



**India Meteorological Department  
(Ministry of Earth Sciences)**

**SPECIAL MESSAGE NO. 3 (BOB/06/2024)**

**TIME OF ISSUE: 1400 HOURS IST**

**DATED: 21.10.2024**

**FROM: INDIA METEOROLOGICAL DEPARTMENT  
24643965/24699216/24623220)**

**(FAX NO.**

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**CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)**

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**Subject: Well Marked Low Pressure Area over eastcentral Bay of Bengal: Pre-Cyclone  
Watch for Odisha and West Bengal coasts**

The Low Pressure Area over the Eastcentral Bay of Bengal and adjoining north Andaman Sea moved west-northwestwards and lay as a **well marked low pressure area** over eastcentral Bay of Bengal at 1130 hours IST of today, the 21<sup>st</sup> October 2024.

It is very likely to move west-northwestwards and intensify into a depression by 22<sup>nd</sup> October morning and into a cyclonic storm by 23<sup>rd</sup> October, 2024 over eastcentral Bay of Bengal. Thereafter, it is very likely to move northwestwards and reach northwest Bay of Bengal off Odisha-West Bengal coasts by 24<sup>th</sup> October morning. Continuing to move northwestwards, it is very likely to cross north Odisha and West Bengal coasts between Puri and Sagar Island during night of 24<sup>th</sup> and early morning 25<sup>th</sup> 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
21.10.24/1130	15.0/92.0	25-35 gusting to 45	Well Marked Low Pressure Area
21.10.24/2330	15.3/91.2	30-40 gusting to 50	Well Marked Low Pressure Area
22.10.24/1130	15.6/90.3	40-50 gusting to 60	Depression
22.10.24/2330	16.1/89.4	50-60 gusting to 70	Deep Depression
23.10.24/1130	16.8/88.7	60-70 gusting to 80	Cyclonic Storm
23.10.24/2330	18.1/88.1	80-90 gusting to 100	Cyclonic Storm
24.10.24/1130	19.4/87.6	90-100 gusting to 110	Severe Cyclonic Storm
24.10.24/2330	20.7/87.0	100-110 gusting to 120	Severe Cyclonic Storm
25.10.24/1130	21.3/86.4	75-85 gusting to 95	Cyclonic Storm
25.10.24/2330	21.8/85.7	45-55 gusting 65	Depression

**(i) Rainfall Warning:**

- ❖ Light to moderate rainfall at most places with **heavy to very heavy rainfall (7-20 cm)** at isolated places is very likely over Andaman Islands on 21<sup>st</sup> 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, Khorda, Ganjam, Gajapati**, districts of Odisha on 23<sup>rd</sup> Oct. & **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall ( $\geq 21$  cm)** at isolated places over **Baleswar, Mayurbhanj, Bhadrak, Kendrapara, Jagatsingpur Kendujhar, Jajpur, Cuttack and Dhenkanal and Puri** districts of Odisha on 24<sup>th</sup> & 25<sup>th</sup> October.
- ❖ **Light to moderate rainfall at most places with heavy rainfall** at isolated places is very likely on 23<sup>rd</sup> 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, Howrah, Hooghly, Kolkata and Bankura** districts of Gangetic West Bengal on 24<sup>th</sup> & 25<sup>th</sup> October.
- ❖ Light to moderate rainfall at many places with **heavy rainfall** at isolated places is very likely over **Srikakulam, Vizianagaram and Vishakhapatnam** districts of North coastal Andhra Pradesh on 24<sup>th</sup> and 25<sup>th</sup> October.

**(ii) Wind Warning:**

**Andaman Sea:** Squally weather with wind speed reaching 35-45 gusting to 55 kmph is very likely over Andaman Sea on 21<sup>st</sup> October.

**Eastcentral Bay of Bengal:** Squally wind speed reaching 35-45 gusting to 65 kmph is very likely on 21<sup>st</sup> October, 55-65 gusting to 75 kmph by 22<sup>nd</sup> evening, 70-90 kmph gusting to 100 kmph from 23<sup>rd</sup> evening till 24<sup>th</sup> morning.

**Adjoining areas of Westcentral Bay of Bengal:** Squally wind speed reaching 45-55 gusting to 65 kmph is very likely on 23<sup>rd</sup> and 24<sup>th</sup> Oct.

**North Bay of Bengal:** Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to commence from 23<sup>rd</sup> morning. It would gradually increase becoming gale wind speed reaching 100-110 kmph gusting to 120 kmph from 24<sup>th</sup> Oct evening to 25<sup>th</sup> Oct morning and decrease thereafter.

**Along & off Odisha-west Bengal coasts:** Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to commence from 23<sup>rd</sup> Oct evening. It would gradually increase

becoming gale wind speed reaching 100-110 kmph gusting to 120 kmph from 24<sup>th</sup> Oct night till 25<sup>th</sup> Oct morning.

**(iii) Sea Condition:**

**Andaman Sea:** Sea condition is likely to be **Moderate to Rough** on **21<sup>st</sup> October**.

**Eastcentral Bay of Bengal:** Sea condition is likely to become **Rough to Very Rough** from **21<sup>st</sup> October morning to 22<sup>nd</sup> October evening**, becoming **very rough to high thereafter till 24<sup>th</sup> October morning**.

**Adjoining areas of Westcentral Bay of Bengal:** Sea condition is likely to be **Rough to Very Rough** on 23<sup>rd</sup> and 24<sup>th</sup> October.

**North Bay of Bengal:** Sea condition is likely to be **Rough to Very Rough** from **23<sup>rd</sup> morning** and would become **High** from **24<sup>th</sup> October morning till 25<sup>th</sup> Oct forenoon**.

**Along & off Odisha-west Bengal coasts:** Sea condition is likely to be **Rough to Very Rough** from **23<sup>rd</sup> evening** and would become **High** from **24<sup>th</sup> October evening to 25<sup>th</sup> Oct forenoon**.

**(iv) Fishermen Warning:**

Fishermen are advised not to venture into

- Andaman Sea till 21<sup>st</sup> October.
- Eastcentral Bay of Bengal during 21<sup>st</sup>-24<sup>th</sup> October.
- **Adjoining areas of Westcentral Bay of Bengal on 23<sup>rd</sup> and 24<sup>th</sup> Oct.**
- **North Bay of Bengal** and along & off Odisha, West Bengal and Bangladesh coasts during 23<sup>rd</sup> to 25<sup>th</sup> October.

Fishermen out at sea are advised to return to coasts by 21<sup>st</sup> 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, Howrah, Hooghly, Kolkata, & Bankura)**

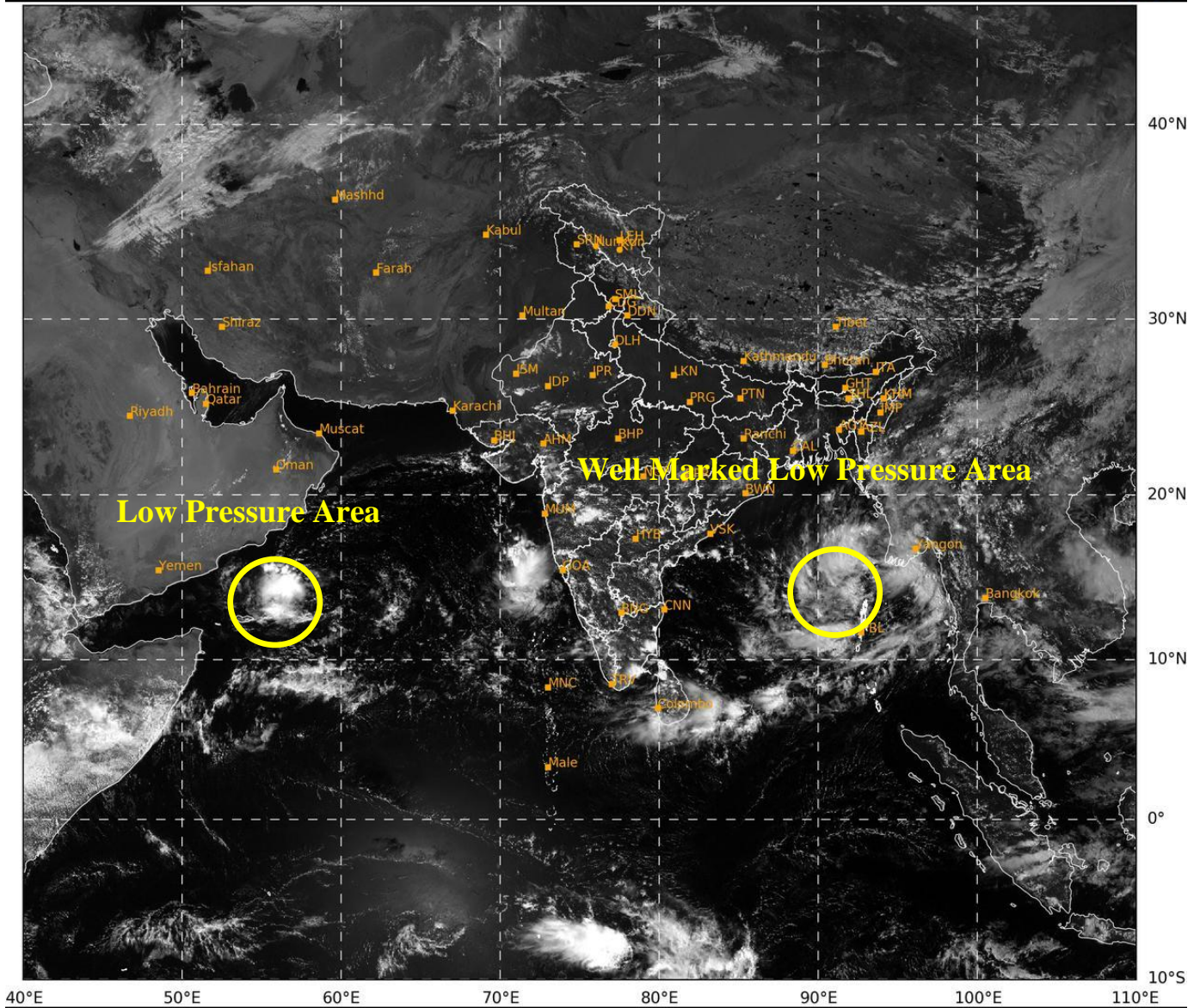
- Major damage to thatched houses/ huts. Roof tops may blow off. Unattached metal sheets may fly.
- Minor damage to power and communication lines.
- Major damage to Kutchha and some damage to Pucca roads. Flooding of escape routes.
- Possibilities of damage to vulnerable structure. Breaking of tree branches and uprooting of trees.
- Moderate damage to banana and papaya trees. Large dead limbs blown from trees.
- Damage to horticulture and standing crops in some areas 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, Howrah, Hooghly, Kolkata & Bankura)**
- Fishermen are advised not to venture into
    - ✓ Andaman Sea till 21<sup>st</sup> October.
    - ✓ Eastcentral Bay of Bengal during 21<sup>st</sup>-24<sup>th</sup> October.
    - ✓ **Adjoining areas of Westcentral Bay of Bengal on 23<sup>rd</sup> and 24<sup>th</sup> Oct.**
    - ✓ **North Bay of Bengal** and along & off Odisha-West Bengal coasts during 23<sup>rd</sup> to 25<sup>th</sup> October morning.
  - Fishermen out at sea are advised to return to coasts by 21<sup>st</sup> October.
  - Total suspension of fishing operations during 22<sup>nd</sup> to 25<sup>th</sup> Oct over Central and North Bay of Bengal.
  - 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 Andaman & Nicobar Islands.
  - 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 bulletin will be issued at 1130 hours IST of tomorrow, the 22<sup>nd</sup> October, 2024.**

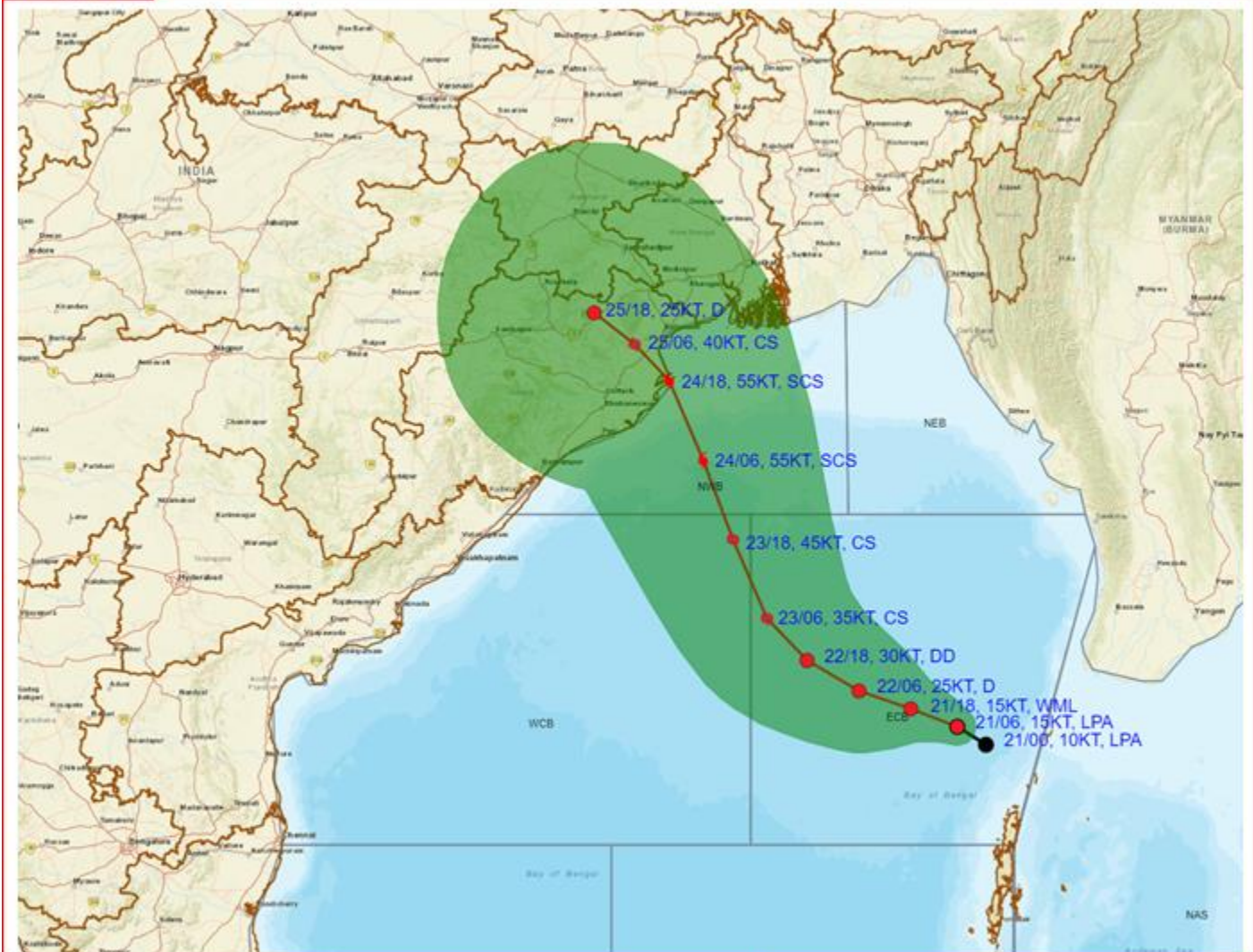
**(Monica Sharma)**  
**Scientist-D, RSMC & IMD, New Delhi**

*Copy to: ACWC Kolkata/ACWC Chennai/CWC Bhubaneswar/CWC Vishakhapatnam/Meteorological Centre Port Blair*





**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF LOW-PRESSURE AREA OVER EASTCENTRAL BAY OF BENGAL AND ADJOINING NORTH ANDAMAN SEA BASED ON 0600 UTC (1130 Hrs. IST) OF 21ST OCTOBER 2024**



DATE/TIME IN UTC

IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

1KT=1.85 KMPH

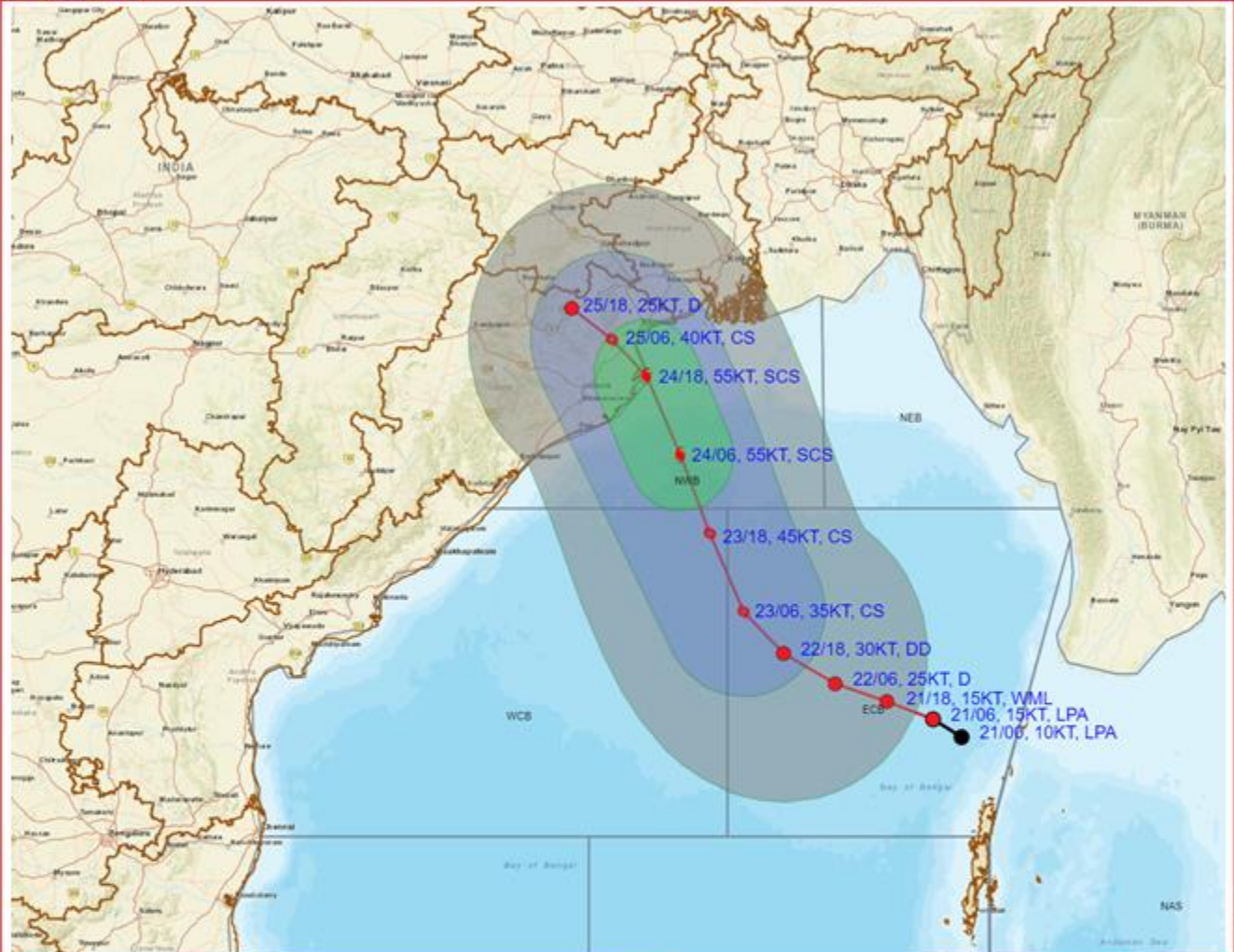
● LESS THAN 34 KT

☞ 34-47 KT

☞ ≥ 48 KT



**OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF LOW-PRESSURE AREA OVER EASTCENTRAL BAY OF BENGAL AND ADJOINING NORTH ANDAMAN SEA BASED ON 0600 UTC (1130 Hrs. IST) OF 21ST OCTOBER 2024**



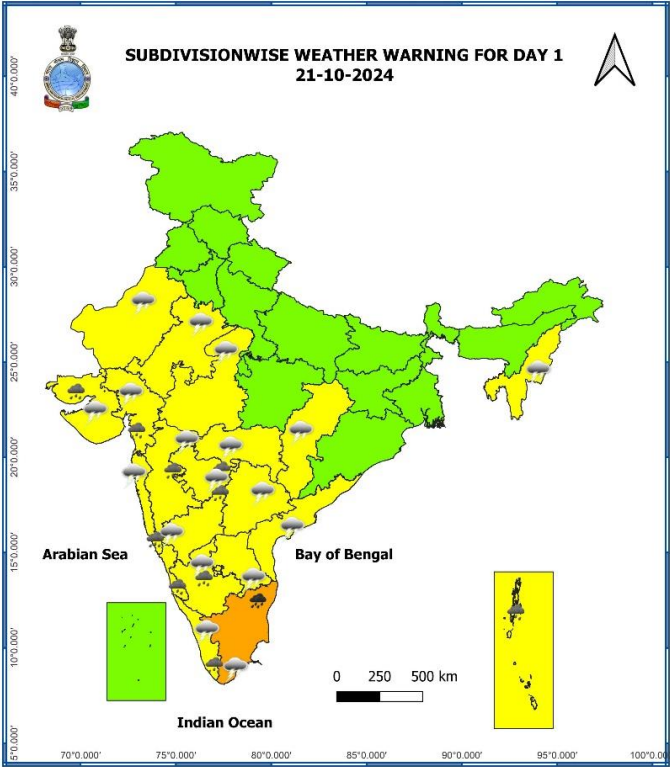
DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)  
 SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

1KT=1.85 KMPH

- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- ▲ CONE OF UNCERTAINTY
- AREA OF MAXIMUM SUSTAINED WIND SPEED:
- 28-33 KT (52-61 KMPH)
- 34-49 KT (62-91 KMPH)
- 50-63 KT (92-117 KMPH)
- ≥ 64 KT (≥118 KMPH)

**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



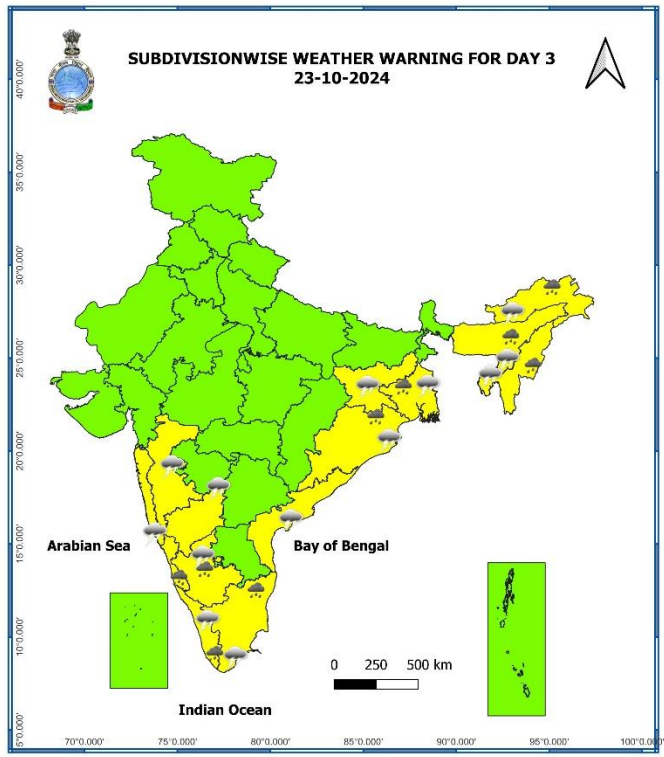
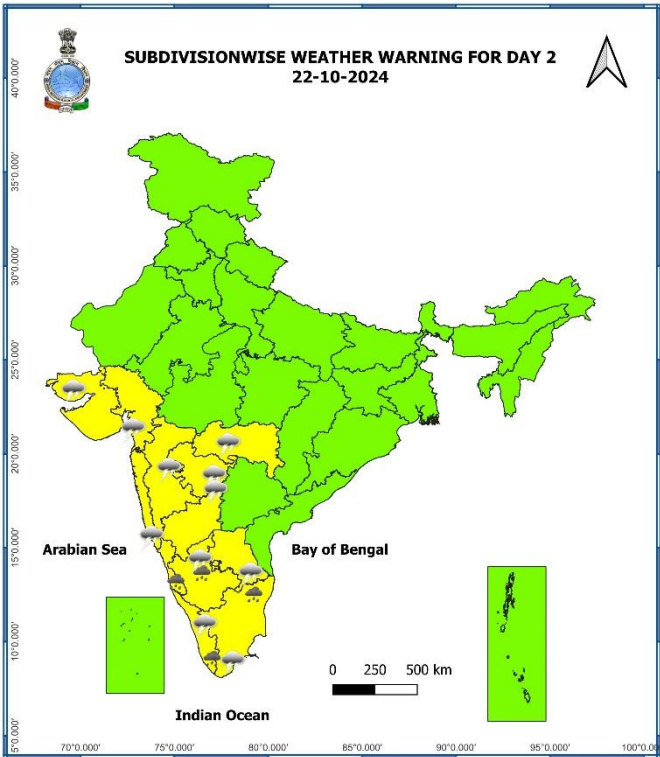
- Heavy Rain
- Very Heavy Rain
- Extremely Heavy Rain
- Thunder & Lightning

**COLOUR CODED WARNING**

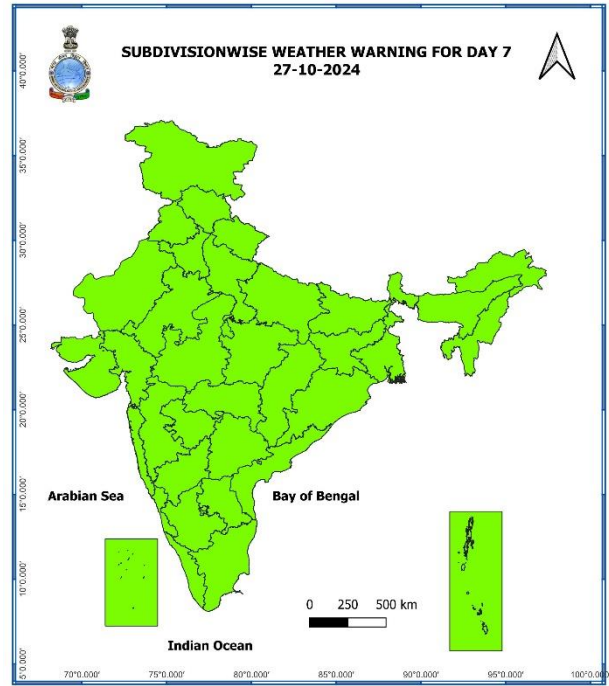
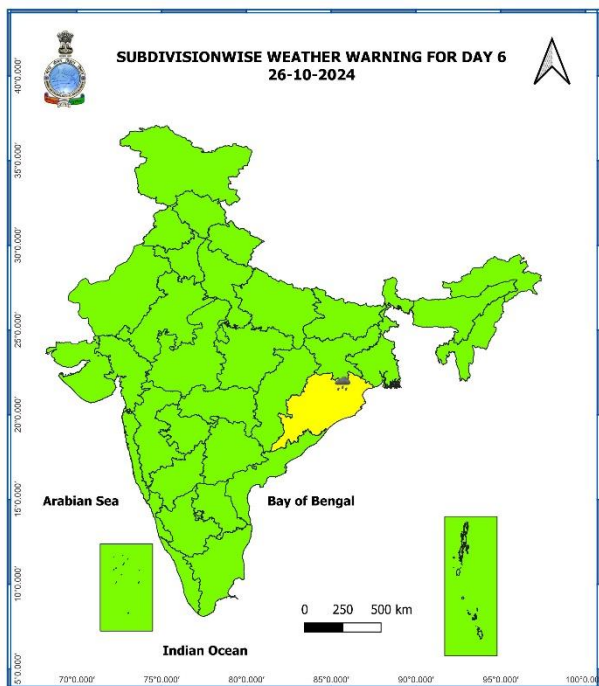
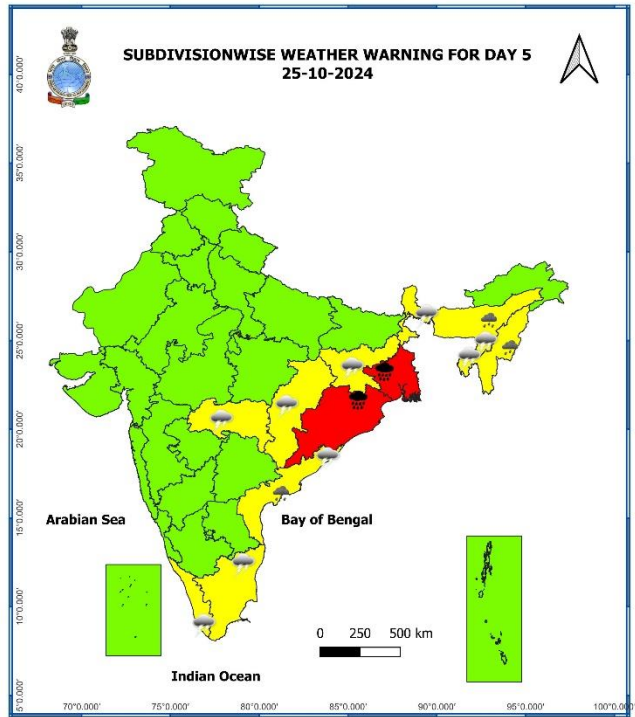
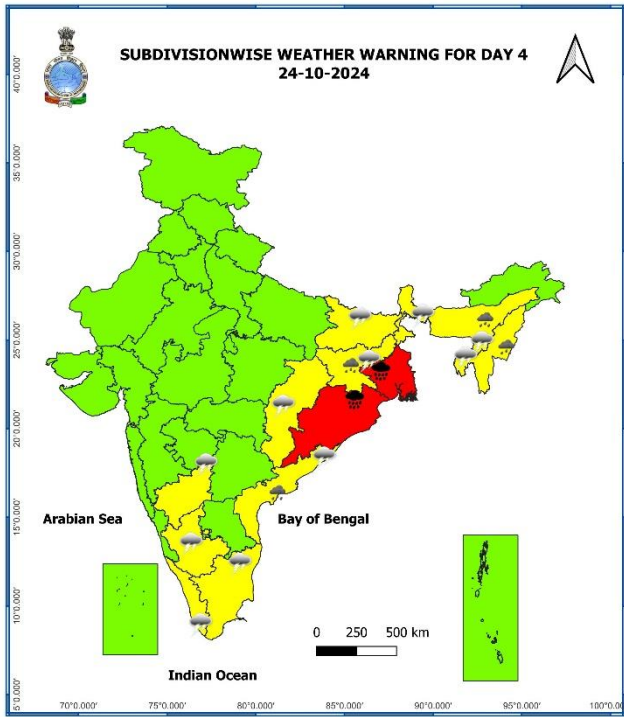
- No Warning (No Action)
- Watch (Be Aware)
- Alert (Be Prepared To Take Action)
- Warning (Take Action)

**Probabilistic Forecast**

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







- 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.

## Fishermen Warning Graphics

