



India Meteorological Department

PRESS RELEASE-3

Time of issue: 1400 hours IST Dated: 22ND October, 2024

Subject: Depression over Eastcentral Bay of Bengal: Pre-Cyclone Watch for Odisha and West Bengal

Yesterday's well marked low pressure area over Eastcentral Bay of Bengal moved west-northwestwards, intensified into a depression in the early morning (0530 hours IST) and lay centred at 0830 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.

Forecast track and intensity are given in the following table:

Date/Time (IST)	Position (Lat. °N/ Long. °E)	Maximum Sustained Surface Wind Speed (Kmph)	Category Of Cyclonic Disturbance
22.10.24/0830	15.5/91.0	40-50 gusting to 60	Depression
22.10.24/1130	15.6/90.7	45-55 gusting to 65	Depression
22.10.24/1730	15.8/90.2	50-60 gusting to 70	Deep Depression
22.10.24/2330	16.1/89.7	55-65 gusting to 75	Deep Depression
23.10.24/0530	16.5/89.2	60-70 gusting to 80	Cyclonic Storm
23.10.24/1730	17.4/88.4	70-80 gusting to 90	Cyclonic Storm
24.10.24/0530	18.7/87.8	85-95 gusting to 105	Severe Cyclonic Storm
24.10.24/1730	20.0/87.5	100-110 gusting to 120	Severe Cyclonic Storm
25.10.24/0530	21.0/86.8	95-105 gusting to 115	Severe Cyclonic Storm
25.10.24/1730	21.5/85.8	70-80 gusting 90	Cyclonic Storm

(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

Contact: Cyclone Warning Division, Office of the Director General of Meteorology, India Meteorological

Department, Ministry of Earth Sciences, <u>E-mail: cyclonewarningdivision@gmail.com</u>, Website:

<u>rsmcnewdelhi.imd.gov.in</u>, Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%,

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

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.

(iv) 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.

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• **North Bay of Bengal** and along & off Odisha, West Bengal and Bangladesh coasts during 23rd to 25th October.

Fishermen out at sea are advised to return to coasts by today, the 22nd Oct.

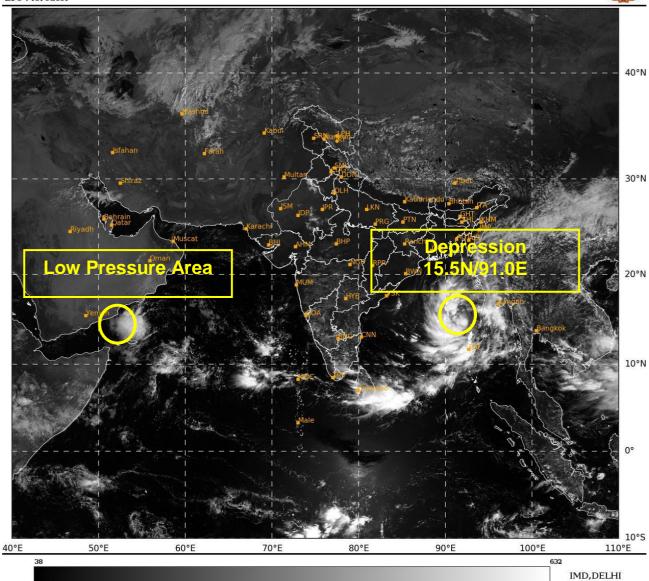
- (v) Impact Expected over districts of Odisha (Baleswar, Bhadrak, Kendrapara, Jagatsinghpur, Puri, Khorda, Mayurbhanj, Kendujhar, Jajpur, Cuttack, Dhenkanal) and West Bengal (South & North 24 Parganas, East & West Medinipur, Jhargram, Howrah, Hooghly, Kolkata, & Bankura)
 - Major damage to thatched houses/ huts. Roof tops may blow off. Unattached metal sheets may fly.
 - Breaking of tree branches and uprooting of trees.
 - Damage to power and communication lines.
 - ➤ Major damage to Kutcha and some damage to Pucca roads. Flooding of escape routes.
 - Possibilities of damage to vulnerable structure.
 - Major damage to banana and papaya trees. Large dead limbs blown from trees.
 - > Damage to horticulture and standing crops due to inundation and wind.
 - Damage to embankments/ salt pans.
 - Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
 - Occasional reduction in visibility due to heavy rainfall.
 - Disruption of traffic in major cities and roadways due to water logging in roads and poor visibility due to heavy rain leading to increased travel time and incidents
 - Localized Landslides/Mudslides/landslips/mud slips/land sinks/mud sinks.
 - ➤ Likely disruption of marine and inland water transportation like small boats and trawlers.
 - > It may lead to riverine flooding in some river catchments (for riverine flooding please visit Webpage of Central Water Commission)
- ❖ Action Suggested Baleswar, Bhadrak, Kendrapara, Jagatsinghpur, Puri, Khorda, Mayurbhanj, Kendujhar, Jajpur, Cuttack, Dhenkanal) and West Bengal (South & North 24 Parganas, East & West Medinipur, Jhargram, Howrah, Hooghly, Kolkata & Bankura)
 - > Total suspension of fishing operations during 22nd to 25th Oct over Central and North Bay of Bengal.
 - > 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 coasts during 23rd to 25th October morning.
 - Fishermen out at sea are advised to return to coasts by today, the 22nd October.
 - Movement in motor boats unsafe
 - Coastal hutment dwellers to be moved to safer places.
 - > People in affected areas to remain indoors.
 - > Judicious regulation of onshore/offshore, Port and maritime activities including shipping.
 - > Judicious regulation of tourism activities in coastal areas.
 - Judicious regulation of surface transports including railways and roadways.
 - Check for traffic congestion on your route before leaving for your destination.
 - Follow any traffic advisories that are issued in this regard.
 - Avoid going to areas that face the water logging problems often.
 - > Avoid staying in vulnerable structure.

Next Press Release will be issued at 1430 hours IST of tomorrow, the 23rd October, 2024

SAT : INSAT-3DR IMG Visible Count 0.65 um L1C Mercator

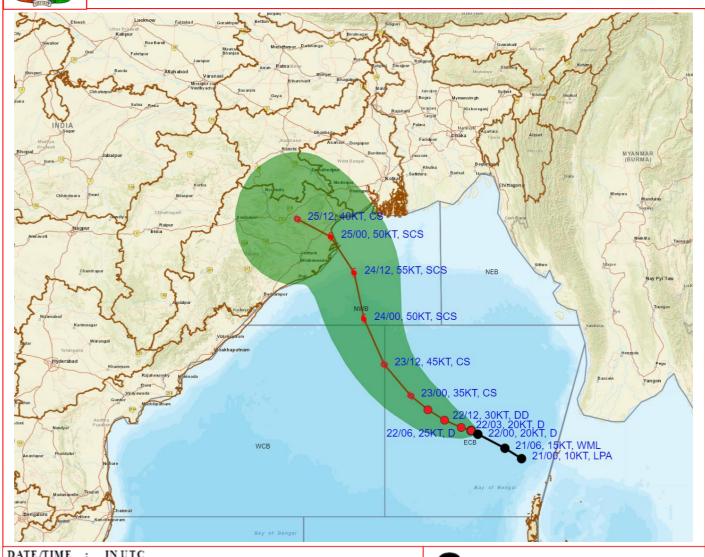
22-10-2024/(0545 to 0612) GMT 22-10-2024/(1115 to 1142) IST







OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 0300 UTC (0830 Hrs. IST) OF 22ND OCTOBER 2024



DATE/TIME : IN UTC IST : UTC + 0530

KT : NAUTICAL MILE S/HOUR = 1.85 KM/HOUR

LPA : LOW PRE SSURE ARE A

WML : WELL MARKED LOW PRESSURE AREA

D : DE PRE SSION (17-27 K T)
DD : DE EP DE PRE SSION (28-33 K T)
CS : CYCLONIC STORM (34-47 K T)

SCS : SEVERECY CLONIC STORM (48-63 KT)
VSCS : VERY SEVERECY CLONIC STORM (64-89 KT)

ESCS : EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS : SUPER CYCLONIC STORM (≥120 KT)

LESS THAN 34 KT

34.47 KT

≥ 48 KT

OBSERVED TRACK

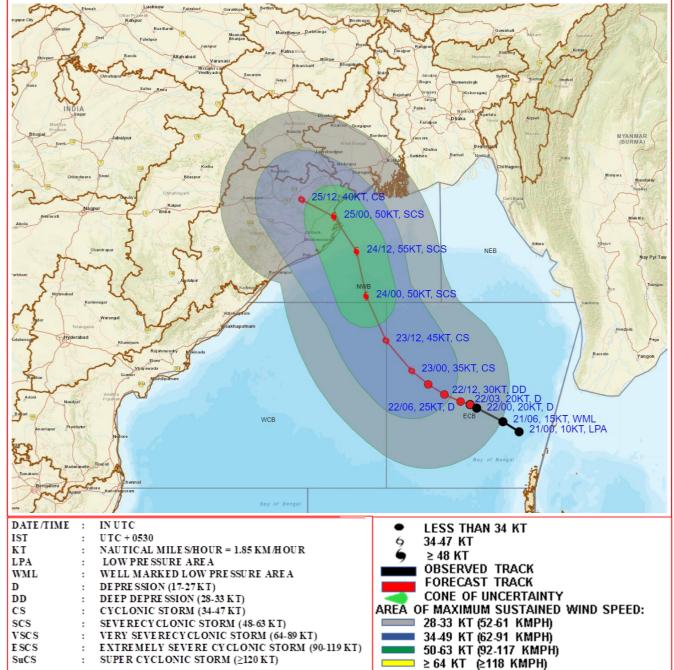
FORECAST TRACK

CONE OF UNCERTAINTY

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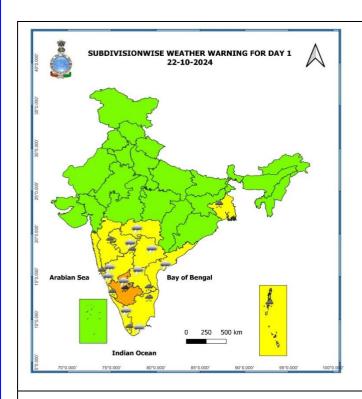


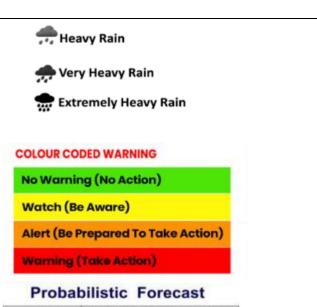
OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 0300 UTC (0830 Hrs. IST) OF 22ND OCTOBER 2024



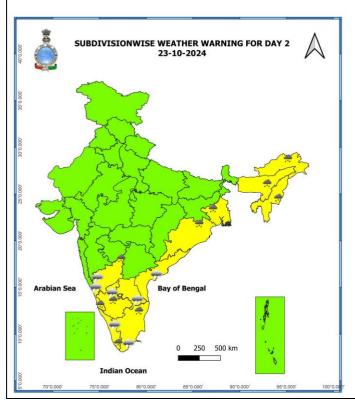
IMPACT OVER THE SEA			
MSW (knot/kmph)	Impact	Action	
28-33 (52-61)	Very rough seas	Total suspension of fishing operations	
34-49 (62-91)	High to very high seas	Total suspension of fishing operations	
50-63 (92-117)	Very high seas	Total suspension of fishing operations	
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations	

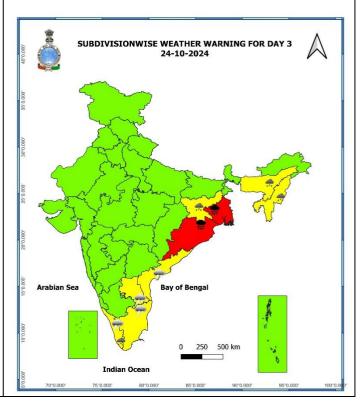
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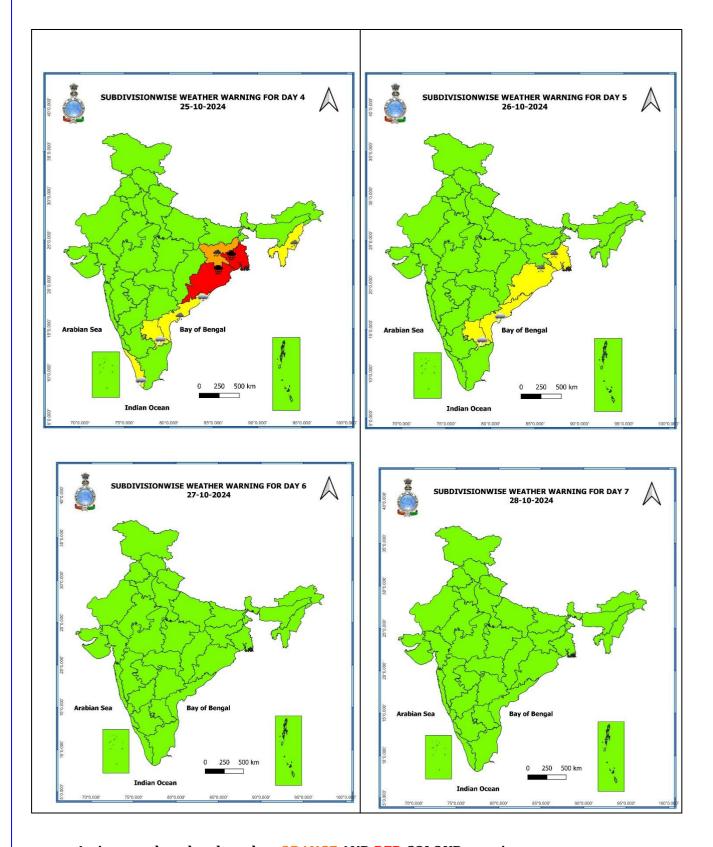




Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	>75







- 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.





