



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

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Sub: Depression intensified into a Deep Depression over North & adjoining central Bay of Bengal: Cyclone Alert for north Andhra Pradesh and adjoining south Odisha coasts – Yellow Message

The Depression over northeast and adjoining eastcentral Bay of Bengal moved westwards with a speed of 12 kmph in last 6 hours, intensified into a Deep Depression and lay centered at 0530 hrs IST of 25th September 2021, over north and adjoining eastcentral Bay of Bengal near Lat. 18.4°N and Long. 89.7°E, about 510 km east-southeast of Gopalpur (Odisha) & 590 km east-northeast of Kalingapatnam (Andhra Pradesh).

It is likely to intensify into a Cyclonic Storm during next 12 hours. It is likely to move nearly westwards and cross north Andhra Pradesh - south Odisha coasts between Vishakhapatnam & Gopalpur around Kalingapatnam by evening of 26th September, 2021.

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
25.09.21/0530	18.4/89.7	50-60 gusting to 70	Deep Depression
25.09.21/1730	18.5/87.8	60-70 gusting to 80	Cyclonic Storm
26.09.21/0530	18.5/85.8	70-80 gusting to 90	Cyclonic Storm
26.09.21/1730	18.4/84.1	70-80 gusting to 90	Cyclonic Storm
27.09.21/0530	18.6/82.3	50-60 gusting to 70	Deep Depression
27.09.21/1730	19.0/80.7	40-50 gusting to 60	Depression

Warnings:

(i) Rainfall

- 25th Sept.: Light to moderate rainfall at many places with heavy rainfall at isolated places likely over Gangetic West Bengal, Odisha and Coastal Andhra Pradesh.
- 26th Sept.: Light to moderate rainfall at most places with heavy to very heavy falls at a few places & extremely heavy falls at isolated places very likely over south Odisha and north coastal Andhra Pradesh; heavy to very heavy falls at isolated places over Telangana and heavy falls at isolated places over north interior Odisha & Chhattisgarh.
- 27th Sept.: Light to moderate rainfall at most places with heavy to very heavy & extremely heavy falls at isolated places very likely over south Chhattisgarh; heavy to very heavy falls at isolated places over Odisha & Telangana and heavy rainfall at isolated places over coastal West Bengal.

(ii) Wind warning

- 25th Sept: Squally wind speed reaching 50-60 kmph gusting to 70 kmph very likely over Northwest and adjoining Westcentral Bay of Bengal and increase gradually becoming gale wind speed reaching 60-70 kmph gusting to 80 kmph from the evening and 70-80 kmph gusting to 90 kmph from 26th morning till evening.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely along and off Odisha-North Andhra Pradesh coasts from today morning. It will gradually increase becoming gale wind speed reaching 70-80 kmph gusting to 90 kmph from afternoon of 26th till midnight along & off north Andhra Pradesh & adjoining south Odisha coasts.

(iii) Sea condition

- Sea condition will be rough to very rough over east-central & adjoining northeast Bay of Bengal during next 12 hours.
- Sea condition will be rough to very rough over Northwest and adjoining Westcentral Bay of Bengal and along and off Odisha, West Bengal and North Andhra Pradesh coasts during next 12 hours and become High from today evening till 26th Sept. evening.
- Sea condition will be rough to very rough over Northwest Bay of Bengal and along and off Odisha-north Andhra Pradesh coasts on 27th Sept.

(iv) Fishermen Warning

- The fishermen are advised not to venture into east-central & adjoining northeast Bay of Bengal and Andaman Sea on 25th Sept.
- The fishermen are advised not to venture into northwest & adjoining westcentral Bay of Bengal and along & off Odisha, West Bengal & North Andhra Pradesh coasts till 27th Sept.

(v) EXPECTED IMPACT & ACTION SUGGESTED due to Strong winds & very Heavy/Extremely heavy Rainfall over coastal Andhra Pradesh & south Odisha on 26th & and over south Chhattisgarh on 27th September 2021.

A. Impact Expected

- Localized Flooding of roads, inundation and 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 due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads. Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation and strong winds.

- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

B. Action Suggested

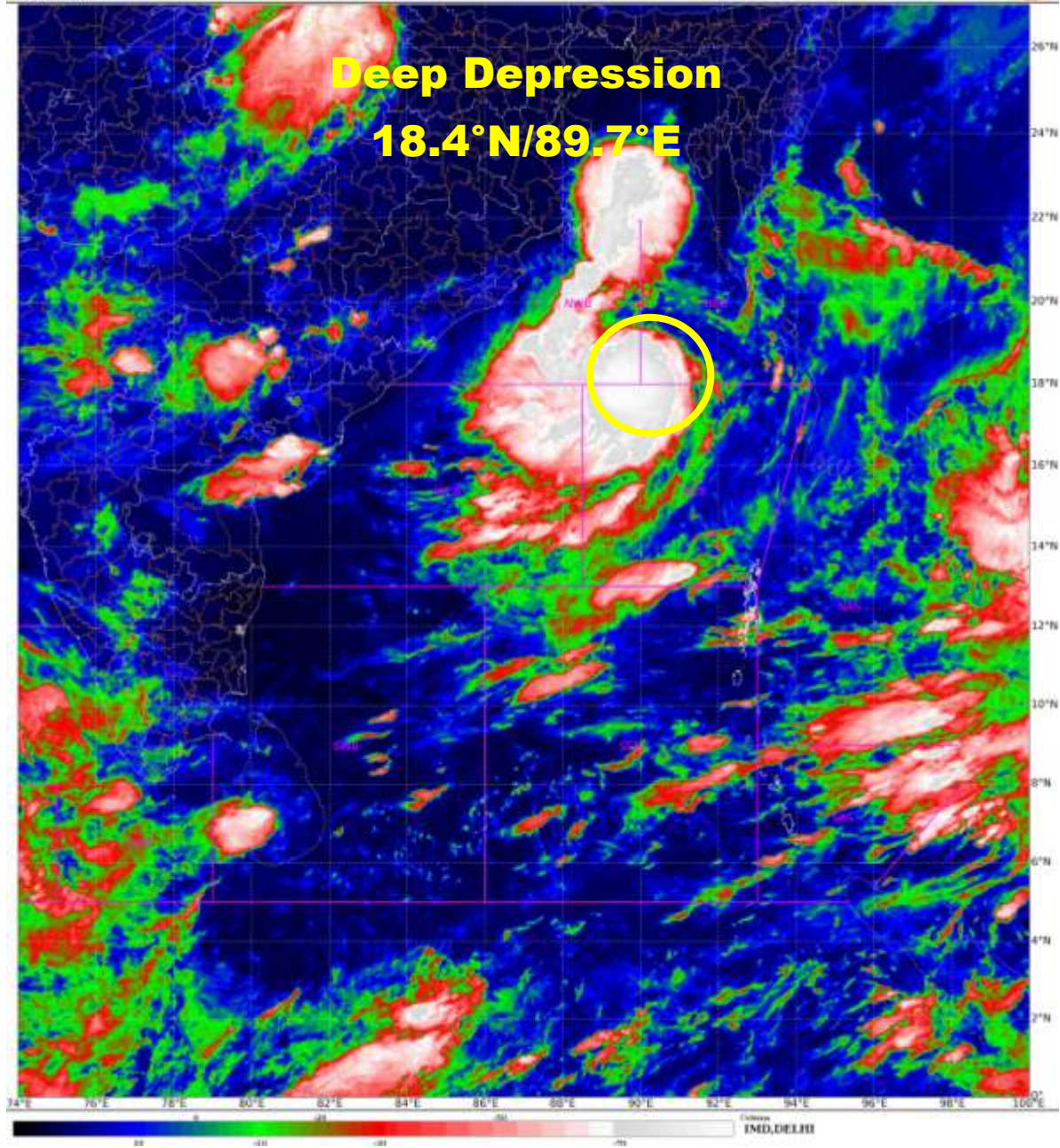
- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.
- Follow IMD warnings for updates

(Sunitha Devi. S)
Scientist-F, RSMC, New Delhi

Next bulletin will be issued at 1130 hrs IST of today, the 25th September, 2021.

Copy to: ACWC Kolkata/ Chennai/CWC Bhubaneswar/CWC Visakhapatnam/MC Ranchi/MC Hyderabad/MC Raipur

LEGEND: Heavy Rainfall: 64.5 to 115.5mm, **Very Heavy Rainfall:**115.6 to 204.4mm, **Extremely Heavy Rainfall:** 204.5mm or more. **Many Places:** 51% to 75% of the stations, **Most Places:** more than 76% of total stations, **Isolated Places:** Less than 25% of total stations





OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION OVER NORTH AND ADJOINING CENTRAL BAY OF BENGAL BASED ON 0000 UTC OF 25TH SEPTEMBER, 2021



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 (≥ 20 KT)



LESS THAN 34 KT



34-47 KT



≥ 48 KT



OBSERVED TRACK



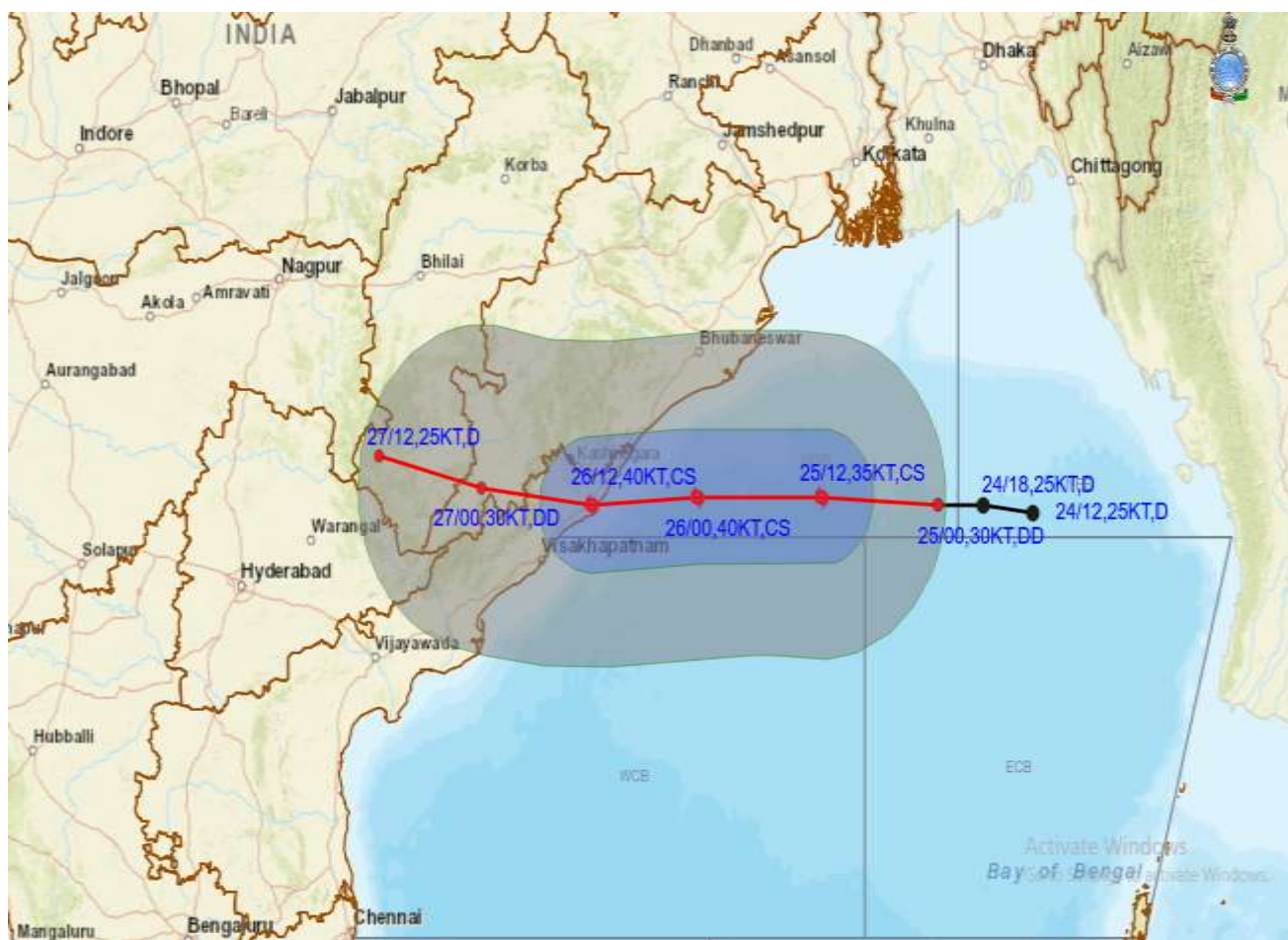
FORECAST TRACK



CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER NORTH AND ADJOINING CENTRAL BAY OF BENGAL BASED ON 0000 UTC OF 25TH SEPTEMBER, 2021



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)

ECS: 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

AREA OF MAXIMUM SUSTAINED WIND SPEED:

■ 28-33 KT (52-61 KMPH)

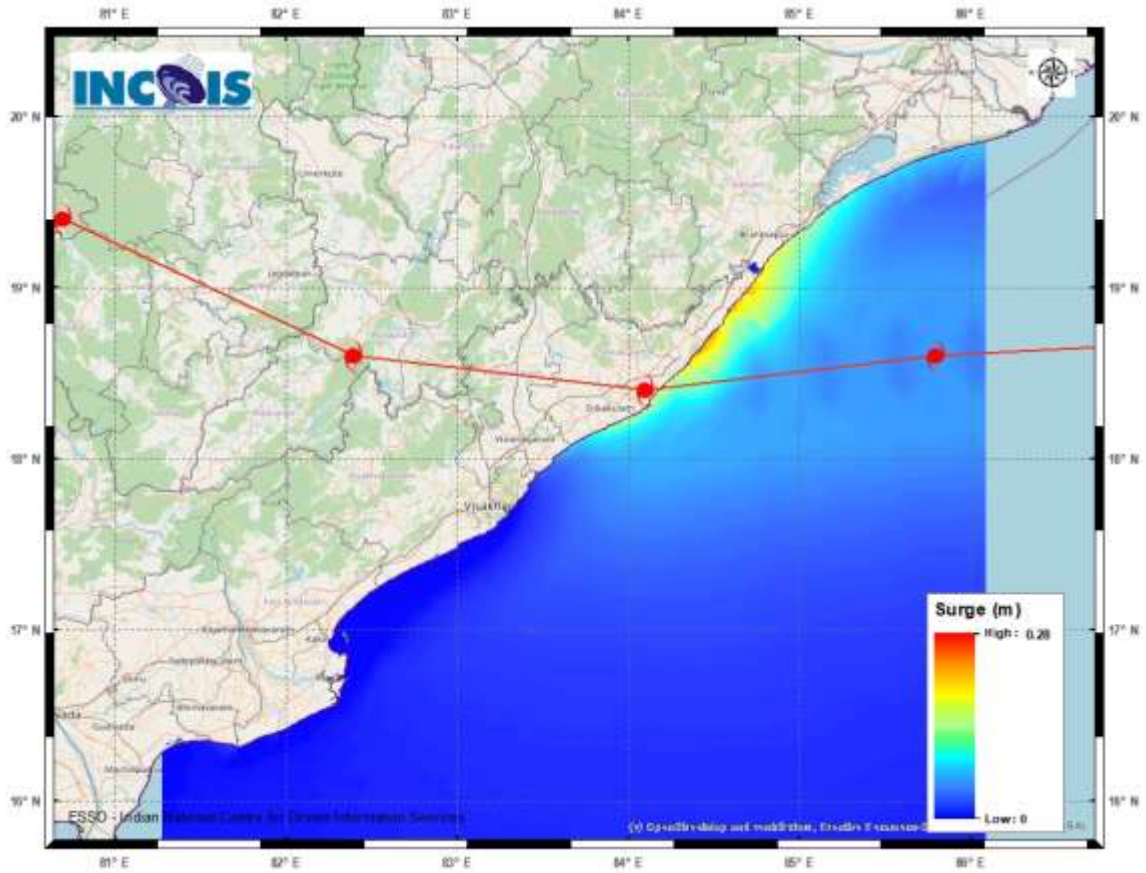
■ 34-49 KT (62-91 KMPH)

■ 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



Storm surge graphic from INCOIS for the current depression (BoB/04/2021)

Peak storm surge of 0.27m over and above the astronomical tide near Tekkali, Srikakulam, Andhra Pradesh .

Sub-division wise heavy rainfall warning for next 5 days

