



Government of Odisha
Office of Special Relief Commissioner
No. 5106 /R&DM (DM) Date: 22.10.2024

MESSAGE

TO: ALL COLLECTORS

FROM: SPECIAL RELIEF COMMISSIONER & ADDITIONAL CHIEF SECRETARY TO GOVT.

INFO: PRINCIPAL SECRETARY TO GOVT., HOUSING & URBAN DEVELOPMENT DEPT./ PR & DW DEPT./ FISHERIES & ARD DEPT./ SECRETARY TO GOVT., AGRICULTURE & FE DEPT., / DIRECTOR, AGRICULTURE & FP/ DIRECTOR, MUNICIPAL ADMINISTRATION / ALL RDCs/ EXECUTIVE DIRECTOR, OSDMA (.)

DEPRESSION OVER EASTCENTRAL BAY OF BENGAL (**PRE-CYCLONE WATCH FOR ODISHA COASTS**)

1. AS PER **SPECIAL WEATHER BULLETION** ISSUED BY IMD TODAY (22.10.2024), YESTERDAY'S WELL MARKED LOW PRESSURE AREA OVER EASTCENTRAL BAY OF BENGAL MOVED WESTNORTHWESTWARDS, CONCENTRATED INTO A DEPRESSION AND LAY CENTRED AT 0530 HRS IST OF TODAY, THE 22ND OCTOBER, OVER THE SAME REGION NEAR LATITUDE 15.4° N AND LONGITUDE 91.2°E, ABOUT 730 KM SOUTHEAST OF PARADIP (ODISHA), 770 KM SOUTH-SOUTHEAST OF SAGAR ISLAND (WEST BENGAL) AND 740 KM SOUTH-SOUTHEAST OF KHEPUPARA (BANGLADESH) (.)
2. IT IS VERY LIKELY TO MOVE WEST-NORTH-WESTWARDS AND INTENSIFY INTO A CYCLONIC STORM BY 23RD OCTOBER, 2024 OVER EAST CENTRAL BAY OF BENGAL. THEREAFTER, CONTINUING TO MOVE NORTH-WESTWARDS, 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 AND MORNING 25TH OCTOBER, 2024 AS A SEVERE CYCLONIC STORM WITH A WIND SPEED OF 100-110 KMPH GUSTING 120 KMPH (.)

WEATHER WARNING:

DAY -1 VALID FROM 0830 HRS IST OF 23.10.2024: **NIL**

DAY -2 VALID FROM 0830 HRS IST OF 23.10.2024 TO 0830 HRS IST OF 24.10.2024 :

YELLOW WARNING: HEAVY RAINFALL (7 TO 11CM)) VERY LIKELY TO OCCUR AT ISOLATED PLACES IN THE DISTRICTS OF **BALASORE, JAJPUR, BHADRAK, KENDRAPADA, KENDRAPADA, JAGATSINGHPUR** AND **PURI** (.)

DAY -3: VALID FROM 0830 HRS IST OF 24.10.2024 TO 0830 HRS IST OF 25.10.2024

RED WARNING (TAKE ACTION) SCATTERED HEAVY TO VERY HEAVY RAINFALL (7 TO 20CM) WITH ISOLATED EXTREMELY HEAVY RAINFALL (>20CM) FALLS VERY LIKELY TO OCCUR IN THE DISTRICTS OF **MAYURBHANJ, CUTTACK, JAJPUR, BALASORE, BHADRAK, KENDRAPADA, AND JAGATSINGHPUR (.)**

ORANGE WARNING: HEAVY TO VERY HEAVY RAINFALL (7 TO 20CM) IS VERY LIKELY TO OCCUR AT ONE OR TWO PLACES OVER THE DISTRICTS OF **MAYURBHANJ, KEONJHAR, ANGUL, DHENKANAL, CUTTACK, JAGATSINGHPUR, JAJPUR AND KENDRAPARA (.)**

YELLOW WARNING: HEAVY RAINFALL (7 TO 11CM) VERY LIKELY TO OCCUR AT ISOLATED PLACES IN THE DISTRICTS OF **SUNDARGARH, JHARSUGUDA, DEOGARH, SAMBALPUR, SONEPUR, BOUDH, KANDHAMAL AND GAJAPATI (.)**

DAY -4: VALID FROM 0830 HRS IST OF 25.10.2024 TO 0830 HRS IST OF 26.10.2024

RED WARNING (TAKE ACTION) SCATTERED HEAVY TO VERY HEAVY RAINFALL (7 TO 20CM) WITH ISOLATED EXTREMELY HEAVY RAINFALL (>20CM) VERY LIKELY TO OCCUR AT ISOLATED PLACES IN THE DISTRICTS OF **MAYURBHANJ, KEONJHAR, BALASORE AND BHADRAK (.)**

ORANGE WARNING: HEAVY TO VERY HEAVY RAINFALL (7 TO 20CM) VERY LIKELY TO OCCUR AT ISOLATED PLACES IN THE DISTRICTS OF **SUNDARGARH, DEOGARH, ANGUL, DHENKANAL, JAJPUR, CUTTACK, KENDRAPADA AND JAGATSINGHPUR (.)**

YELLOW WARNING: HEAVY RAINFALL (7 TO 11CM) VERY LIKELY TO OCCUR AT ISOLATED PLACES IN THE DISTRICTS OF **BARGARH, JHARSUGUDA, SAMBALPUR, SONEPUR, BOUDH, NAYAGARH, KHORDHA, PURI AND GANJAM (.)**

DAY -5: VALID FROM 0830 HRS IST OF 26.10.2024 TO 0830 HRS IST OF 27.10.2024

YELLOW WARNING: HEAVY RAINFALL (7 TO 11CM) VERY LIKELY TO OCCUR AT ISOLATED PLACES IN THE DISTRICTS OF **BALASORE, MAYURBHANJ, KEONJHAR AND SUNDARGARH (.)**

Fishermen Warning:

FISHERMEN ARE ADVISED NOT TO VENTURE INTO EASTCENTRAL BAY OF BENGAL DURING 22ND-24TH OCTOBER. ADJOINING AREAS OF WESTCENTRAL BAY OF BENGAL ON 23RD AND 24TH OCT. NORTH BAY OF BENGAL AND ALONG & OFF ODISHA DURING 23RD TO 25TH OCTOBER. FISHERMEN OUT AT SEA ARE ADVISED TO RETURN TO COASTS BY 22ND OCT.

Port Warning:

ADVISE TO HOIST DISTANT CAUTIONARY SIGNAL NO.1 (DC-1) AT ALL PORTS OF ODISHA
IMD HAS ISSUED RED, ORANGE & YELLOW WARNING IN RESPECT OF THE ABOVE DISTRICTS (.)
COPY OF THE IMD'S **SPECIAL BULLETIN** IS ATTACHED, WHICH MAY BE REFERRED TO (.)

ADVISORY:

- DISTRICTS UNDER RED, ORANGE & YELLOW WARNING TO REMAIN IN READINESS TO MEET ANY EVENTUALITY PARTICULARLY WATER LOGGING/ LANDSLIDE IN HILLY AREAS (.)
- CONTINUOUS VIGIL OF LOWLYING AREAS. DEWATERING WHEREVER REQUIRED INCLUDING URBAN AREAS MAY BE TAKEN UP (.)
- AVOID MOVEMENT IN AFFECTED AREAS, STAY IN SAFE PLACE (.)
- WATER LOGGING IN UNDERPASS ROAD AND OCCASIONAL REDUCTION OF VISIBILITY CAUSING TRAFFIC CONGESTION IN URBAN AREAS (.)
- POSTPONED FERTILIZER/CHEMICALS APPLICATION IN LIVESTOCK IN SAFE PLACE (.)
- ADVICE FOR FISHERMEN TO BE STRICTLY IMPLEMENTED (.)
- SITUATION MAY BE CLOSELY MONITORED (.)


22/10/24

ADDITIONAL SPECIAL RELIEF COMMISSIONER

Special Weather Bulletin

Date: 22nd Oct 2024
Time: 1100 Hrs IST

SUB: Depression over eastcentral Bay of Bengal (Pre-Cyclone Watch for Odisha coasts)

Yesterday's well marked low pressure area over Eastcentral Bay of Bengal moved west-northwestwards, concentrated into a **depression** and lay centred at 0530 hrs IST of today, the 22nd October, over the same region near latitude 15.4° N and longitude 91.2°E, about **730 km southeast of Paradip (Odisha)**, 770 km south-southeast of Sagar Island (West Bengal) and 740 km south-southeast of Khepupara (Bangladesh).

It is very likely to move west-north-westwards and intensify into a **cyclonic storm by 23rd October, 2024** over east central Bay of Bengal. Thereafter, continuing to move north-westwards, 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 and morning 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
22.10.24/0530	15.4/91.2	35-45 gusting to 55	Depression
22.10.24/1130	15.6/90.7	40-50 gusting to 60	Depression
22.10.24/1730	15.8/90.2	45-55 gusting to 65	Depression
22.10.24/2330	16.1/89.7	50-60 gusting to 70	Deep Depression
23.10.24/0530	16.5/89.2	55-65 gusting to 75	Deep Depression
23.10.24/1730	17.4/88.4	65-75 gusting to 85	Cyclonic Storm
24.10.24/0530	18.7/87.8	80-90 gusting to 100	Cyclonic Storm
24.10.24/1730	20.0/87.5	95-105 gusting to 115	Severe Cyclonic Storm
25.10.24/0530	21.0/86.8	100-110 gusting to 120	Severe Cyclonic Storm
25.10.24/1730	21.5/85.8	70-80 gusting 90	Cyclonic Storm

Forecast in association with anticipated system:

Day -1: (Valid up to 0830 Hrs IST of 23.10.24)

Light to moderate rain/thundershower very likely to occur at one or two places in the districts of Koraput, Malkangiri & dry weather very likely to prevail in the rest districts of Odisha.

Day -2 : (Valid from 0830 Hrs IST of 23.10.24 to 0830 Hrs IST of 24.10.24)

Light to moderate rain/thundershower very likely to occur at most places over the districts of north Odisha and at many places over the districts of south Odisha, north interior Odisha and at one or two places over the districts of south interior Odisha.

Day -3 : (Valid from 0830 Hrs IST of 24.10.24 to 0830 Hrs IST of 25.10.24)

Light to moderate rain/thundershower very likely to occur at most places in the districts of Odisha & at a few places in the districts of Interior Odisha.

Day -4 : (Valid from 0830 Hrs IST of 25.10.24 to 0830 Hrs IST of 26.10.24)

Light to moderate rain/thundershower very likely to occur at most places in the districts of Odisha.

Day -5 : (Valid from 0830 Hrs IST of 25.10.24 to 0830 Hrs IST of 26.10.24)

Light to moderate rain/thundershower very likely to occur at a few places in the districts of north Odisha and at one or two places in the districts of South Odisha.

Heavy rainfall warning for next five days as follows:

Days	Heavy Rainfall Warning
Day-1: (Valid up to 0830 Hrs IST of 23.10.24.)	NIL
Day-2: (Valid from 0830 Hrs IST of 23.10.24 to 0830 Hrs IST of 24.10.24.)	Yellow Warning (Be Aware) Heavy rainfall (7 to 11cm) very likely to occur at isolated places in the districts of Balasore, Jajpur, Bhadrak, Kendrapada, Kendrapada, Jagatsinghpur, Puri.
Day-3: (Valid from 0830 Hrs IST of 24.10.24 to 0830 Hrs IST of 25.10.24.)	Red warning (Take Action) Scattered heavy to very heavy rainfall (7 to 20cm) with isolated extremely heavy rainfall (>20cm) falls very likely to occur in the districts of Mayurbhanj, Cuttack, Jajpur, Balasore, Bhadrak, Kendrapada, and Jagatsinghpur. Orange warning (Be Prepared to take action) Heavy to very heavy rainfall (7 to 20cm) very likely to occur at isolated places in the districts of Keonjhar, Angul, Dhenkanal, Nayagarh, Khordha Puri, Ganjam. Yellow Warning (Be Aware) Heavy rainfall (7 to 11cm) very likely to occur at isolated places in the districts of Sundargarh, Jharsuguda, Deogarh, Sambalpur, Sonepur, Boudh, Kandhamal, Gajapati.
Day-4: (Valid from 0830 Hrs IST of 25.10.24 to 0830 Hrs IST of 26.10.24.)	Red warning (Take Action) Scattered heavy to very heavy falls (7 to 20cm) with isolated extremely heavy rainfall (>20cm) very likely to occur at isolated places in the districts of Mayurbhanj, Keonjhar, Balasore, Bhadrak . Orange warning (Be Prepared to take action) Heavy to very heavy rainfall (7 to 20cm) very likely to occur at isolated places in the districts of Sundargarh, Deogarh, Angul, Dhenkanal, Jajpur, Cuttack, Kendrapada, Jagatsinghpur. Yellow Warning (Be Aware) Heavy rainfall (7 to 11cm) very likely to occur at isolated places in the districts of Bargarh, Jharsuguda, Sambalpur, Sonepur, Boudh, Nayagarh, Khordha, Puri, Ganjam.
Day-5: (Valid from 0830 Hrs IST of 26.10.24 to 0830 Hrs IST of 27.10.24.)	Yellow Warning (Be Aware) Heavy rainfall (7 to 11cm) very likely to occur at isolated places in the districts of Balasore, Mayurbhanj, Keonjhar and Sundargarh.

N.B.: Wind Warning for land area of Odisha state is depicted in the picture attached map

Wind Warning for sea area & Sea conditions:

Sea Area	Wind Warning	Sea Conditions
Eastcentral Bay of Bengal	Squally wind speed reaching 40-50 gusting to 60 kmph is very likely on 22nd Oct, 55-65 gusting to 75 kmph by 22nd night, 70-90 kmph gusting to 100 kmph from 23rd evening till 24th morning.	SEA CONDITION IS LIKELY TO BE ROUGH TO VERY ROUGH ON 22 ND OCTOBER, BECOMING VERY ROUGH TO HIGH FROM 23 RD MORNING TILL 24 TH OCTOBER MORNING
West central Bay of Bengal	Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to commence from 22nd evening, 70-90 gusting to 65 kmph from 23rd morning to 24th afternoon.	SEA CONDITION IS LIKELY TO BE ROUGH TO VERY ROUGH ON 23 RD AND 24 TH OCTOBER.
Northwest Bay of Bengal	Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to commence from 23rd morning. It would gradually increase becoming gale wind speed reaching 70-90kmph 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.	SEA CONDITION IS LIKELY TO BE ROUGH TO VERY ROUGH FROM 23 RD MORNING AND WOULD BECOME HIGH TO VERY HIGH FROM 23 RD NIGHT TILL 25 TH MORNING AND IMPROVE GRADUALLY THEREAFTER.

Northeast Bay of Bengal	Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to commence from 23rd night till 25th morning and decrease gradually thereafter.	SEA CONDITION IS LIKELY TO BE ROUGH TO VERY ROUGH FROM 23 RD NIGHT TILL 25 TH MORNING AND IMPROVE GRADUALLY THEREAFTER.
Along & off Odisha 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 100-110 kmph gusting to 120 kmph from 24th Oct evening till 25th Oct morning and decrease gradually thereafter.	SEA CONDITION IS LIKELY TO BE ROUGH TO VERY ROUGH FROM 23 RD EVENING AND WOULD BECOME HIGH TO VERY HIGH FROM 24 TH OCTOBER EVENING TO 25 TH OCT FORENOON AND IMPROVE GRADUALLY THEREAFTER.

Fishermen Warning:

Fishermen are advised not to venture into

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

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

Port Warning: Advise to hoist Distant Cautionary Signal No.1 (DC-1) at all ports of Odisha

(v) Impact Expected over districts of Odisha (Balasore, Bhadrak, Kendrapara, Jagatsinghpur, Puri, Khorda, Mayurbhanj, Kendujhar, Jajpur, Cuttack, Dhenkanal)

- 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 Kutcha 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 (Balasore, Bhadrak, Kendrapara, Jagatsinghpur, Puri, Khorda, Mayurbhanj, Kendujhar, Jajpur, Cuttack, Dhenkanal)**
- TOTAL SUSPENSION OF FISHING OPERATIONS DURING 22ND TO 25TH 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 1400 hrs IST of 22nd Oct 2024.

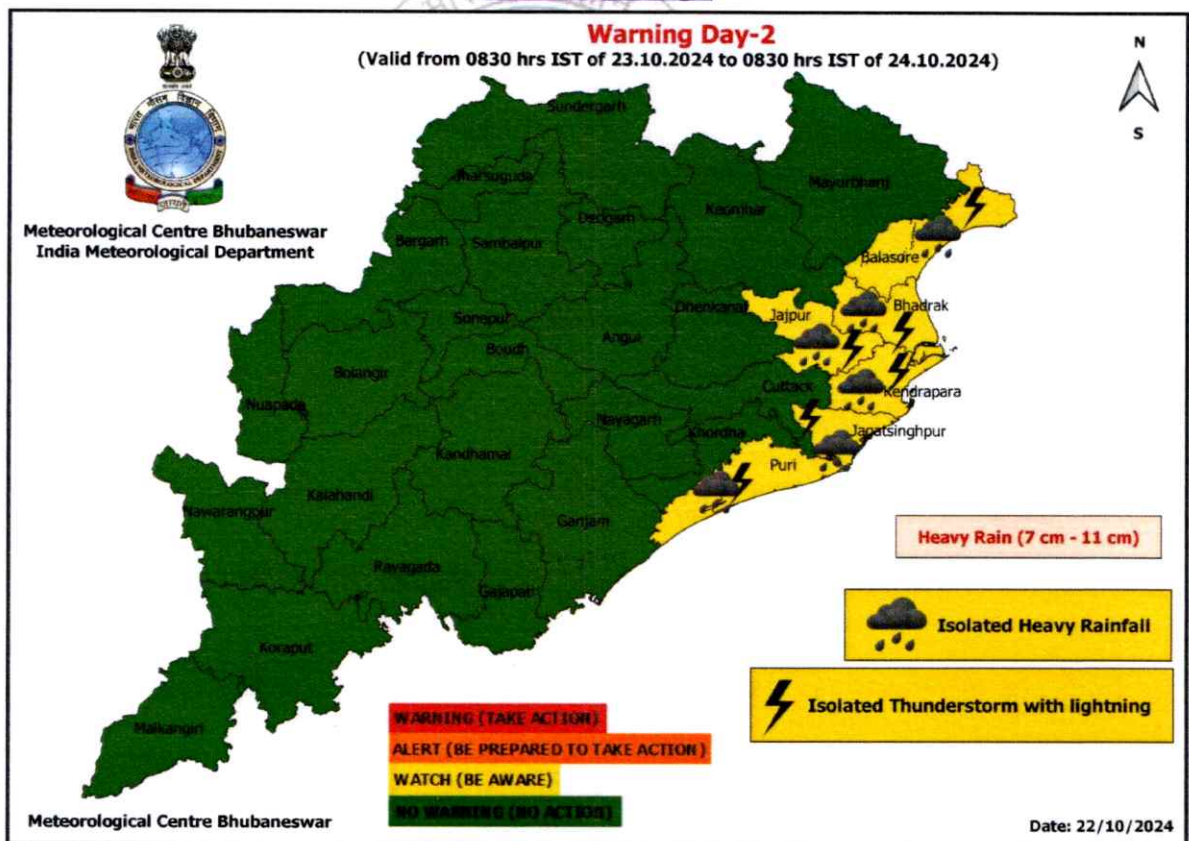
N.B: 1. Spatial rainfall distribution: Isolated :=< 25%, A few: 26-50%, Many: 51-75%, Most: 76-100%, Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, extremely heavy rain: 204.5 or more. Probabilistic forecast: Unlikely =< 25%, likely 26-50%, Very likely 51-75%, Most likely > 7

DR. MANORAMA MOHANTY
HEAD & SC-F, MC BHUBANESWAR

To

1. Chief Secretary, Govt. Of Odisha.
2. Principal Secretary, Revenue & Disaster Management, Govt. Of Odisha.
3. Principal Secretary, Dept. Of Agriculture, Govt. Of Odisha.
4. Principal Secretary, Department Of Water Resources, Govt. Of Odisha.
5. Special Relief Commissioner (SRC), Govt. Of Odisha Bhubaneswar.
6. Revenue Secretary, Govt. Of Odisha, Bhubaneswar.
7. M.D., OSDMA, Govt. Of Odisha, Bhubaneswar.
8. RDC, Central Division/ Southern Division/ Northern Division.
9. Air Cuttack / Doordarshan.

Warning Maps

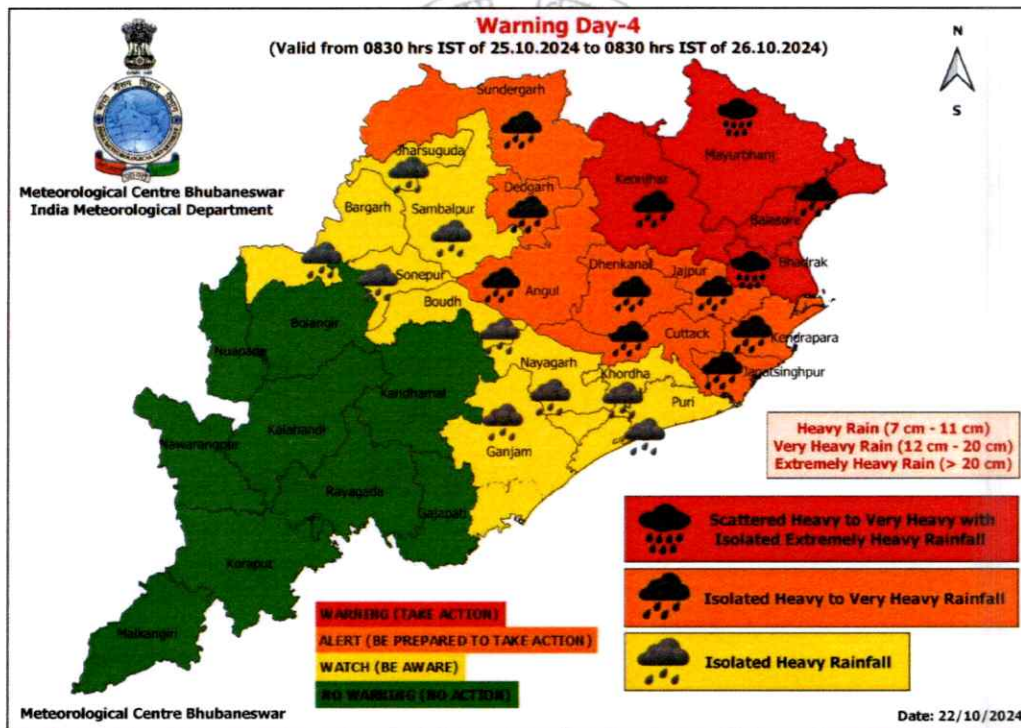
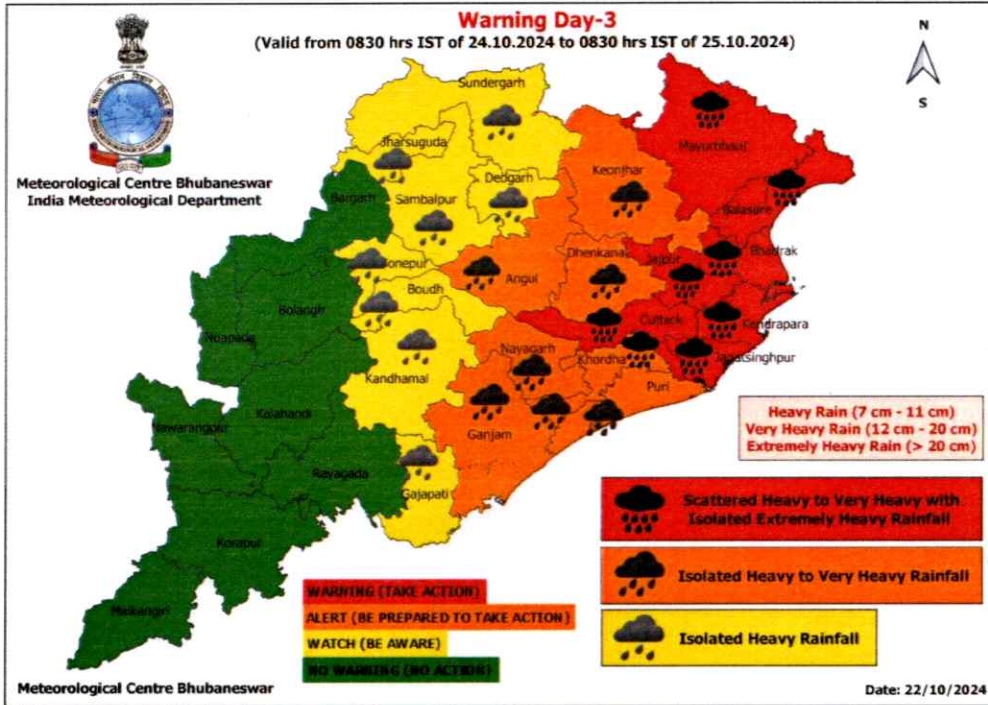


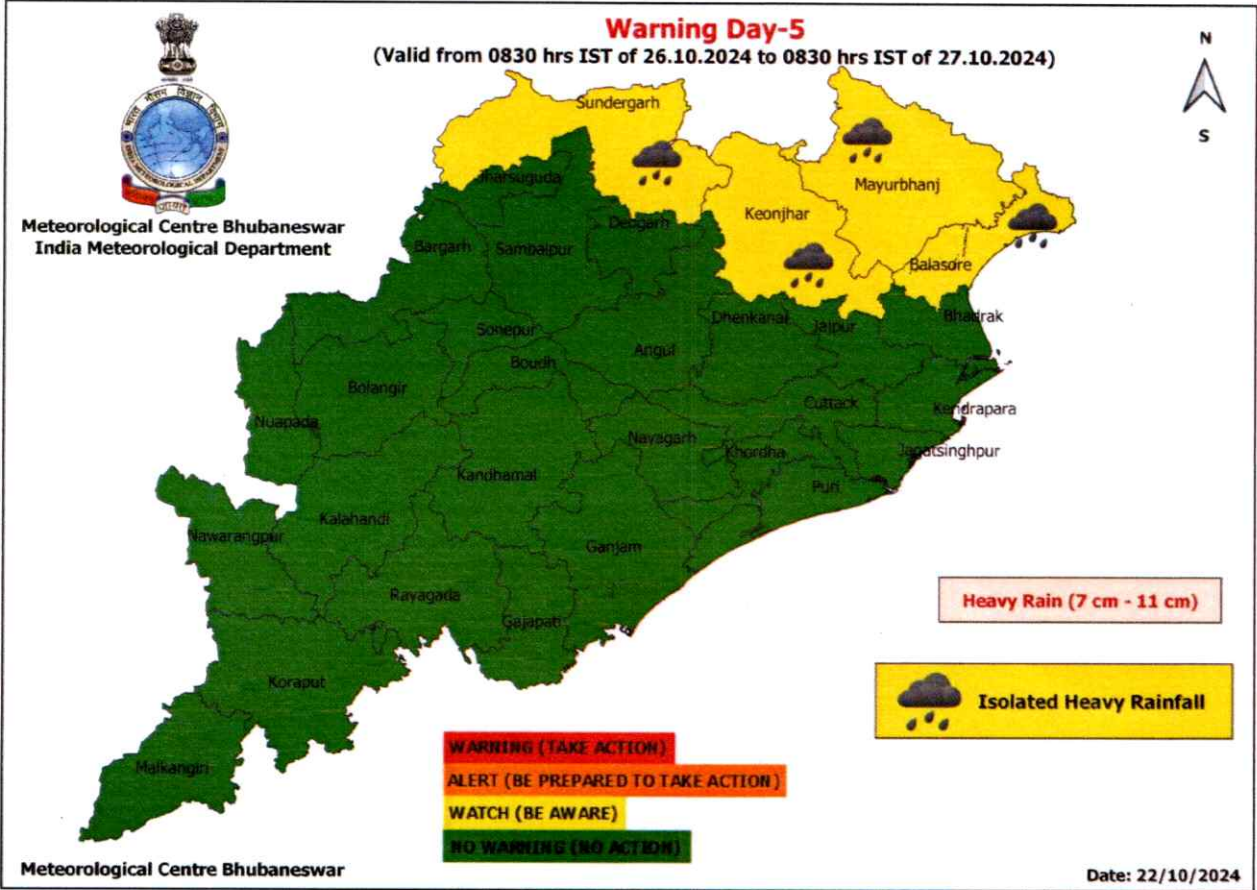
भारतसरकार
 पृथ्वीविज्ञानमंत्रालय
 भारतमौसमविज्ञानविभाग
 मौसमविज्ञानकेंद्र
 भुवनेश्वर, ओडिशा-751020



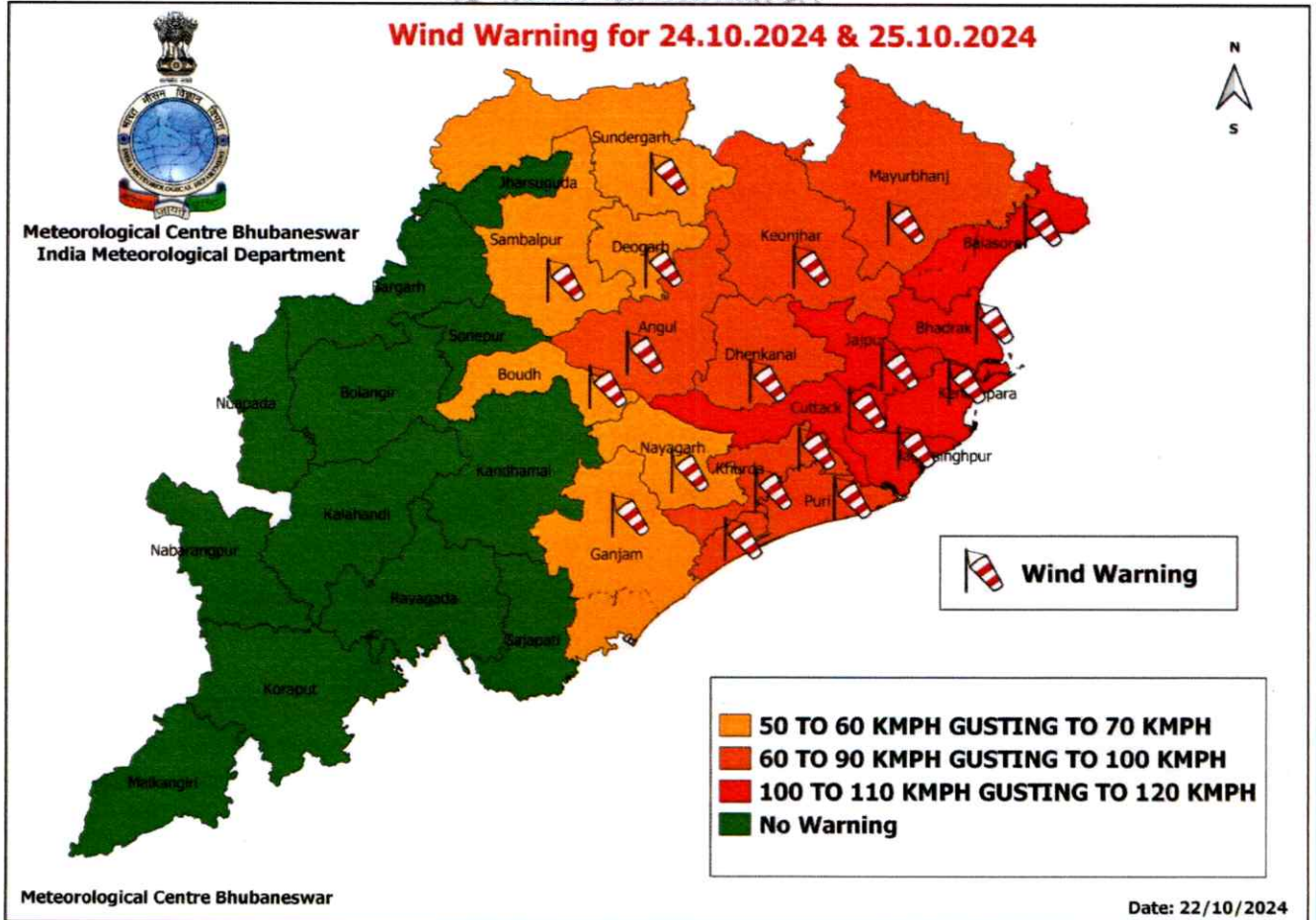
GOVERNMENT OF INDIA
 MINISTRY OF EARTH SCIENCES
 INDIA METEOROLOGICAL DEPARTMENT
 METEOROLOGICAL CENTRE
 BHUBANESWAR, ODISHA-751020

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 ଭୁବନେଶ୍ୱର, ଓଡ଼ିଶା - ୭୫୧୦୨୦





DISTRICT LEVEL WIND WARNING

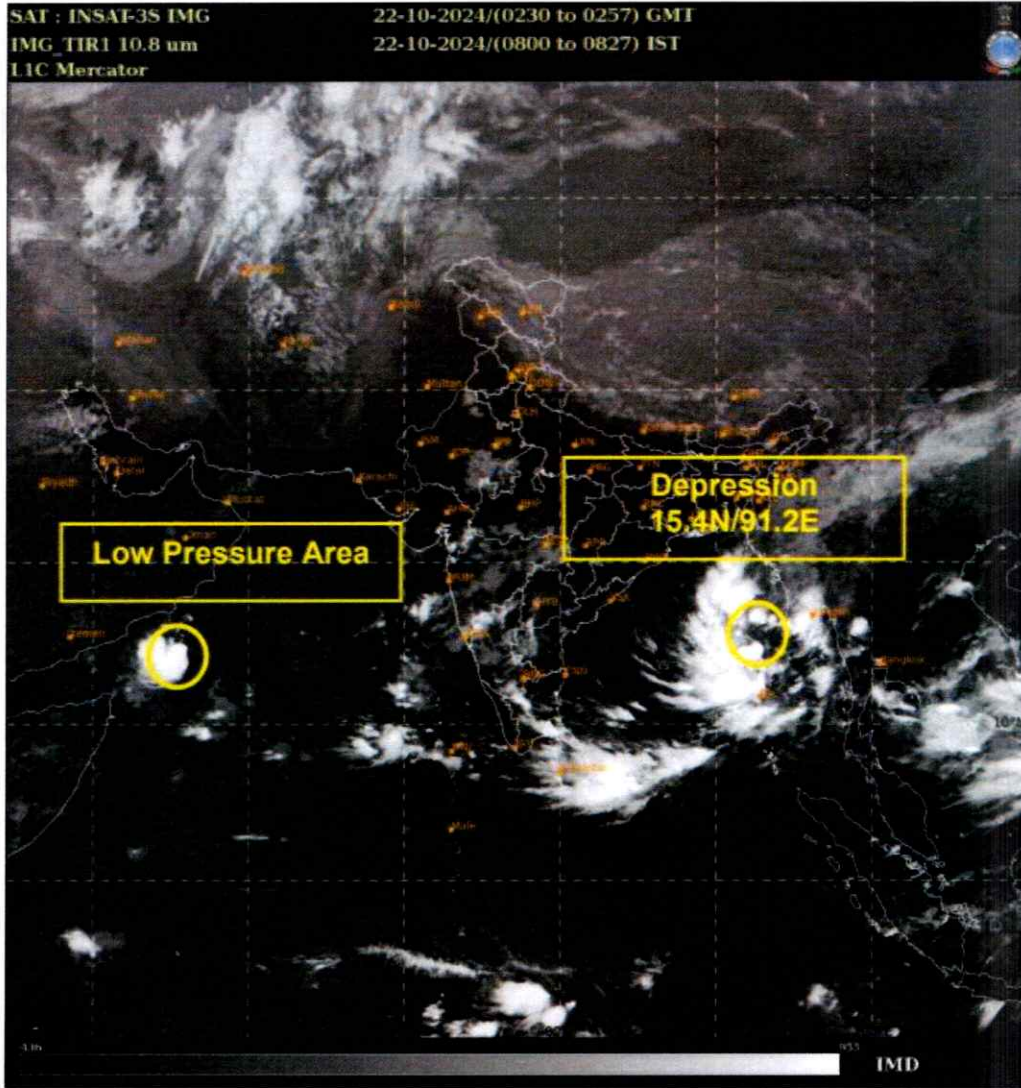


भारतसरकार
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भुवनेश्वर, ओडिशा-751020



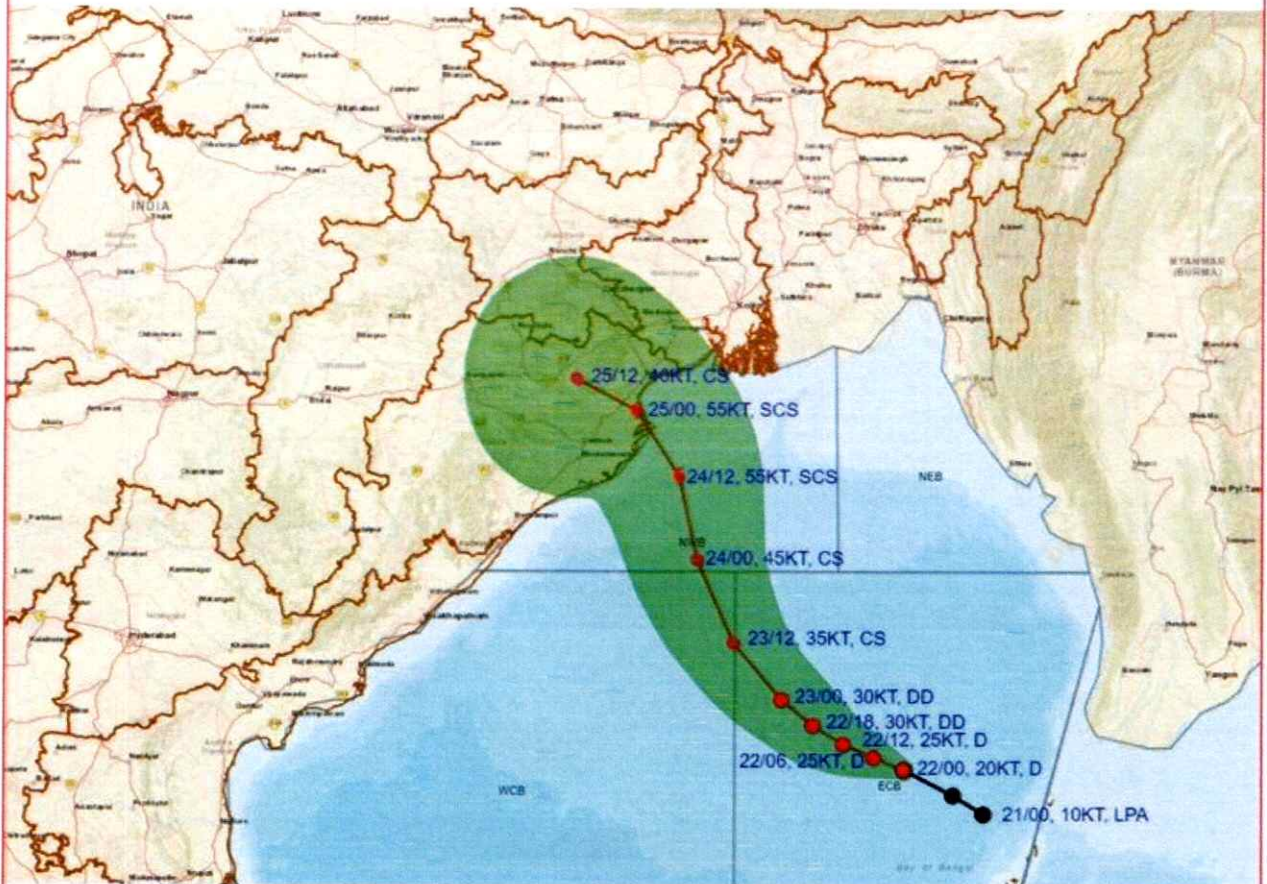
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ଭୁବନେଶ୍ୱର, ଓଡ଼ିଶା - ୭୫୧୦୨୦





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 0000 UTC (0530 Hrs. IST) OF 22ND OCTOBER 2024



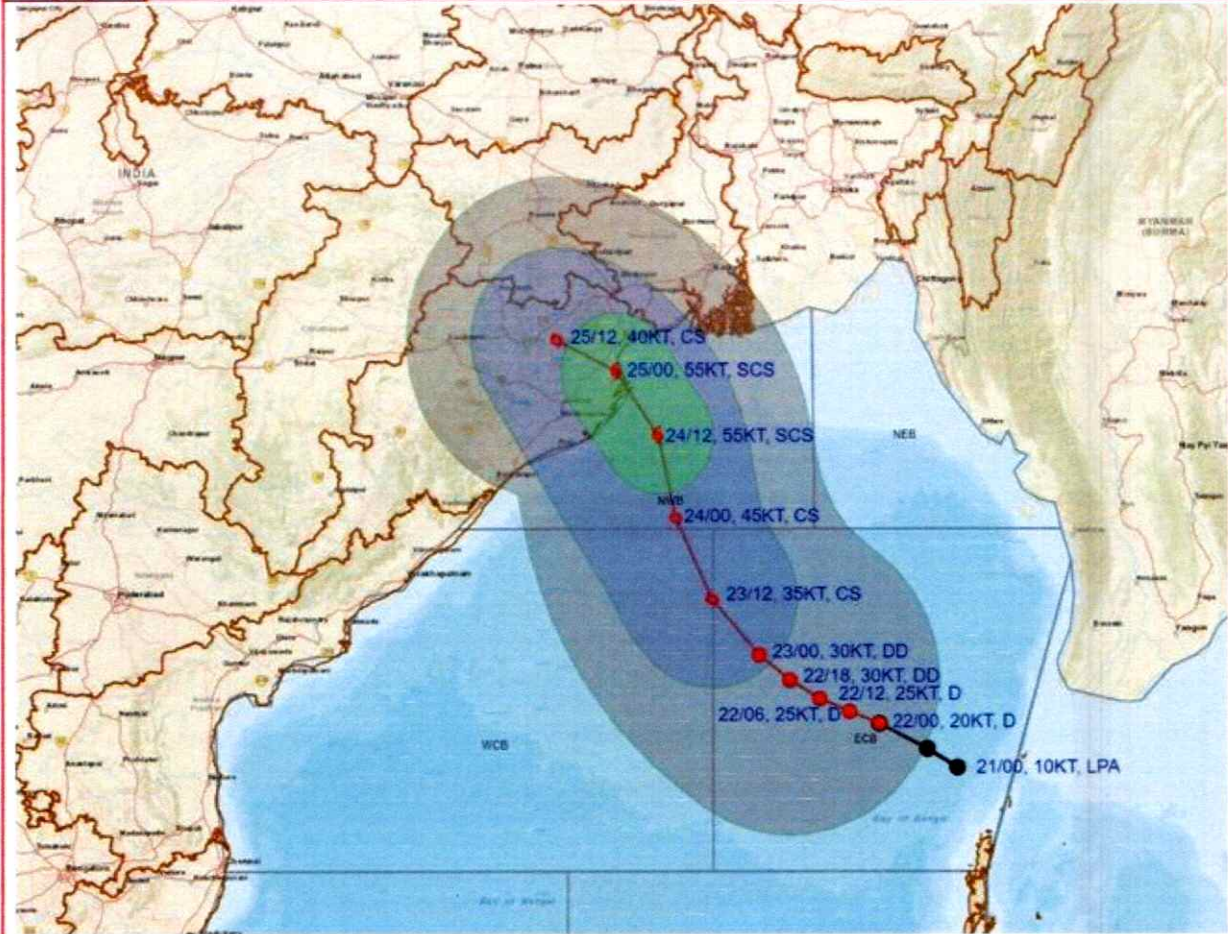
DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119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



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 0000 UTC (0530 Hrs. IST) OF 22ND 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

Fishermen Warning Graphics

