

India Meteorological Department (Ministry of Earth Sciences)

HOURLY UPDATE ON SEVERE CYCLONIC STORM "DANA"

BULLETIN NO. 19

DATE: 25-10-2024 TIME OF ISSUE: 1230 HRS IST

DATE/TIME (IST) OF	BASED ON 25-10-2024 (1130 HRS IST)
OBSERVATION	
LOCATION LATITUDE/LONGITUDE	THE CYCLONIC STORM "DANA" (PRONOUNCED AS DANA) MOVED NORTH-NORTHWESTWARDS WITH A SPEED OF 07 KMPH AND LAY CENTRED NEAR LATITUDE 21.4° N AND LONGITUDE 86.6°E AT 1130 HRS IST OF TODAY, THE 25TH OCTOBER, OVER NORTH COASTAL ODISHA, ABOUT 40 KM NORTH-NORTHEAST OF BHADRAK AND 70 KM NORTH-
	NORTHWEST OF DHAMARA.
CURRENT INTENSITY WIND SPEED	CYCLONIC STORM 65-75 KMPH GUSTING TO 85 KMPH
FORECAST	IT IS LIKELY TO MOVE NEARLY WESTWARDS ACROSS NORTH ODISHA AND WEAKEN GRADUALLY INTO A DEEP DEPRESSION DURING NEXT 06 HOURS.
	THE SYSTEM IS UNDER CONTINUOUS SURVEILLANCE OF THE DOPPLER WEATHER RADAR AT PARADIP.

- Maximum Strom Surge height of 1-2m height above astronomical tide inundated low lying areas of Kendrapara, & Bhadrak districts of Odisha during the time of landfall.
- ❖ Rainfall (in mm) during last 03hours from 0830IST to 1130IST over Odisha & West Bengal:
 - 1. Chandbali 77.8mm
 - 2. Balasore 26.6mm
 - 3. Haldia 23mm
 - 4. Diamond Harbour 21mm
 - 5. Alipore (Kolkatta) 58.8mm, Dum-Dum 35mm & Salt Lake 29mm

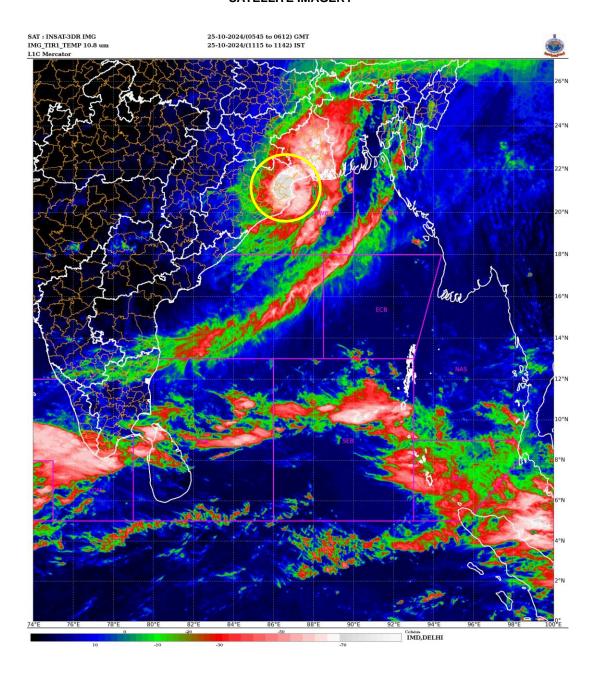
Rainfall during past 24hours till 0830IST of today, 25.10.2024 over Odisha & West Bengal is attached below.

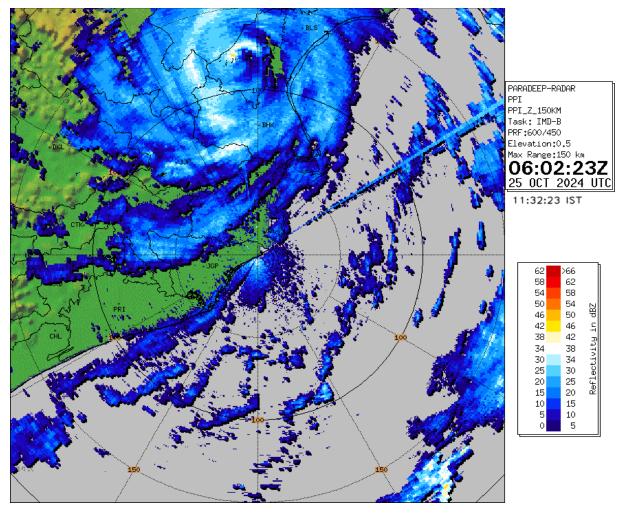
DISTRICTS	STATION	RAINFALL
BHADRAK	CHANDBALI	158.6
KENDRAPADA	RAJKANIKA *	156.0
BHADRAK	BASUDEVPUR	110.0
KENDRAPADA	MARSHAGHAI	110.0
BALASORE	OUPADA	109.0
KENDRAPADA	RAJNAGAR	100.0
KENDRAPADA	MOHAKALAPADA	90.0
KENDRAPADA	AUL	80.0
JAGATSINGHPUR	PARADEEP	76.4
KENDRAPADA	DERABIS	72.0
BHADRAK	BHADRAK	70.2
BALASORE	BALASORE	68.8
JAJPUR	JAJPUR (PTO)	68.2
KENDRAPADA	KENDRAPADA (PTO)	67.2
BALASORE	NILGIRI *	67.0
KENDRAPADA	KENDRAPADA *	66.0
KENDRAPADA	PATAMUNDAI *	65.9
BALASORE	SORO	63.0
JAJPUR	BINJHARPUR	60.0
JAJPUR	JAJPUR	60.0
MAYURBHANJ	UDALA *	60.0
MAYURBHANJ	KUSUMI	57.0
BHADRAK	TIHIDI	56.0
BALASORE	BAHANGA	53.0
JAJPUR	BARI	52.0
KENDRAPADA	GARADPUR	52.0
ANGUL	TALCHER	52.0

Rainfall during past 24hours till 0830IST of today, 25.10.2024 over West Bengal is attached below.

1	
Diamond Harbour	93
Kalaikunda	91
Sagar Island	90
AMFU KHARAGPUR	88
Haldia	80
MOHANPUR	69
Jhargram	67
Uluberia	65
AMFUKAKDWIP	58
MEDINIPUR	56
Midnapore City	52
Alipore	43
LALGARH	42
Digha	37
FULBERIA	35
Basirhat	30
Contai	29
_	29

SATELLITE IMAGERY

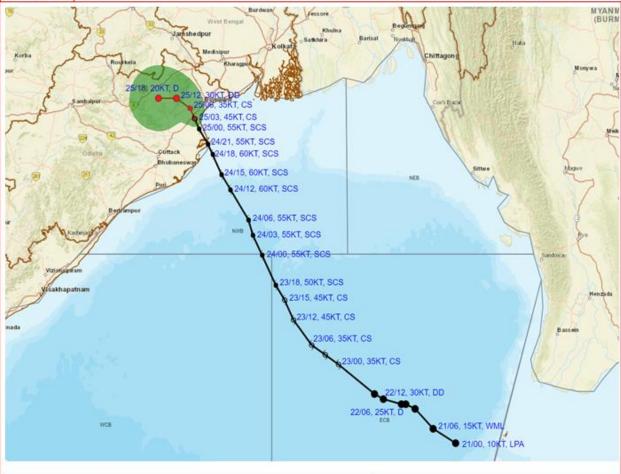




RADAR OBSERVATIONS (MAX_Z) OF DWR PARADIP



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY 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 S/HOUR = 1.85 KM/HOUR LPA : LOW PRE SSURE ARE A WML : WELL MARKED LOW PRE SSURE ARE A

D : DE PRE SSION (17-27 KT)
DD : DEEP DEPRE SSION (28-33 KT)
CS : CYCLONIC STORM (34-47 KT)

SCS : SEVERECY CLONIC STORM (48-63 KT)
VSCS : VERY SEVERECY CLONIC STORM (64-89 KT)
ESCS : EXTREMELY SEVERE CYCLONIC STORM (64-

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

SuCS : SUPER CYCLONIC STORM (≥120 KT)

LESS THAN 34 KT

9 34.47 KT ≥ 48 KT

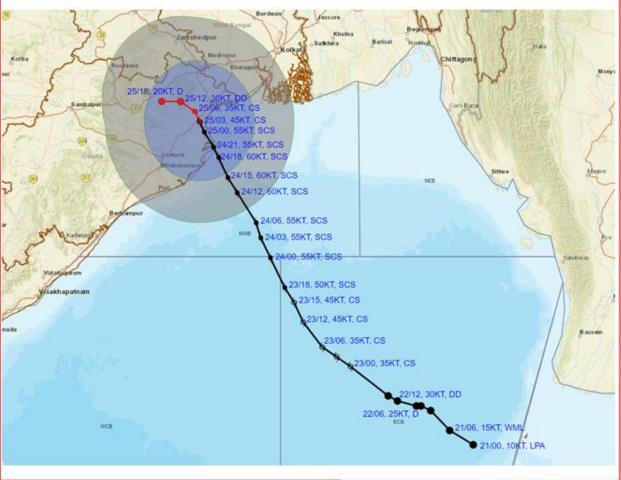
OBSERVED TRACK
FORECAST TRACK

CONE OF UNCERTAINTY

Forecast	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 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 KT)
DD : DE EP DE PRE SSION (28-33 KT)
CS : CYCLONIC STORM (34-47 KT)

SCS : SEVERECY CLONIC STORM (48-63 KT)
VSCS : VERY SEVERECY CLONIC STORM (64-89 KT)
ESCS : EXTREMELY SEVERE CY CLONIC STORM (90-119 KT)

SuCS : SUPER CYCLONIC STORM (≥120 KT)

LESS THAN 34 KT

9 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	١
---------------------	---

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

