

GLOBAL MARITIME 250900 IST

DATE/TIME OF ISSUE: 25-10-2024/03300 UTC

SPL GMDSS BULLETIN NO-12 250330

ISSUED BY: INDIA METEOROLOGICAL DEPARTMENT, NEW DELHI

HIGH SEA FORECAST FOR MET. AREA VIII (N)

AREA OF COVERAGE: AREA OF THE INDIAN OCEAN ENCLOSED BY LINES FROM THE INDO-PAKISTAN FRONTIER AT 23°45'N 68 DEG E TO 00 DEG N 6 DEG E, THENCE TO CAPE GARDAFUI; THE EAST AFRICAN COAST SOUTH TO THE EQUATOR, THENCE TO 95 DEG E, TO 6 DEG N, THENCE NORTH EASTWARDS TO MYANMAR/THAIL FRONTIER IN 10 DEG N 98 DEG 30'E NORTHWARDS COVERING ENTIRE BAY OF BENGAL.

VALID FROM 00 UTC OF 25TH OCTOBER 2024 TO 00 UTC OF 27TH OCTOBER 2024.

PART-I STORM WARNING:

SUBJECT: SEVERE CYCLONIC STORM "DANA" OVER NORTH ODISHA COAST (: RED MESSAGE)

LATEST OBSERVATIONS INDICATE THAT THE SEVERE CYCLONIC STORM "DANA" (PRONOUNCED AS DANA) OVER NORTHWEST BAY OF BENGAL MOVED NORTH-NORTHWESTWARDS WITH A SPEED OF 12 KMPH DURING PAST 6 HOURS, CROSSED NORTH ODISHA COAST CLOSE TO HABALIKHATI NATURE CAMP (BHITARKANIKA) AND DHAMARA DURING 0130 HRS IST TO 0330 HRS IST OF TODAY, 25TH OCTOBER AS A SEVERE CYCLONIC STORM WITH A WIND SPEED OF 100-110 KMPH GUSTING TO 120 KMPH AND LAY CENTRED AT 0230 HRS IST OF TODAY, THE 25TH OCTOBER, OVER ODISHA COAST, NEAR LATITUDE 20.7° N AND LONGITUDE 87.0 °E, ABOUT 60 KM NORTHEAST OF PARADIP (ODISHA), 20 KM SOUTHEAST OF DHAMARA (ODISHA) AND 150 KM SOUTHWEST OF SAGAR ISLAND (WEST BENGAL).

IT LAY CENTRED AT 0330 HRS IST OF TODAY, 25TH OCTOBER OVER NORTH COASTAL ODISHA NEAR LATITUDE 20.85° N AND LONGITUDE 86.9°E, ABOUT 10 KM NORTH OF DHAMARA AND 20 KM NORTH-NORTHWEST OF HABALIKHATI NATURE CAMP (BHITARKANIKA).

FUTURE POSITION, DATE AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

**DATE/TIME (IST) POSITION MAXIMUM SUSTAINED
(LAT. °N/LONG. °E) SURFACE WIND SPEED (KMPH)**

DATE/TIME (IST)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
24.10.24/2330	20.7/87.0	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
25.10.24/0530	20.9/86.8	95-105 GUSTING TO 115	SEVERE CYCLONIC STORM
25.10.24/1130	21.0/86.5	80-90 GUSTING TO 100	CYCLONIC STORM
25.10.24/1730	21.1/86.1	50-60 GUSTING TO 70	DEEP DEPRESSION
25.10.24/2330	21.1/85.6	30-40 GUSTING TO 50	DEPRESSION

QUADRANT WIND INFORMATION:

25.10.2024/0000:

WINDSPEEDS REACHING 27 KT AT AROUND 100 NM RADIUS FROM THE CENTRE IN THE NW, NE QUADRANTS, EXTENDING UP TO 140 NM & 200 NM IN THE SW, SE QUADRANTS RESPECTIVELY.

GALE WINDS REACHING 34 KT AT AROUND 80 NM RADIUS FROM THE CENTRE IN THE NW, SW QUADRANTS, AND EXTENDING UP TO 90 NM, 100 NM IN THE SE, NE QUADRANTS RESPECTIVELY.

GALE WINDS REACHING 50 KT AT AROUND 50 NM RADIUS FROM THE CENTRE IN THE NW, SW QUADRANTS, AND EXTENDING UP TO 60 NM, 70 NM IN THE SE, NE QUADRANTS RESPECTIVELY.

25.10.2024/1200:

WINDSPEEDS REACHING 27 KT AT AROUND 100 NM RADIUS FROM THE CENTRE IN THE NW, QUADRANT, 90 NM FROM THE CENTRE IN THE NE QUADRANT, EXTENDING UP TO 140 NM & 190 NM IN THE SW, SE QUADRANTS RESPECTIVELY.

GALE WINDS REACHING 34 KT AT AROUND 65 NM RADIUS FROM THE CENTRE IN THE SW QUADRANT, 70 NM RADIUS FROM THE CENTRE IN THE NW QUADRANTS, AND EXTENDING UP TO 80 NM IN THE SE, NE QUADRANTS.

PART-II SYNOPTIC WEATHER SYSTEM AT 0000 UTC:

THE UPPER AIR CYCLONIC CIRCULATION OVER SOUTHEAST ARABIAN SEA & ADJOINING LAKSHADWEEP AREA EXTENDING UPTO 4.5 KM ABOVE MEAN SEA LEVEL PERSISTS.

PART-III AREA FORECAST:

AREA: ARB A1 (ARABIAN SEA)-EQUATOR TO 10 DEG N W OF 80 DEG E.

ARB A1-FORECAST VALID FROM 00 UTC OF 25TH OCT 2024 TO 00 UTC OF 26TH OCT 2024.

I) WIND DIRECTION AND SPEED: SW-LY 05/15 KTS BEC CYCLONIC 05/10 KTS
AT 66 DEG E AND 8 DEGN.

II) WAVE HEIGHT: 1.0-1.5 M.

III) WEATHER: 1) E OF 54 DEG E: WIDESPREAD RA/TS.
2) REST AREA: FAIR.

IV) VISIBILITY: 1) E OF 54 DEG E: VERY POOR.
2) REST AREA: GOOD.

ARB A1-FORECAST VALID FROM 00 UTC OF 26TH OCT 2024 TO 00 UTC OF 27TH OCT 2024.

I) WIND DIRECTION AND SPEED: 1) W OF 70 DEG E: SW-LY 05/10 KTS BEC CYCLONIC 05/10 KTS.
AT 63 DEG E AND 7 DEG N.
3) REST AREA: SW-LY 10/15 KTS.

II) WAVE HEIGHT: 1.0-1.5 M.

III) WEATHER: 1) E OF 55 DEG E: WIDESPREAD RA/TS.
2) REST AREA: FAIR.

IV) VISIBILITY: 1) E OF 55 DEG E: VERY POOR.
2) REST AREA: GOOD.

ARB A2-ARABIAN SEA:-23 DEG 45 MIN N 68 DEG E TO 00 DEG N 63 DEG E TO CAPE GARDAFUI TO N OF 10 DEG N. 55

ARB A2-FORECAST VALID FROM 00 UTC OF 25TH OCT 2024 TO 00 UTC OF 26TH OCT 2024.

I) WIND DIRECTION AND SPEED: NW/N-LY 05/10 KTS BEC NE-LY 05/10 KTS TO THE S OF 21 DEG N.
II) WAVE HEIGHT: 1.0-1.5 M.

III) WEATHER: 1) S OF 15 DEG N TO THE E OF 58 DEG E: WIDESPREAD RA/TS.
2) REST AREA: FAIR.

IV) VISIBILITY: 1) S OF 15 DEG N TO THE E OF 58 DEG E: VERY POOR.
2) REST AREA: GOOD.

ARB A2-FORECAST VALID FROM 00 UTC OF 26TH OCT 2024 TO 00 UTC OF 27TH OCT 2024.

I) WIND DIRECTION AND SPEED: NW/N-LY 05/15 KTS BEC NE-LY 05/10 KTS TO THE S OF 20 DEG N.
II) WAVE HEIGHT: 1.0-1.5 M.

III) WEATHER: 1) S OF 15 DEG N TO THE E OF 60 DEG E: WIDESPREAD RA/TS.
2) REST AREA: FAIR.

IV) VISIBILITY: 1) S OF 15 DEG N TO THE E OF 60 DEG E: VERY POOR.

2) REST AREA: GOOD.

BOB A3-BAY OF BENGAL: EQUATOR TO 10 DEG N BETWEEN E OF 80 DEG E WEST OF 10 DEG N/98 DEG 30 MIN E TO 6 DEG N/95 DEG E THENCE S-WARDS TO EQUATOR.

BOB A3-FORECAST VALID FROM 00 UTC OF 25TH OCT 2024 TO 00 UTC OF 26TH OCT 2024.

I) WIND DIRECTION AND SPEED: SW-LY 10/20 KTS.

II) WAVE HEIGHT: 1.5-2.5 M.

III) WEATHER: 1) N OF 6 DEG N: WIDESPREAD RA/TS.

2) REST AREA: ISOLATED RA/TS.

IV) VISIBILITY: 1) N OF 6 DEG N: VERY POOR.

2) REST AREA: GOOD.

BOB A3-FORECAST VALID FROM 00 UTC OF 26TH OCT 2024 TO 00 UTC OF 27TH OCT 2024.

I) WIND DIRECTION AND SPEED: SW/W-LY 05/15 KTS BEC NW/N-LY 05/10 KTS
TO THE E OF 90 DEG E.

II) WAVE HEIGHT: 1.0-2.5 M.

III) WEATHER: 1) N OF 7 DEG N: FAIRLY WIDESPREAD RA/TS.

2) REST AREA: ISOLATED RA/TS.

IV) VISIBILITY: 1) N OF 7 DEG N: POOR.

2) REST AREA: GOOD.

BOB: A4: BAY OF BENGAL N OF 10 DEG N E OF 80 DEG E.

BOB A4-FORECAST VALID FROM 00 UTC OF 25TH OCT 2024 TO 00 UTC OF 26TH OCT 2024.

I) WIND DIRECTION AND SPEED: 1) N OF 15 DEG N: CYCLONIC 48/63 KTS AT 21.6 N/ 86.0 DEG E.

2) REST AREA: SW-LY 15/25 KTS.

II) WAVE HEIGHT: 9.0-14.0 M.

III) WEATHER: WIDESPREAD RA/TS.

IV) VISIBILITY: VERY POOR.

BOB A4--FORECAST VALID FROM 00 UTC OF 26TH OCT 2024 TO 00 UTC OF 27TH OCT 2024.

I) WIND DIRECTION AND SPEED: 1) N OF 18 DEG N: CYCLONIC 20/30 KTS AT 21.0 N/ 85.0E.

2) REST AREA: SW-LY 10/20 KTS BEC NW/W-LY 05/15 KTS.TO THE E OF 95 DEG E

II) WAVE HEIGHT: 2.0-4.0 M.

III) WEATHER: 1) N OF 19 DEG N: WIDESPREAD RA/TS.

2) S OF 13 DEG N: WIDESPREAD RA/TS.

3) REST AREA: ISOLATED RA/TS.

IV) VISIBILITY: 1) N OF 19 DEG N: VERY POOR

2) S OF 13 DEG N: VERY POOR

3) REST AREA: GOOD.

ADVISORY: PLEASE BE AWARE. WIND WAVE FORECASTS ARE AVERAGES. WIND GUSTS CAN BE 40 PER CENT STRONGER THAN THE FORECAST. MAXIMUM WAVE HEIGHT CAN BE TWICE THE FORECAST WAVE HEIGHT.

NEXT FORECAST WILL BE ISSUED AT 25/0600 UTC.

=====

TOO: 25/0900



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF SEVERE CYCLONIC STORM 'DANA' OVER NORTH ODISHA COAST BASED ON 2100 UTC OF 24th (0230 Hrs. IST OF 25th) OCTOBER 2024

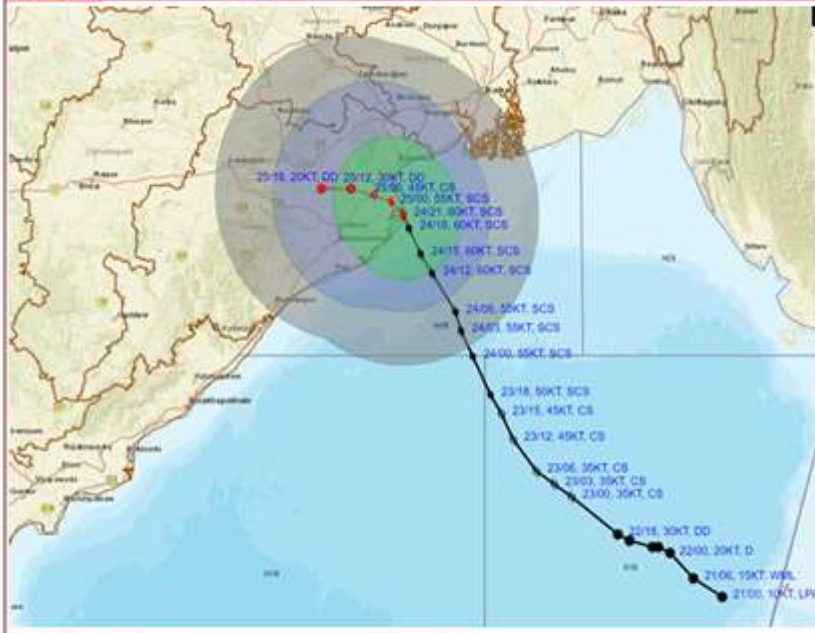


DATE/TIME	: IN UTC	●	LESS THAN 34 KT	
IST	: UTC + 0530	○	34-47 KT	
KT	: NAUTICAL MILES/ HOUR = 1.85 KM/ HOUR	⊖	≥ 48 KT	
LPA	: LOW PRESSURE AREA	—	OBSERVED TRACK	
WML	: WELL MARKED LOW PRESSURE AREA	—	FORECAST TRACK	
D	: DEPRESSION (17-27 KT)	⊖	●	CONE OF UNCERTAINTY
DD	: DEEP DEPRESSION (28-33 KT)			
CS	: CYCLONIC STORM (34-47 KT)			
SCS	: SEVERE CYCLONIC STORM (48-63 KT)			
VSCS	: VERY SEVERE CYCLONIC STORM (64-89 KT)			
ESCS	: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)			
SuCS	: SUPER CYCLONIC STORM (≥120 KT)			

Forecast	DISTANCE (KM) AND DIRECTION FROM STATIONS		
Date and Time (UTC)	PARADIP (CWR)	DHAMARA	SAGAR ISLAND
24.10.24/2100	60, NE	20, SE	150, SW
25.10.24/1800	140, NW	140, WNW	260, WSW



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM 'DANA' OVER NORTH ODISHA COAST BASED ON 2100 UTC OF 24th (0230 Hrs. IST OF 25th) OCTOBER 2024



DATE-TIME : IN UTC
 IST : UTC + 0530
 KT : NAUTICAL MILES/HOUR = 1.85 KM/HOUR
 LPA : LOW PRESSURE AREA
 WML : WELL MARKED LOW PRESSURE AREA
 D : DEPRESSION (17-27KT)
 DD : DEEP DEPRESSION (28-33KT)
 CS : CYCLONIC STORM (34-47KT)
 SCS : SEVERE CYCLONIC STORM (48-63KT)
 VSCS : VERY SEVERE CYCLONIC STORM (64-89KT)
 ESCS : EXTREMELY SEVERE CYCLONIC STORM (90-119KT)
 SuCS : SUPER CYCLONIC STORM (≥120KT)

● 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