



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

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Sub: Depression over Northeast & adjoining Eastcentral Bay of Bengal: Pre-Cyclone Watch for north Andhra Pradesh and adjoining south Odisha coasts.

The Depression over eastcentral & adjoining northeast Bay of Bengal moved west-northwest direction with a speed of 14 kmph in last 6 hours and lay centered at 2330 hrs IST of 24th September 2021, over northeast and adjoining east-central Bay of Bengal near Lat. 18.4°N and Long. 90.4°E, about 580 km east-southeast of Gopalpur (Odisha) & 660 km east of Kalingapatnam (Andhra Pradesh).

It is likely to intensify into a Deep Depression during next 12 hours and intensify further thereafter. It is likely to move initially west-northwestwards during next 24 hours and west-southwestwards thereafter and cross south Odisha–north Andhra Pradesh 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 |
|-----------------------|---|--|---|
| 24.09.21/2330 | 18.4/90.4 | 40-50 gusting to 60 | Depression |
| 25.09.21/1130 | 18.6/88.5 | 50-60 gusting to 70 | Deep Depression |
| 25.09.21/2330 | 18.6/86.7 | 60-70 gusting to 80 | Cyclonic Storm |
| 26.09.21/1130 | 18.5/84.9 | 70-80 gusting to 90 | Cyclonic Storm |
| 26.09.21/2330 | 18.5/83.2 | 50-60 gusting to 70 | Deep Depression |
| 27.09.21/1130 | 19.0/81.5 | 40-50 gusting to 60 | Depression |

Warnings:

(i) Rainfall

- 25th Sept.: Light to moderate rainfall at most places with heavy rainfall at isolated places very likely over 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 & Telangana.
- 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 25th 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 on 25th & high on 26th Sept.
- 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 very Heavy/Extremely heavy Rainfall over coastal Andhra Pradesh on 26th & Odisha and Chhattisgarh on 26th & 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 kutch 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

(Ananda Kumar Das)
Scientist-E, RSMC, New Delhi

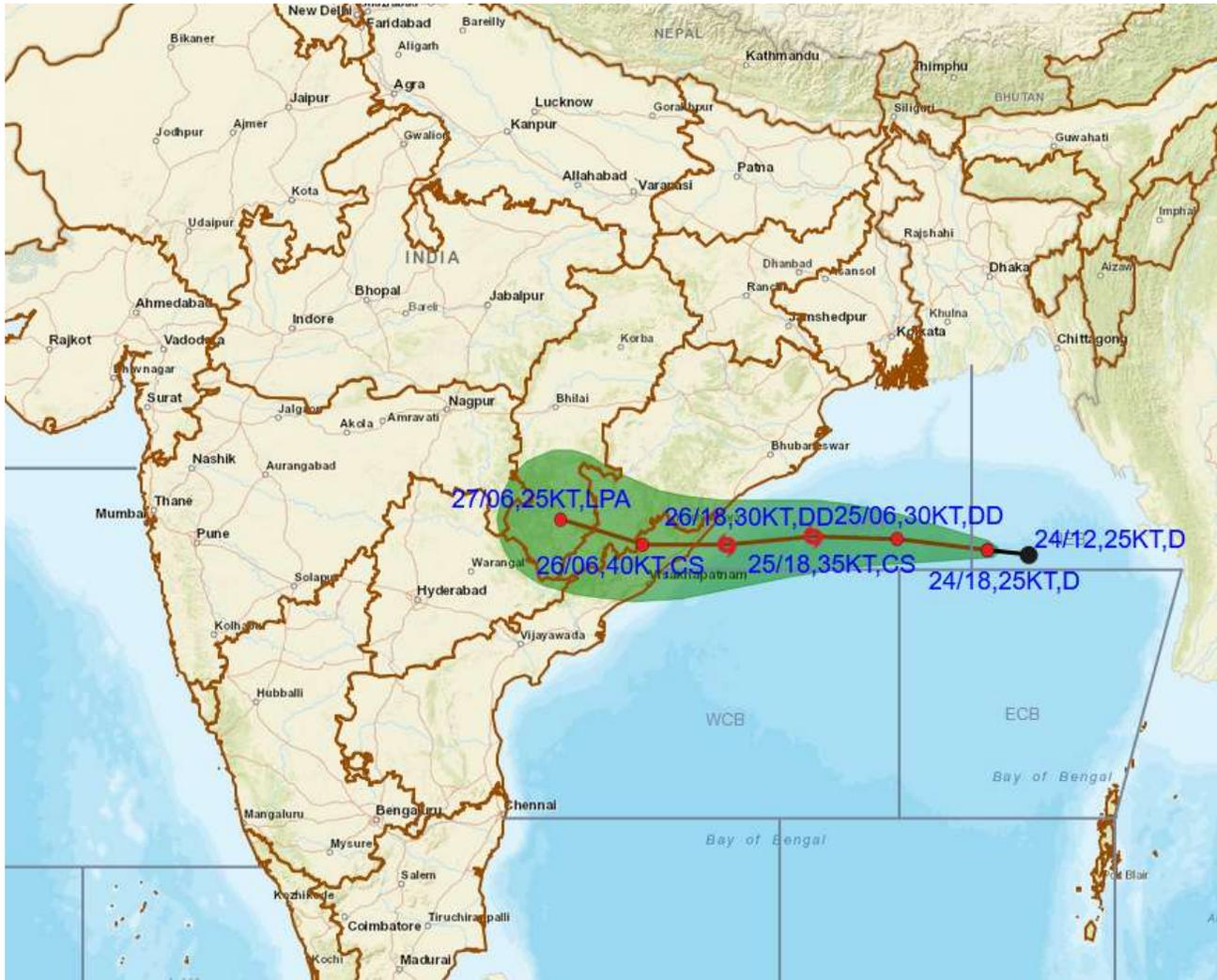
Next bulletin will be issued at 0830 hrs IST of tomorrow, the 25th September, 2021.

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

| |
|---|
| <p>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</p> |
|---|



OBSERVED AND FORECAST TRACK OF DEPRESSION OVER NORTHEAST AND ADJOINING EASTCENTRAL BAY OF BENGAL BASED ON 1800 UTC OF 24TH SEPTEMBER, 2021

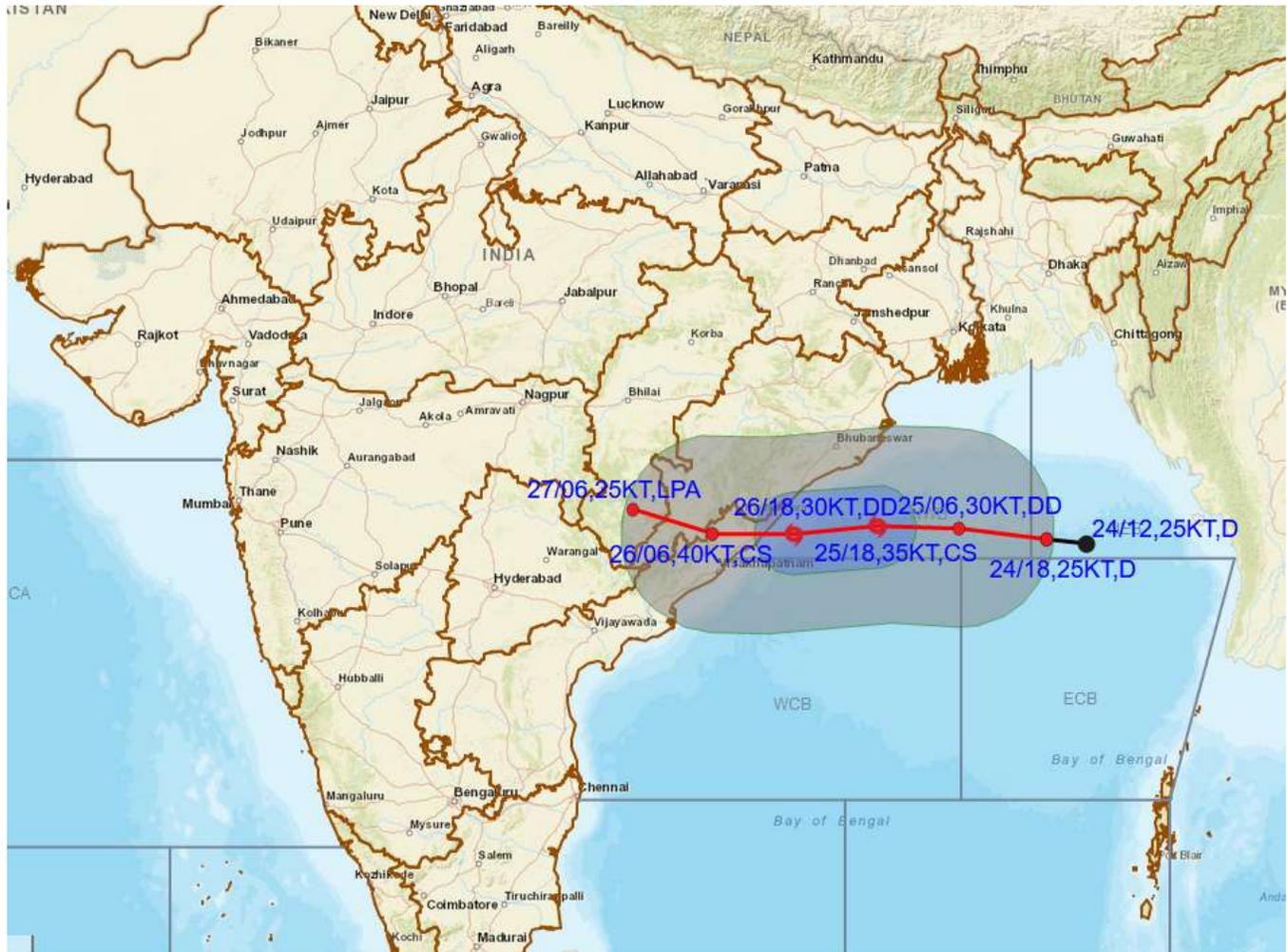


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 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 DEPRESSION OVER NORTHEAST AND ADJOINING EASTCENTRAL BAY OF BENGAL BASED ON 1800 UTC OF 24TH SEPTEMBER, 2021

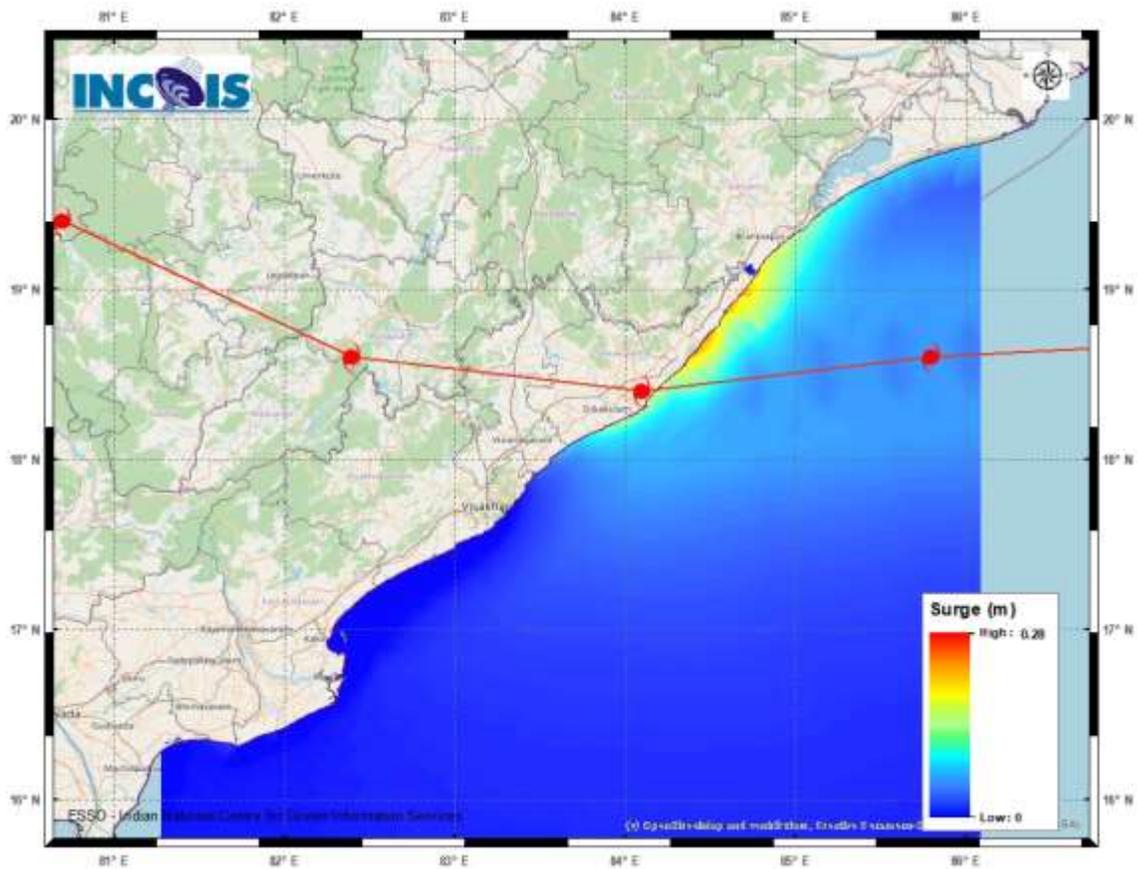


DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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

● LESS THAN 34 KT
 ○ 34-47 KT
 ● \geq 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)
 ■ \geq 64 KT (\geq 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 |
| \geq 64 (\geq 118) | Phenomenal | Total suspension of fishing operations |



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

Peak storm surge of 0.28m over and above the astronomical tide near Tekkali, Srikakulam, Andhra Pradesh.