

GLOBAL MARITIME 251330 IST

DATE/TIME OF ISSUE: 25-10-2024/0800 UTC

GMDSS BULLETIN I 250900

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 09 UTC OF 25TH OCTOBER 2024 TO 00 UTC OF 27TH OCTOBER 2024.

PART-I STORM WARNING:

SUBJECT: SEVERE CYCLONIC STORM "DANA" OVER NORTH COASTAL ODISHA

THE SEVERE CYCLONIC STORM "DANA" (PRONOUNCED AS DANA) MOVED NORTH-NORTHWESTWARDS WITH A SPEED OF 10 KMPH AND WEAKENED INTO A CYCLONIC STORM OVER NORTH COASTAL ODISHA AND LAY CENTRED NEAR LATITUDE 21.20°N AND LONGITUDE 86.70°E AT 0830 HRS IST OF TODAY, THE 25TH OCTOBER, ABOUT 30 KM NORTHEAST OF BHADRAK AND 50 KM NORTHNORTHWEST OF DHAMARA. THE MAXIMUM SUSTAINED WIND SPEED AROUND THE CENTRE OF THE CYCLONE IS ABOUT 80-90KMPH GUSTING TO 100KMPH. THE LANDFALL PROCESS HAS COMPLETED. IT IS LIKELY TO MOVE NORTHWESTWARDS ACROSS NORTH ODISHA AND WEAKEN GRADUALLY INTO A DEEP DEPRESSION DURING NEXT 06 HOURS.

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

**DATE/TIME (IST) POSITION MAXIMUM SUSTAINED
(LAT. 0N/LONG. 0E) SURFACE WIND SPEED (KMPH)**

Date/Time (IST)	Position (Lat. °N/ Long. °E)	Maximum Sustained Surface Wind Speed (Kmph)	Category Of Cyclonic Disturbance
25.10.24/0830	21.2/86.7	80-90 gusting to 100	Cyclonic Storm
25.10.24/1130	21.4/86.6	60-70 gusting to 80	Cyclonic Storm
25.10.24/1730	21.6/86.3	50-60 gusting to 70	Deep Depression
25.10.24/2330	21.6/85.9	30-40 gusting to 50	Depression

QUADRANT WIND INFORMATION:

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 0300 UTC:

THE UPPER AIR CYCLONIC CIRCULATION OVER SOUTHEAST ARABIAN SEA & ADJOINING LAKSHADWEEP AREA NOW LIES OVER SOUTHEAST & ADJOINING SOUTHWEST ARABIAN SEA AND EXTENDS UPTO 3.1 KM ABOVE MEAN SEA LEVEL PERSISTS. ❖ A CYCLONIC CIRCULATION LIES OVER SOUTHEAST ARABIAN SEA OFF SOUTH KERALA COAST AND EXTENDS UPTO 1.5 KM ABOVE MEAN SEA LEVEL.

PART-III AREA FORECAST:

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

ARB A1-FORECAST VALID FROM 09 UTC OF 25TH OCT 2024 TO 00 UTC OF 26TH OCT 2024.

- I) WIND DIRECTION AND SPEED: 1) W OF 60 DEG E: NW/W-LY 05/10 KTS BEC CYCLONIC 05/10 KTS
TO THE S OF 5 DEG N.
TO THE E OF 55 DEG E
2) N OF 5 DEG N TO THE E OF 60 TO 70 DEG E: S/SW-LY 05/15 KTS BEC
CYCLONIC 05/10 KTS AT 62 DEG E AND 7 DEGN.
3) REST AREA: SW-LY 05/15 KTS.
- II) WAVE HEIGHT: 1.0-1.5 M.
- III) WEATHER: 1) N OF 3 DEG N TO THE E OF 55 DEG E TO : WIDESPREAD RA/TS.
2) REST AREA: FAIR.
- IV) VISIBILITY: 1) N OF 3 DEG N TO THE E OF 55 DEG E TO : VERY POOR.
2) REST AREA: GOOD.

ARB A1-FORECAST VALID FROM 00 UTC OF 26TH OCT 2024 TO 12 UTC OF 27TH OCT 2024.

- I) WIND DIRECTION AND SPEED: 1) N OF 5 DEG N TO THE W OF 65 DEG E: CYCLONIC 05/10 KTS
AT 60 DEG E AND 7 DEG N.
2) S OF 5 DEG N TO THEN W OF 55 DEG E: SE-LY 05/10 KTS.
3) N OF 5 DEG N TO THE E OF 65 DEG E: NW/W-LY 05/10 KTS BEC
SW/W-LY 10/20 KTS TO THE E OF 75 DEG E.
4) REST AREA: SW-LY 05/15 KTS.
- II) WAVE HEIGHT: 1.0-1.5 M.
- III) WEATHER: 1) N OF 3 DEG N TO THE E OF 62 DEG E: WIDESPREAD RA/TS.
2) N OF 3 DEG N TO THE E OF 55 DEG E: SCATTERED RA/TS.
3) REST AREA: FAIR..
- IV) VISIBILITY: 1) N OF 3 DEG N TO THE E OF 62 DEG E: VERY POOR.
2) N OF 3 DEG N TO THE E OF 55 DEG E: MODERATE.
3) 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 09 UTC OF 25TH OCT 2024 TO 00 UTC OF 26TH OCT 2024.

- I) WIND DIRECTION AND SPEED: 1) N OF 20 DEG N: ANTICYCLONIC 05/10 KTS.
2) S OF 20 DEG N TO THE E OF 70 DEG E: NW-LY 05/10 KTS.
3) REST AREA: NE-LY 05/15 KTS.
- II) WAVE HEIGHT: 1.0-1.5 M.
- III) WEATHER: 1) S OF 15 DEG N TO THE E OF 55 DEG E: FAIRLY WIDESPREAD RA/TS.
2) N OF 18 DEG N: FAIR.
3) REST AREA: ISOLATED RA/TS.
- IV) VISIBILITY: 1) S OF 15 DEG N TO THE E OF 55 DEG E: POOR.
2) REST AREA: GOOD.

ARB A2-FORECAST VALID FROM 00 UTC OF 26TH OCT 2024 TO 12 UTC OF 27TH OCT 2024.

- I) WIND DIRECTION AND SPEED: 1) N OF 20 DEG N: NW-LY 05/15 KTS.
2) S OF 20 DEG N TO THE W OF 70 DEG E: NE-LY 05/15 KTS.
3) REST AREA: NW-LY 05/10 KTS.
- II) WAVE HEIGHT: 1.0-1.5 M.
- III) WEATHER: 1) S OF 15 DEG N TO THE E OF 55 DEG E: FAIRLY WIDESPREAD RA/TS.
2) REST AREA: FAIR.
- IV) VISIBILITY: 1) S OF 15 DEG N TO THE E OF 55 DEG E: 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 09 UTC OF 25TH OCT 2024 TO 00 UTC OF 26TH OCT 2024.

- I) WIND DIRECTION AND SPEED: 1) S OF 5 DEG N: SW/W-LY 05/10 KTS BEC NW/W-LY 05/10 KTS TO
THE E OF 90 DEG E.
2) REST AREA: SW-LY 10/20 KTS BEC W/NW-LY 05/10 KTS TO
THE E OF 95 DEG E.
- II) WAVE HEIGHT: 1.5-2.5 M.

- III) WEATHER: 1) N OF 5 DEG N: WIDESPREAD RA/TS.
2) REST AREA: SCATTERED RA/TS.
- IV) VISIBILITY: 1) N OF 5 DEG N: VERY POOR.
2) REST AREA: MODERATE.

BOB A3-FORECAST VALID FROM 00 UTC OF 26TH OCT 2024 TO 12 UTC OF 27TH OCT 2024.

- I) WIND DIRECTION AND SPEED: 1) N OF 5 DEG N: SW/W-LY 10/20 KTS.
2) REST AREA: SW/W-LY 05/15 KTS.
- II) WAVE HEIGHT: 1.0-2.5 M.
- III) WEATHER: 1) N OF 6 DEG N: WIDESPREAD RA/TS.
2) REST AREA: SCATTERED RA/TS.
- IV) VISIBILITY: 1) N OF 6 DEG N: VERY POOR.
2) REST AREA: MODERATE.

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

BOB A4-FORECAST VALID FROM 09 UTC OF 25TH OCT 2024 TO 00 UTC OF 26TH OCT 2024.

- I) WIND DIRECTION AND SPEED: 1) N OF 18 DEG N: CYCLONIC 25/35 KTS AT 21.6N/86.3E
2) REST AREA: SW-LY 10/20 KTS BEC NW/W-LY 05/10 KTS
TO THE E OF 95 DEG E.
- II) WAVE HEIGHT: 9.0-14.0 M.
- III) WEATHER: 1) N OF 18 DEG N: WIDESPREAD RA/TS.
2) S OF 15 DEG N: FAIRLY WIDESPREAD RA/TS.
3) REST AREA: ISOLATED RA/TS.
- IV) VISIBILITY: 1) N OF 18 DEG N: VERY POOR
2) S OF 15 DEG N: POOR
3) REST AREA: GOOD.

BOB A4-FORECAST VALID FROM 00 UTC OF 26TH OCT 2024 TO 12 UTC OF 27TH OCT 2024.

- I) WIND DIRECTION AND SPEED: 1) W OF 90 DEG E: S/SW-LY 10/20 KTS.
2) REST AREA: N/NW-LY 05/10 KTS.
- II) WAVE HEIGHT: 1.5-2.5 M
- III) WEATHER: 1) S OF 15 DEG N: WIDESPREAD RA/TS.
2) N OF 15 TO 20 DEG N: SCATTERED RA/TS.
3) REST AREA: FAIR.
- IV) VISIBILITY: 1) S OF 15 DEG N: VERY POOR.
2) N OF 15 TO 20 DEG N: MODERATE.
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 25/1700 UTC.

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TOO: 25/1330



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM 'DANA' OVER NORTH COASTAL ODISHA BASED ON 0300 UTC (0830 Hrs. IST) OF 25th OCTOBER 2024



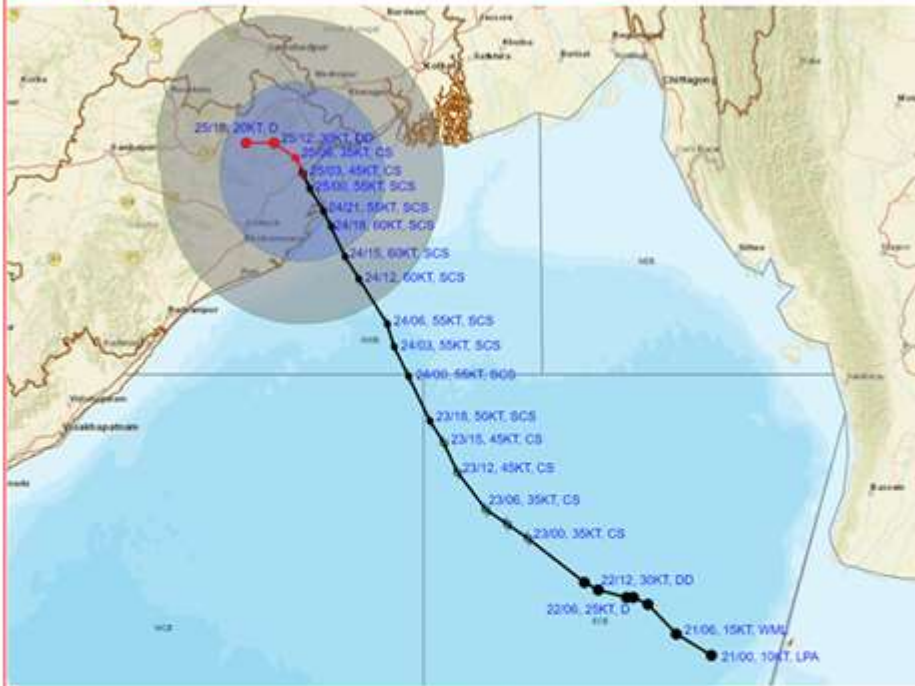
DATE/TIME : IN UTC
 IST : UTC + 0530
 KT : NAUTICAL MILE/HOUR = 1.85 KM/HOUR
 LPA : LOW PRESSURE AREA
 WML : WELL MARKED LOW PRESSURE AREA
 D : DEPRESSION (17-27 KT)
 DD : DEEP DEPRESSION (28-33 KT)
 CS : CYCLONIC STORM (34-47 KT)
 SCS : SEVERE CYCLONIC STORM (48-63 KT)
 VSCS : VERY SEVERE CYCLONIC STORM (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

Forecast	DISTANCE (KM) AND DIRECTION FROM STATIONS	
Date and Time (UTC)	BHADRAK	DHAMARA
25.10.24/0300	30, ENE	50, NNW



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM 'DANA' OVER NORTH COASTAL ODISHA BASED ON 0300 UTC (0830 Hrs. IST) OF 25th OCTOBER 2024



DATE/TIME : IN UTC
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 KT : NAUTICAL MILE/HOUR = 1.85 KM/HOUR
 LPA : LOW PRESSURE AREA
 WML : WELL MARKED LOW PRESSURE AREA
 D : DEPRESSION (17-27 KT)
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 SuCS : SUPER CYCLONIC STORM (≥120 KT)

● 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