Bengal: Very rough to high sea condition is likely to prevail till 18th November noon and improve thereafter.
- Southwest Bay of Bengal: Very rough to high sea condition is prevailing and it is likely to deteriorate becoming high to very high till 20th November and improve thereafter.
- Westcentral Bay of Bengal: Very High Sea condition is prevailing; it is likely to continue till landfall on 20th November. It is likely to improve thereafter becoming very rough to rough by 21st November morning.
- Eastcentral Bay of Bengal: Rough to very rough sea condition is likely to prevail till 18th November.
- Northwest Bay of Bengal: Rough to very rough sea condition is very likely form night of 18th till 20th November.
- Along & off North Tamil Nadu & Puducherry coasts: Rough to very rough sea condition is very likely till 20th November.
- Along & off Andhra Pradesh & Yanam coasts: Very rough to high sea condition likely on 18th, high to very high on 19th November morning and likely to continue till landfall on 20th November. It is likely to improve becoming very rough to rough by 21st November morning.
- Along & off Odisha coast: Rough to very rough sea condition is very likely from 18th November night till 21th November.

Storm Surge Warning:

- Storm surge of 0.5 to 1.2 m height above astronomical tide is very likely to inundate low lying areas of Andhra Pradesh (West Godavari, Konaseema, Kakinada, Vijayanagaram, Srikakulam and Visakhapatnam districts) and south coastal Odisha (Ganjam, Khorda and Puri) during the time of landfall.

Fisherman warning:

Fishermen are advised not to venture into

- Southeast Bay of Bengal from till 18th November.
- Southwest Bay of Bengal till 19th November.
- Westcentral Bay of Bengal till 21st November morning.
- Eastcentral Bay of Bengal till 19th November.
- Northwest Bay of Bengal till 21st November morning.

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

For more details, kindly refer National Weather Bulletin: https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

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

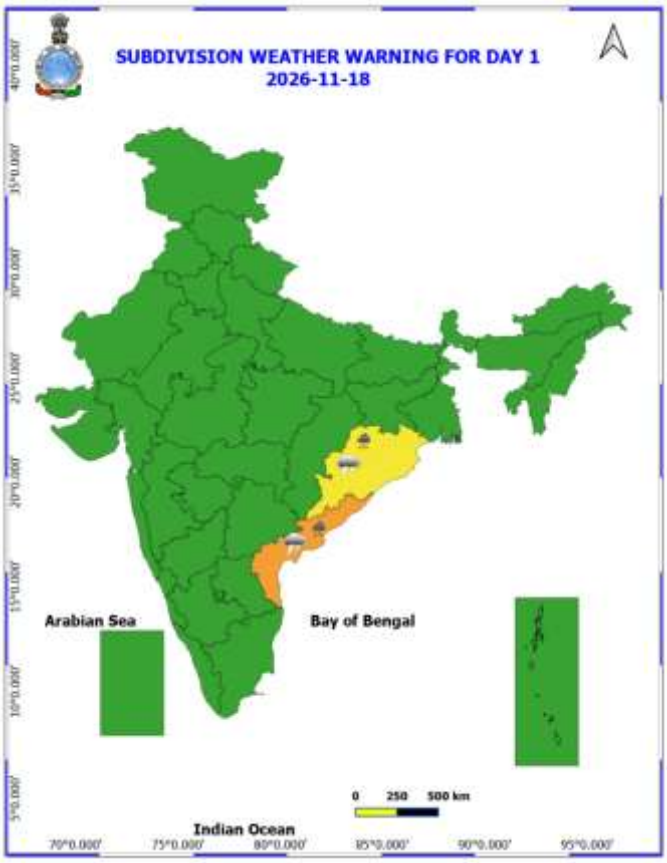
For Fishermen warning refer https://rsmcnewdelhi.imd.gov.in/fishermenwarning.php

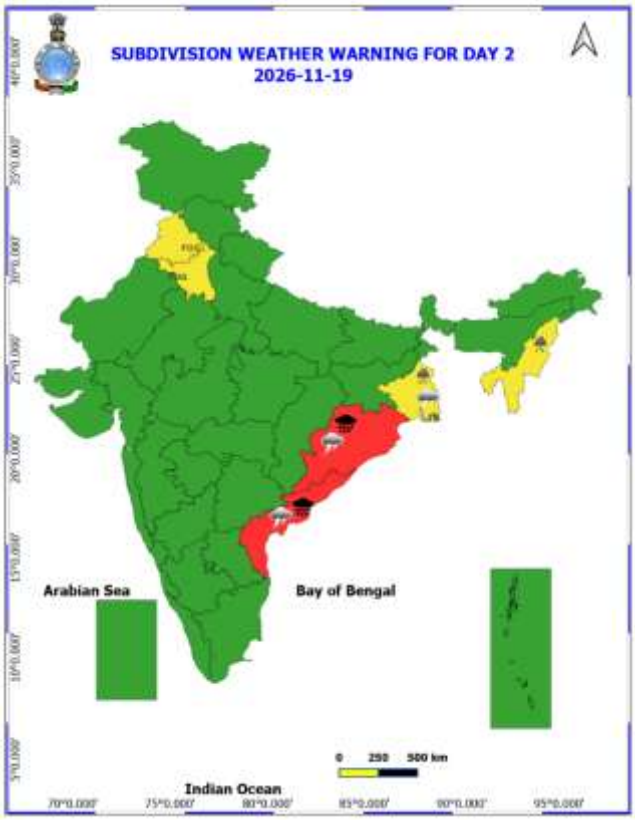
Annexure I

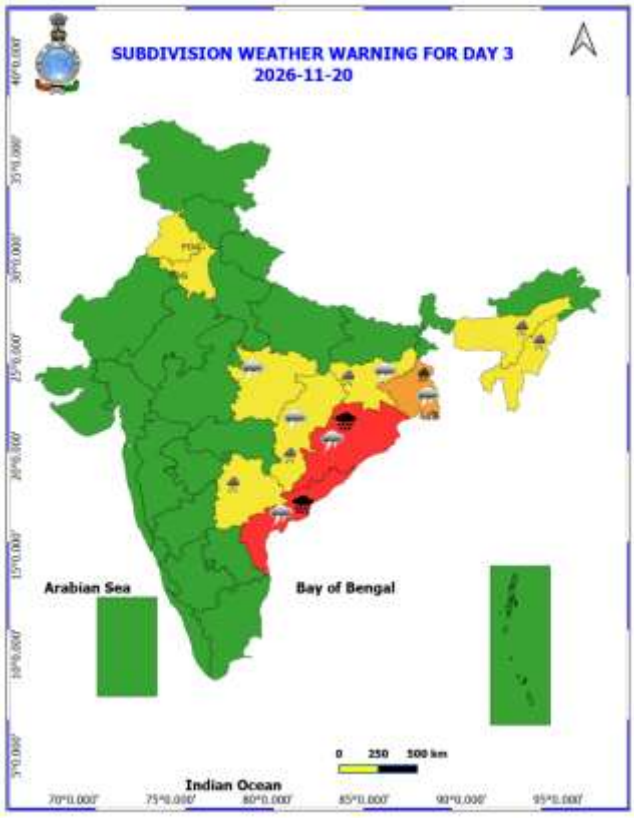
Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	18- Nov	19- Nov	20- Nov	21- Nov	22- Nov	23- Nov	24- Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	SCT	SCT	SCT	SCT	SCT	SCT
2	ARUNACHAL PRADESH	ISOL	DRY	DRY	ISOL	ISOL	SCT	SCT
3	ASSAM & MEHGHALAYA	ISOL	ISOL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

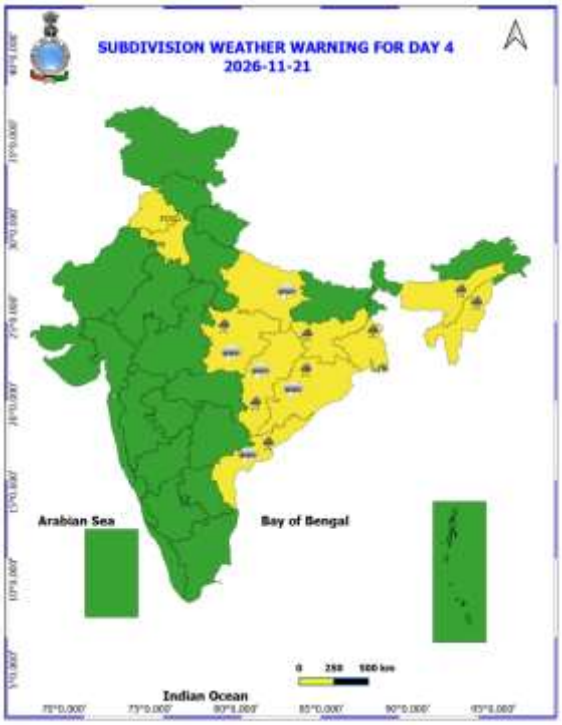
- **As the lead period increases forecast accuracy decrease.**

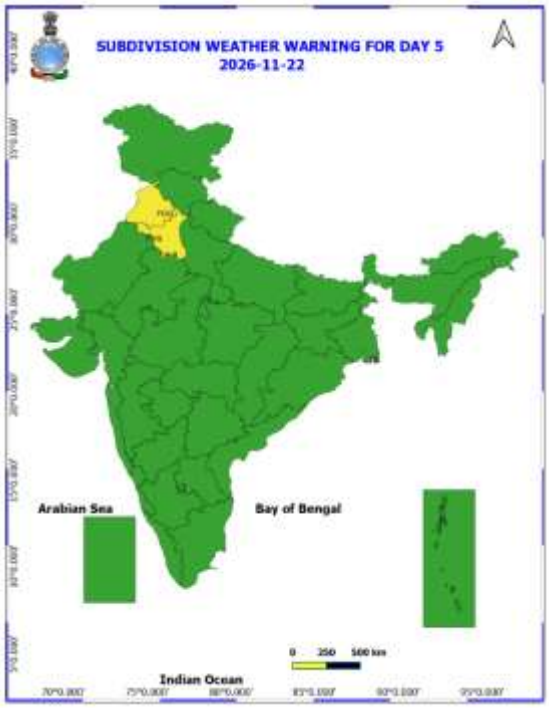
Annexure II

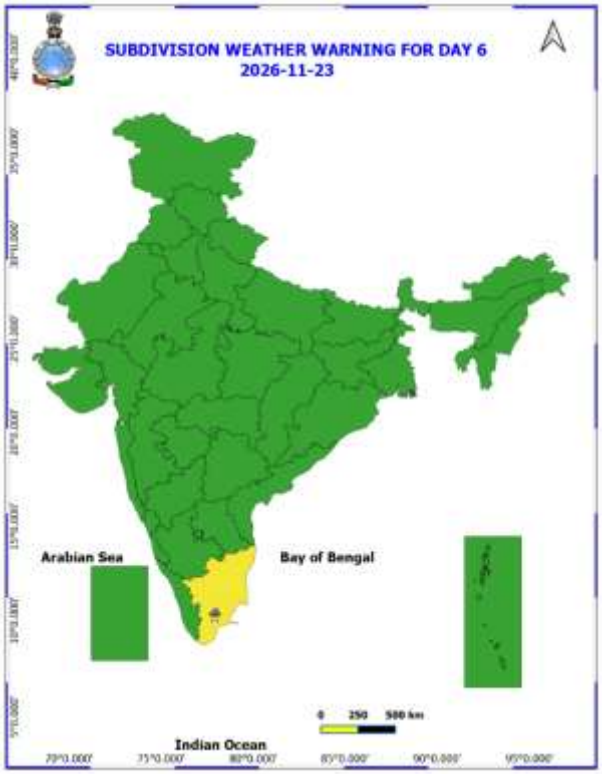

SUBDIVISION WEATHER WARNING FOR DAY 1
2026-11-18
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km

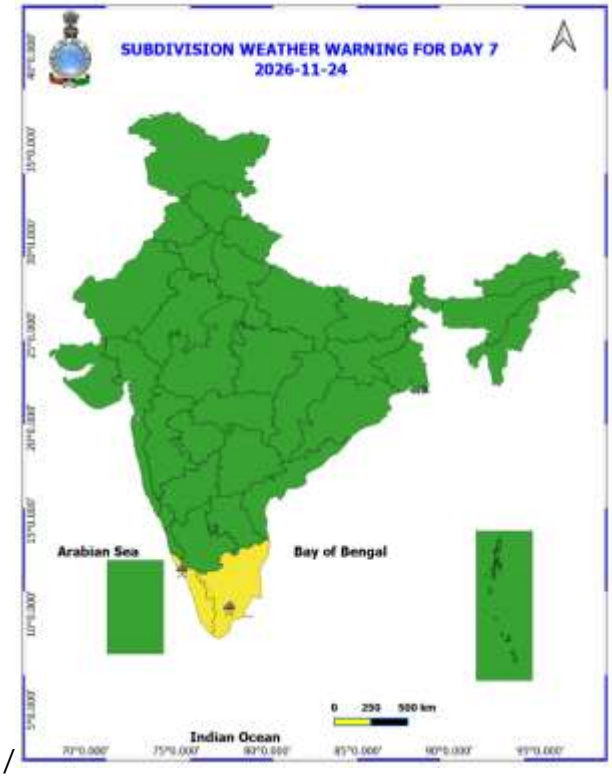

SUBDIVISION WEATHER WARNING FOR DAY 2
2026-11-19
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km


SUBDIVISION WEATHER WARNING FOR DAY 3
2026-11-20
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km









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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

Annexure III

Weather forecast over Delhi/NCR during 18th Nov. to 21st Nov. 2026

Past Weather:

There has been rise in maximum temperatures by 1°C and fall in minimum temperatures by 1-2°C over Delhi during the past 24 hours. The maximum temperatures were in the range of 25-28°C and the minimum temperatures are in the range 11-12°C respectively during past 24 hours over Delhi. The minimum temperatures are below normal (-1.6°C to -3.0°C) at isolated places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi during the past 24 hours. The maximum temperatures were below normal (-1.6°C to -3.0°C) at isolated places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi during the past 24 hours. Mainly clear sky with surface wind speeds up to 15 kmph from the west direction prevailed over Delhi during past 24 hours. Mainly clear sky with surface wind speeds up to 10 kmph from the northwest directions prevailed during forenoon over the region today.

Weather Forecast:

18.11.2026: Mainly clear sky. The maximum temperatures over Delhi are likely to be in the range of 25-27°C. The maximum temperature will be near normal (-1.5°C to 1.5°C) at many places with below normal (-1.6°C to -3.0°C) at isolated places over Delhi. The predominant surface wind will likely to be from the northwest direction with surface wind speed reaching up to 15 kmph during the afternoon. The surface wind speed is likely to be associated with calm wind reaching up to 05 kmph from the north direction during evening and night hours.

19.11.2026: Mainly clear sky. Mist/shallow fog at most places in the morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 24°C to 26°C and 11°C to 13°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 northwest direction associated with calm wind reaching up to 05 kmph during the morning hours. The surface wind speed will increase becoming up to 15 kmph from the northwest direction during afternoon. The surface wind speed is likely to be associated with calm wind reaching up to 05 kmph from the north direction during evening and night hours.

20.11.2026: Mainly clear sky. Shallow fog at most places with moderate fog at a few places in the morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 24°C to 26°C and 11°C to 13°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at many 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 northeast direction associated with calm wind reaching up to 05 kmph during the morning hours. The surface wind speed will increase becoming up to 10 kmph from the southeast direction during afternoon. The surface wind speed is likely to be associated with calm wind reaching up to 05 kmph from the northeast direction during evening and night hours.

21.11.2026: Partly cloudy sky. Shallow fog at most places with moderate fog at many places in the morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 24°C to 26°C and 13°C to 15°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at many places with above normal (1.6°C to 3.0°C) at isolated 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 northeast direction associated with calm wind reaching up to 05 kmph during the morning hours. The surface wind speed will increase becoming up to 10 kmph from the southeast direction during afternoon. The surface wind speed is likely to be associated with calm wind reaching up to 05 kmph from the northeast direction during evening and night hours.

Impact Expected and Action Suggested due to extremely/ very heavy rainfall:

- **Isolated extremely heavy rainfall likely over Coastal Andhra Pradesh & Yanam and Odisha during 19th-20th November.**
- **Isolated very heavy rainfall also likely over Gangetic West Bengal on 20th November.**

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.

Impact expected due to dense fog in the night /morning hours:

- **Dense fog conditions** very likely over Haryana Chandigarh & Delhi and Punjab during 19th-22nd November.

- Transport and Aviation:
  - May affect some airports, highways and railway routes in the areas of met- sub-division.
  - Difficult driving conditions with slower journey times.
  - Unless taken precautionary measures, it may lead to some road traffic collisions.

- Power Sector:
  - Chances of Tripping of Power lines in the very dense fog routes.
- Human Health:
  - Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.
  - Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
  - Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

- Transport and Aviation:
  - Be careful while driving or outing through any transport.
  - Use fog lights during driving.
  - Be in touch with airlines, railways and state transport for schedule of your journey.
- Power Sector:
  - To keep ready Maintenance Team.
  - Human Health: To avoid outing until unless emergency and to cover the face.

Agromet advisories for likely impact of Heavy Rainfall

- In **Coastal Andhra Pradesh,** harvest matured crops of rice, maize, groundnut, cotton and vegetables and matured fruits of banana and papaya immediately, if feasible and keep the harvested produce in a safe place. Postpone sowing of *rabi* crops such as green gram, black gram, maize and sunhemp. Make necessary arrangements for draining excess water from fields of rice, red gram, cotton, maize, sugarcane, turmeric, ginger, niger, rajmash, ragi and vegetables; plantations of banana and already sown crops of *rabi* maize and sunhemp. Provide adequate support to banana, coffee, black pepper and other plantation crops to minimize damage due to strong winds.
- In **Odisha,** harvest matured crops of rice, maize, finger millet, green gram, black gram, groundnut and seasonal vegetables immediately, if feasible and store the harvested produce in a safe and covered place. Pick fully opened cotton bolls and store them in safe place. Cover vegetables nurseries like tomato, chilli and brinjal using plastic covers or polythene sheets. Make provision to drain excess water from standing rice fields, vegetable nurseries and recently sown fields of mustard, groundnut, green gram and black gram. Provide additional support to weak plants using wooden sticks or bamboo poles.
- In **Gangetic West Bengal**, undertake harvesting of mature aman rice immediately and keep the harvested produce in safe and dry place. Make proper arrangement for draining out excess water from fields of standing crops, winter vegetables and betel vine garden. Avoid planting of potato during heavy rainfall.
- In **Chhattisgarh**, keep harvested produce of rice in safe and elevated place at the earliest. Postpone the sowing of rabi crops such as chickpea, wheat, mustard and vegetables (cauliflower, broccoli, beetroot, late-season cucumber and late-season bitter gourd). Make provision to drain excess water from the standing crop fields. Provide support / staking to banana and tomato plants; support for vine-type vegetables such as bitter gourd, bottle gourd and other cucurbitaceous vegetables.
- In **Jharkhand,** harvest mature rice crop and store the produce in a safe place. Ensure proper drainage facilities in vegetable nurseries and fields of potato and pulses.
- In **Telangana,** harvest matured crops of *kharif* rice, maize and turmeric and keep the produce in safe place. Postpone sowing of rice nurseries and *rabi* crops such as sorghum, maize, sesame, sunflower, safflower, chickpea, mustard, groundnut, cowpea, black gram, green gram. Provide adequate drainage channels in already sown fields of jowar, maize, groundnut and Bengal gram to facilitate quick removal of excess rainwater.

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.

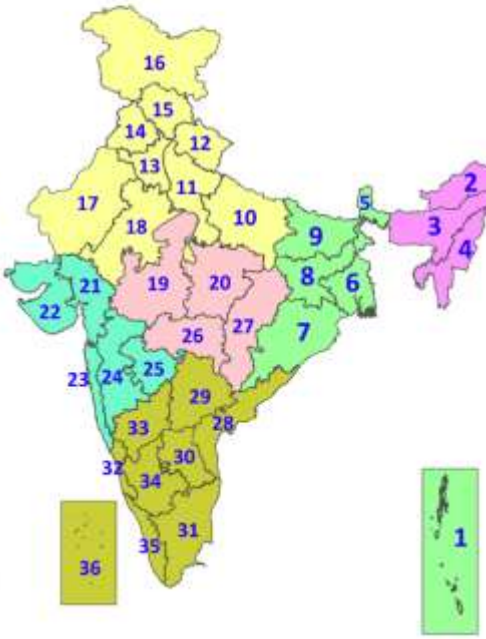
South India: Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Keralam & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

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

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

* 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
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DEFINITION/CRITERIA

Rain/ Snow *

- **Heavy:** 64.5 to 115.5 mm/cm *
- **Very Heavy:** 115.6 to 204.4 mm/cm*
- **Extremely Heavy:** > 204.4 mm/cm *

Heat Wave

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

(b). Based on Actual maximum temperature

- **Heat Wave:** When actual maximum temperature ≥45°C.
- **Severe Heat Wave:** When actual maximum temperature ≥47°C

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C

Warm Night

When maximum temperature remains 40°C

- **Warm Night:** When minimum temperature departure 4.5 °C to 6.4 °C.
- **Severe Warm Night:** When minimum temperature departure >6.4 °C.

Cold Wave

When minimum temperature of a station ≤10°C for plains and ≤0°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

(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

Cold Day

When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions

Based on departure

- **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

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility < 1km

- **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

Thunderstorm

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.

Frost

Ice deposits on ground

- Air temperature ≤4°C (over Plains)

Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

- **Moderate**: Wind speed 52-61 kmph
- **Severe**: Wind speed 62-87 kmph
- **Very Severe**: Wind speed >87 kmph

Sea State

Effect of various waves in the sea over specific area

- **Rough to very rough**: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
- **High to very high**: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
- **Phenomenal**: Wind speed >117 kmph (>63 knots) & Wave height >14 metre

Cyclone

- **Cyclonic Storm**: Wind speed 62-87 kmph (34-47 knots)
- **Severe Cyclonic Storm**: Wind speed 88-117 kmph (48-63 knots)
- **Very Severe Cyclonic Storm**: Wind speed 118-165 kmph (64 - 89 knots)
- **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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