



India Meteorological Department

(Ministry of Earth Sciences)

Agrimet Bulletin No. 1

Depression over east central Bay of Bengal (Pre-Cyclone Watch for Odisha and West Bengal coasts)

Time of Issue: 1500 HOURS IST

DATED: 22.10.2024

The depression over Eastcentral Bay of Bengal moved slowly west-northwestwards with a speed of 4 kmph during past 6 hours and lay centred at 1130 hrs IST of today, the 22nd October, over the same region near latitude 15.5° N and longitude 91.0°E, about 700 km southeast of Paradip (Odisha), 750 km south-southeast of Sagar Island (West Bengal) and 730 km south-southeast of Khepupara (Bangladesh).

It is very likely to move west-northwestwards and intensify into a cyclonic storm by 23rd October, 2024 over eastcentral Bay of Bengal. Thereafter, continuing to move northwestwards, it is very likely to intensify into a severe cyclonic storm over northwest Bay of Bengal by morning of 24th and cross north Odisha and West Bengal coasts between Puri and Sagar Island during night of 24th to morning of 25th October, 2024 as a severe Cyclonic Storm with a wind speed of 100-110 kmph gusting 120 kmph.

Warnings

(i) Rainfall warning

- Light to moderate rainfall at most places with **heavy rainfall** (07-11 cm) at isolated places over **Andaman Islands** on 22nd October.
- Light to moderate rainfall at most places with **heavy rainfall** (07-11 cm) at isolated places is very likely over **Balasore, Bhadrak, Kendrapara, Jagatsingpur, Puri and Khorda**, districts of Odisha on 23rd Oct. & **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall** (≥ 21 cm) at isolated places over **Baleswar, Mayurbhanj, Bhadrak, Kendrapara, Jagatsingpur Kendujhar, Jajpur, Cuttack and Dhenkanal, Khorda and Puri** districts of Odisha on 24th & 25th October.
- Light to moderate rainfall at most places with **heavy rainfall** at isolated places is very likely on 23rd October and **heavy to very heavy rainfall** at a few places with **extremely heavy rainfall** at isolated places over **South & North 24 Parganas, East & West Medinipur, Jhargram, Howrah, Hooghly, Kolkata and Bankura** districts of Gangetic West Bengal on 24th & 25th October.
- Light to moderate rainfall at most places is likely over **south Jharkhand** with **heavy rainfall** at isolated places on 24th and **heavy to very heavy rainfall** at isolated places on 25th October.

(ii) Wind warning

- **Eastcentral Bay of Bengal:** Squally wind speed reaching 40-50 kmph gusting to 60 kmph is very likely on 22nd October, 50-60 kmph gusting to 70 kmph by 22nd night, 70-90 kmph gusting to 100 kmph from 23rd evening till 24th morning.
- **Adjoining areas of Westcentral Bay of Bengal:** Squally wind speed reaching 40-50 kmph gusting to 60 kmph is very likely to commence from 22nd evening, 70-80 kmph gusting to 90 kmph from 23rd morning to 24th afternoon.
- **Northwest Bay of Bengal:** Squally wind speed reaching 40-50 kmph gusting to 60 kmph is very likely to commence from 23rd morning. It would gradually increase becoming gale wind speed reaching 70-90 kmph gusting to 100 kmph from 23rd night to 24th morning and 100-110 kmph gusting to 120 kmph from 24th Oct evening to 25th Oct morning and decrease gradually thereafter.
- **Adjoining areas of northeast Bay of Bengal:** Squally wind speed reaching 40-50 kmph gusting to 60 kmph is very likely to commence from 23rd night, becoming 50-60 kmph gusting to 70 kmph from 24th till 25th morning and decrease gradually thereafter.
- **Along & off Odisha-west Bengal coasts:** Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to commence from 23rd Oct evening. It would gradually increase becoming gale wind speed reaching 60-70 kmph gusting to 80 kmph from 24th morning and reaching 100-110 kmph gusting to 120 kmph from 24th night till 25th Oct morning and decrease gradually thereafter.

(iii) Sea condition

- **Eastcentral Bay of Bengal:** Sea condition is likely to be **Rough to Very Rough** on 22nd October, becoming **very rough to high from 23rd morning till 24th October morning**.
- **Adjoining areas of Westcentral Bay of Bengal:** Sea condition is likely to be **Rough to Very Rough** on 23rd and **very rough to high** on 24th October.
- **Northwest Bay of Bengal:** Sea condition is likely to be **Rough to Very Rough** from 23rd morning and would become **High to Very High** from 23rd night till 25th morning and improve gradually thereafter.
- **Adjoining areas of northeast Bay of Bengal:** Sea condition is likely to be **Rough to Very Rough** from 23rd night till 25th morning and improve gradually thereafter.
- **Along & off Odisha-west Bengal coasts:** Sea condition is likely to be **Rough to Very Rough** from 23rd evening and would become **High to Very High** from 24th October morning to 25th Oct forenoon and improve gradually thereafter.

Fishermen Warning

Fishermen are advised not to venture into

- **Eastcentral Bay of Bengal** during 22nd to 24th October.
- **Adjoining areas of Westcentral Bay of Bengal** on 23rd and 24th Oct.
- **North Bay of Bengal** and along & off Odisha, West Bengal and Bangladesh coasts during 23rd to 25th October.

Special Agromet Advisories

Andaman & Nicobar Islands

- Postpone harvesting of the matured rice crop.
- Open the bund to avoid water stagnation in the rice fields where crop is near physiological maturity.
- Drain out excess water from vegetables.

Odisha

AMFU Bhubaneswar (Jagatsinghpur, Kendrapara, Khordha and Puri districts)

- Harvest matured maize, groundnut and rice crop (if 85% grains are matured in a panicle) and store in a safer place.
- Make provision for draining out excess rain water from the fields of rice, maize, groundnut, sugarcane, vegetables and fruits.
- Provide staking in banana, papaya, sugarcane and tomato.
- Tie sugarcane leaves from four to five plants together to prevent lodging.
- Postpone sowing of *rabi* crops and planting of winter vegetables.

DAMU Cuttack (Cuttack district)

- Harvest the *kharif* rice (if the crop is at 85% maturity) and vegetables (cow pea, ridge gourd etc.). Keep the harvested produce in safe place.
- Arrange drainage facilities in rice (reproductive stage), sugarcane, maize, vegetables and fruits.
- Postpone sowing of *rabi* crops such as green gram, black gram, groundnut, mustard, potato, onion, coriander, carrot and radish.
- Cover the vegetable nurseries with white polythene.
- Undertake staking in vegetables and fruits.

AMFU Ranital (Balasore, Bhadrak and Jajpur districts)

- Harvest matured crops, fruits and vegetables at the earliest.
- Arrange drainage facilities in low land paddy fields.
- Postpone spraying activities for 5 days.

AMFU Keonjhar (Keonjhar and Mayurbhanj districts)

- Harvest matured maize, green gram, black gram, paddy (at 60-70% maturity) and vegetables. Store the harvested paddy at safe place.
- Make provision to drain out excess water from maize, rice and vegetables.
- Do not allow pumpkin fruits to touch the ground or water.
- Keep a polythene under the fruit to minimize the fruit damage.

AMFU Mahisapat (Dhenkanal district)

- Harvest the rice crop (if 85 % grains are matured in a panicle), matured maize, millets, *kharif* pulses, vegetables and oilseeds and store them in a safer place.
- Tie sugarcane leaves from four to five plants together to prevent lodging and provide staking.
- Make provision for draining out excess water from standing crop fields.
- Postpone sowing and planting of winter vegetables.

West Bengal

AMFU Khargpur (Paschim Medinipur, Jhargram and Bankura districts)

- Harvest matured vegetables and fruits at the earliest and shift them to safer places.

- Make provision for draining out excess water from *Aman* rice (Grain filling stage), groundnut and *kharif* pulses.

AMFU Kalyani (Hooghly, Howrah and North 24 Parganas districts)

- Harvest *Aus* rice (at 80% maturity) using combine harvester machine, vegetables and fruits and shift them to safer places.
- Provide staking in banana to prevent lodging.
- Strengthen Boroj in betel vine.

AMFU Kakdwip (South 24 Parganas and East Medinipur districts)

- Harvest matured vegetables and shift to safer places.
- Make provision to drain out excess water from standing rice, betal vine and vegetables.

Livestock and Poultry

- Keep the animals inside the shed during heavy rainfall and provide balanced feed.
- Store the feed and fodder at safer place to avoid spoilage from rainfall.
- Hang gunny bags all around poultry sheds.
- Provide clean drinking water to the animals

Fishery

- Construct an outlet with proper netting to drain out excess rain water, thereby preventing fishes/fingerlings from escaping the pond in case of over filling and maintaining the water level.
- Check and repair dykes around the ponds to avoid entry of runoff water from catchment area.