

Ministry of Earth Sciences India Meteorological Department Cyclone Warning Division, New Delhi

Tropical Cyclone Forecast Programme Report Dated 25th October 2025

Time of Issue: 1300 UTC

Synoptic features (based on 0600 UTC analysis):

> Depression over Eastcentral Arabian Sea

The Depression over eastcentral Arabian Sea moved west-northwestwards with a speed of 12 kmph during past 6 hours and lay centered at 0600 UTC of today, the 25th October 2025, over the same region, near latitude 16.6°N & longitude 69.8°E, about 450 km west-northwest of Panjim (Goa), 430 km southwest of Mumbai (Maharashtra), 680 km northwest of Mangalore (Karnataka) and 690 km northnorthwest of Aminidivi (Lakshadweep).

It is likely to move nearly northwestwards across Eastcentral Arabian Sea during next 24 hours.

Depression over Southeast Bay of Bengal

The depression over southeast Bay of Bengal moved nearly westwards with a speed of 7 kmph during past 6 hours and lay centred at 0600 UTC of today, the 25th October 2025, over the same region, near latitude 10.8°N & longitude 88.6E, about 460 km west-southwest of Port Blair (Andaman & Nicobar Islands), 950 km east-southeast of Chennai (Tamil Nadu), 960 km southeast of Visakhapatnam (Andhra Pradesh), 970 km southeast of Kakinada (Andhra Pradesh) and 1030 km south-southeast of Gopalpur (Odisha).

It is likely to move nearly west-northwestwards, intensify into a deep depression by 26th and into a cyclonic storm over southwest & adjoining westcentral Bay of Bengal by 27th/ 0000 UTC. Thereafter it is likely to move northwestwards, then north-northwestwards and intensify into a severe cyclonic storm by 0000 UTC of 28th October. Continuing to move north-northwestwards, it is very likely to cross Andhra Pradesh coast between Machilipatnam and Kalingapatnam around Kakinada during 1200-1800 UTC of 28th October as a severe cyclonic storm with a maximum sustained wind speed of 90-100 kmph gusting to 110 kmph.

Environmental Features based on 0300 UTC:

| Parameter | Bay of Bengal (BoB) | Arabian Sea (AS) | | |
|-------------------------------------|---|---|--|--|
| Sea Surface Temperature (SST) °C | Around 30-31°C over northeast BoB, eastcentral BoB, Around 29 - 30°C south Andhra Pradeshnorth Tamil Nadu coasts. 28-30°C over rest of the BoB. | Around 29 - 30°C over eastcentral adjoining southeast Arabian Sea, Lakshadweep Island, Maldives, Comorin areas, along and off Kerala, Karnataka coast, parts of northwest Arabian Sea. 26-27°C over rest of the Arabian Sea. | | |

| Tropical Cyclone Heat Potential (TCHP) kJ/cm2 | 100-130 over northeast BoB, eastcentral BoB, south Andaman Sea and southern parts of south BoB. 50-80 over rest of BoB. | > 90-120 over southeast AS, Lakshadweep Islands, | | |
|--|--|--|--|--|
| Cyclonic Relative - vorticity (X10 ⁻⁶ s ⁻¹) | ➤ 100-110 over the system extending westward upto 500 hPa level. | ➤ 50-70 over the system extending southwestwards and extending upto 500 hPa level. | | |
| Low-Level convergence (X10-6 s-1) | 10-20 over the system area extending westward. | 5-10 over the system area and to the southeast of the system. | | |
| Upper-Level divergence (X10-6 s-1) | 20 over the system area, over south Andaman Sea & over south BoB. | 10-20 over the system area | | |
| Vertical Wind Shear (VWS knots) Low: 05-10 knots Moderate: 10-20 knots High: >20 knots | Low to moderate over the system area and its forecasted path, adjoining areas. | Low to moderate over the system area, 20 kt to its surroundings | | |
| Wind Shear Tendency (knots) | Decreasing over system area, along the forecast path | Increasing along the forecast path | | |
| Upper tropospheric Ridge | Near 19.5 ⁰ N. | Near 18 ⁰ N. | | |

Over the BoB & Andaman Sea:

As per INSAT As per INSAT 3DS imagery at 0300 UTC of 25th October, vortex over southeast Bay of Bengal & neighbourhood lay centred near 10.8°N/88.9° E with Intensity T1.5. Associated scattered to broken low/med clouds with embedded intense to very intense convection lay over south & adjoining central Bay of Bengal (minimum cloud top temperature is minus 70 to 90 degree Celsius) and moderate to intense convection lay over northeast Bay of Bengal (minimum cloud top temperature is minus 40 to 70 degree Celsius).

Scattered to broken low/med clouds with embedded intense to very intense convection lay over westcentral & south Bay of Bengal and south Andaman Sea. Scattered low and medium clouds with embedded isolated moderate to intense convection lay over northeast Bay of Bengal and weak to moderate convection lay over northwest Bay of Bengal and north Andaman Sea .

Over the Arabian Sea:

As per INSAT 3DS imagery at 0300 UTC of 25th October, vortex over eastcentral Arabian Sea & neighbourhood lay centred near 16.3°N/69.6° E with Intensity T1.5.

Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over central & south Arabian Sea, Lakshadweep Islands,

Maldives and Comorin area (minimum cloud top temperature is minus 70 to 90 degree Celsius).

Outside India:

South Indian Ocean:

Vortex (CHENGE) over South Indian Ocean (AREA D20 adj D35) centered near 8.5°S/52.5°E. Intensity T2.5/3.0. Maximum sustained winds 34-47 kts. Associated scattered to broken low and medium clouds with embedded intense to very intense convection over area between latitude 8.0°S to 13.0°S Longitude 50.0°E to 58.0°E.

Scattered low & medium clouds with embedded moderate to intense convection over Sri Lanka, Palk Strait, Gulf of Mannar, Maldives, Tibet, China, Yellow Sea, East China Sea, Taiwan, Myanmar, Thailand, Gulf of Thailand, Cambodia, Laos, Vietnam, Gulf of Tonkin, Sumatra, Strait of Malacca, Malaysia, Borneo, South China Sea, Java Islands & Sea, Celebes Islands & Sea, Philippines, Sulu Sea and over Indian Ocean between latitude 5.0°N to 15.0°S Longitude 50.0°E to 120.0°E.

M.J.O. Index:

The guidance from ECMM model indicates that Madden Julian Oscillation (MJO) index is presently in phase 4 with amplitude around 2 and likely to remain in same phase with amplitude around 2 during next 1 day. It will enter phase 5 by 27th with amplitude around 2, move across phase 5 with decreasing amplitude reaching close to 1 till 30th October. Thereafter, it is likely to move across phase 5 with amplitude becoming less than 1 by 31st October. The phase and amplitude of MJO is highly favourable for enhancement of convective activity and also cyclogenesis over the Bay of Bengal (BoB) during 25th - 29th October and over North Bay of Bengal (BoB) during 29th-31st October.

Equatorial waves guidance:

Guidance from NCICS model indicates enhanced westerly wind anomaly over southern parts of the North Indian Ocean (NIO) including the south BoB & south Arabian Sea (AS) and adjoining Equatorial Indian Ocean (EIO) during 25th to 27th October with slight decreasing trend thereafter during 28th October-2nd November. The westerly wind burst is likely to prevail over the southern parts of the NIO and adjoining EIO till 30th October. The model also indicates prevalence of equatorial Rossby wave (ERW), MJO, low frequency background wave (LW) over the same region during 25th -30th October. The model guidance also indicates prevalence of easterly wind anomaly over westcentral BoB (7-9 mps) & over south Andaman Sea (3-5 mps) during initial few days of week 1. Thereafter easterly wind anomaly (1-3 mps) is likely over central parts of BoB. Over the AS, the model is indicating easterly wind anomaly (5-7 mps) over southwest & adjoining westcentral AS during 25th to 27th October. Thus, equatorial waves are likely to support the cyclonic disturbances to maintain its intensity both over southeast Arabian Sea and over the south BoB during 25th to 27th October.

NWP Guidance for FDP Cyclone:

| MODEL | Bay of Bengal (BoB) | Arabian Sea (AS) | |
|----------|---|---------------------------|--|
| GUIDANCE | | | |
| IMD-GFS | It is not indicating any depression. LPA over | | |
| | southwest & adjoining southeast BoB as of | eastcentral and adjoining | |

| | today 25/00 UTC moving westwards and less marked thereafter. | westcentral Arabian Sea as of today 25/00 UTC. It will move west-northewestwards towards Oman coast till 28 th October as Deep depression. | | | |
|--------------------|---|---|--|--|--|
| IMD-GEFS | | _ | | | |
| IMD-WRF | - | _ | | | |
| BFS | LPA over southeast BoB as of today 25/00 UTC moving westwards and less marked by 28/00 UTC. | Deep Depression over eastcentral and adjoining westcentral Arabian Sea as of today 25/00 UTC. It will move west-northewestwards towards Oman coast till 29 th October as Deep depression and Weakening thereafter. | | | |
| NCMRWF- NCUM(G) | LPA over southeast BoB as of today 25/00 UTC moving west-northwestwards & become depression on 28/00 UTC over westcentral & adjoining southwest BoB. It will move in the same direction & reach the Andhra Pradesh coast on 30 th /00 UTC as depression. It will move along the coast thereafter as LPA till 03 rd Nov/00 UTC. | LPA over westcentral adjoining eastcentral Arabian Sea as of today 25/00 UTC. It will move northwestwards till 02 nd November/00 UTC over westcentral AS. Weakening thereafter. | | | |
| NCMRWF- NCUM(R) | - | _ | | | |
| ECMWF | Depression over southeast BoB as of today 25/00 UTC moving west-northwestwards and intensify into CS on 27/00 UTC over westcentral & adjoining southwest BoB. Continue to move in the same direction towards Andhra Pradesh coast & intensify further into SCS over westcentral BoB on 28/03 UTC. Moving then northwestwards & cross the Andhra Pradesh coast as Cyclonic Storm on 28/15 UTC. Moving over the land in the same direction while weakening. | Arabian Sea as of today 25/00 UTC. It will move nearly north-northeastwards till 29/06 UTC as a depression and lay over the same region. Then it will move it will move in the same direction and reach Gujarat coast as an extended Low. | | | |
| NCEP-GFS | Depression over southeast BoB as of today 25/00 UTC moving west-northwestwards and become CS on 26/12 UTC over westcentral & adjoining southwest BoB. Moving in the same direction & intensify further into SCS over westcentral BoB on 27/12 UTC. Moving then northwestwards & touch the Andhra Pradesh coast as D on 29/12 UTC. It will then move along the coast while weakening till 30/00 UTC. | westwards JTC over 25/00 UTC. It will move northeastwards towards Gujarat coast as WML/D till 01st November. It will then move along the coast while | | | |

| EC-AIFS | Depression over southeast BoB as of today | • |
|---------|--|--------------------------------------|
| | 25/00 UTC moving west-northwestwards | riidalaii Ood do oi ioday |
| | and intensify into DD on 27/00 UTC over westcentral & adjoining southwest BoB. | |
| | Continue to move in the same direction & | north-northeastwards till |
| | cross the Andhra Pradesh coast as D/DD | 29/00 UTC and lay over the |
| | on 28/18 UTC | same region as depression. |
| | | It will then move |
| | | northwestwards till 02 nd |
| | | November while weakening. |

Summary:

(a) Bay of Bengal:

Numerical models ECMWF, EC-AIFS, NCEP-GFS are indicating the formation of depression as of today the 25th October. Models are also indicating its west-northwestwards movement initially and northwestwards thereafter during next 4 days with further intensification into a cyclonic storm. Considering the guidance from all models, it can be inferred that a depression has formed over southeast Bay of Bengal, having west-northwestwards movement and its further intensification into cyclonic storm during next 24 hours and its further intensification into severe cyclonic storm during subsequent 48 hours.

(b) Arabian Sea

Numerical models ECMWF, EC-AIFS, NCEP-GFS are indicating nearly north-northeast ward movement of the existing depression across eastcentral Arabian Sea during next 3 -4 days without further intensification, and gradual weakening thereafter. However, IMD-GFS, BFS models are indicating its northwestward movement during next 3-4 days while weakening.

Inference:

Considering various environmental features and model guidance, it is inferred that:

- (a) The Depression over the eastcentral Arabian Sea is likely to move nearly northwestwards across Eastcentral Arabian Sea during next 24 hours.
- (b) The Depression over southeast Bay of Bengal moved nearly westwards, and lay centred at 0300 hrs UTC of today the 25th October 2025, over the same region. It is likely to move nearly west-northwestwards, intensify into a deep depression by 26th and into a cyclonic storm over southwest & adjoining westcentral Bay of Bengal by 27th 0300 UTC. Thereafter it is likely to move northwestwards, then north-northwestwards and intensify into a severe cyclonic storm by 0300 UTC of 28th October. Continuing to move north-northwestwards, it is very likely to cross Andhra Pradesh coast between Machilipatnam and Kalingapatnam around Kakinada around 1300 UTC of 28th October as a severe cyclonic storm.

All the systems are under continuous watch and regular updates are issued in this regard.

<u>Probability of cyclogenesis (formation of depression and above intensity</u> systems) over the Bay of Bengal during next 168 hours:

| 24 | 24-48 | 48-72 | 72-96 | 96-120 | 120-144 | 144-168 |
|-------|-------|-------|-------|--------|---------|---------|
| HOURS | HOURS | HOURS | HOURS | HOURS | HOURS | HOURS |
| - | - | - | - | - | - | - |

<u>Probability of cyclogenesis (formation of depression and above intensity systems) over the Arabian Sea during next 168 hours:</u>

| - | • | - | - | NIL | NIL | NIL |
|-------|-------|-------|-------|--------|---------|---------|
| HOURS | HOURS | HOURS | HOURS | HOURS | HOURS | HOURS |
| 24 | 24-48 | 48-72 | 72-96 | 96-120 | 120-144 | 144-168 |

[&]quot;- "indicates genesis has already occurred.

Probability is indicated as NIL for 0%, LOW for 1-33%, MOD for 34-67% and High for 68-100%.

Every 24 hrs forecast ends at the 0300 UTC of date.

Intense Observation Period (IOP): IOP for Kerala during 25th to 26th, Karnataka, Konkan, Goa during 25th to 28th; south Gujarat during 25th; entire Gujarat during 26th to 28th; Tamil Nadu and Sri Lanka during 25rd to 28th October; Andhra Pradesh during 25th to 30th October, Odisha during 26th to 30th

Warnings in association with system over Arabian Sea:

(i) Wind warning:

- Squally wind with speed reaching 45-55 gusting to 65 kmph prevailing around the system center and continue to prevail over Eastcentral and adjoining Southeast Arabian Sea till 26th October.
- ➤ Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely to prevail over Lakshadweep & Comorin Area and along & off Karnataka and Kerala coasts till 26th October, and wind speed reaching 35-45 kmph gusting to 55 kmph is very likely to prevail over northeast Arabian Sea and along & off Maharashtra and Gujarat coasts on 25th and 26th October.

(ii) Sea condition:

- > Sea Condition is likely to be rough to very rough over Eastcentral and adjoining Southeast Arabian Sea till 26th October.
- ➤ Sea Condition is likely to be rough over Lakshadweep & Comorin Area and along & off Karnataka and Kerala coasts till 26th October.
- ➤ Sea Condition is likely to be moderate to rough over northeast Arabian Sea and along & off Maharashtra and Gujarat coasts on 25th and 26th October.

(iii) Fishermen warnings:

Fishermen are advised not to venture into Eastcentral and adjoining Southeast Arabian Sea a, Lakshadweep & Comorin Area and along & off Karnataka and Kerala coasts till 26th October, and northeast Arabian Sea and along & off Maharashtra and Gujarat coasts on 25th and 26th October.

(iv) Impact Expected and Action Suggested due to heavy rain and strong winds (Lakshadweep Islands, Kerala and coastal Karnataka) Impact expected:

- Breaking of tree branches. Strong wind and heavy rain may damage plantation, horticulture and standing crops.
- Minor damage to kutcha houses/walls, huts and roads due to strong winds and heavy rain.
- * Road and rail traffic may be affected due to heavy rain.

- There could be localised flash floods, landslides, mudslides, landslips, water logging, inundation and flooding over low lying areas.
- Occasional reduction in visibility due to heavy rainfall.
- Surface & Helicopter services may be regulated.
- Small ships & country boats would be affected due to strong wind and heavy rain.

Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- ❖ Take safe shelters; do not take shelter under trees, as there could be lightning.
- In case of expected lightning, unplug electrical/ electronic appliances, immediately, get out of water bodies and keep away from all the objects that conduct electricity.
- ❖ Tourism and recreational activities to be regulated.
- Surface transport and helicopter services to be regulated.

Warnings in association with expected system over Bay of Bengal:

i. Wind warning:

- Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is prevailing over southeast Bay of Bengal and adjoining areas of Eastcentral Bay of Bengal. It is likely to increase becoming 45-55 kmph gusting to 65 kmph over central parts of Bay of Bengal from evening of 25th.
- Winds will further increase and becoming Gale wind speed reaching 60-70 kmph gusting to 80 kmph over southwest and adjoining areas of southeast & West central Bay of Bengal Bay of Bengal from 26th October evening.
- ❖ Thereafter winds would further increase becoming 80-90 kmph gusting to 100 kmph over westcentral and adjoining northwest Bay of Bengal from 27th October evening and would further increase 90 to 100 kmph from 28th October morning.
- Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail along & off Tamil Nadu Puducherry coast during from 25th to 28th October,
- Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail along & off Andhra Pradesh & Yanam (of Puducherry) coasts from 25th October. It is likely to increase becoming 45-55 kmph gusting to 65 kmph from 27th morning and gale wind speed reaching 60-70 kmph gusting to 80 kmph from 28th morning, becoming 90-100 kmph gusting to 110kmph from 28th evening to early hours of 29th October and becoming 60-70kmph gusting to 80 kmph by 29th October noon. The winds would further decrease becoming 45-55 kmph gusting 65 kmph by 29th October evening and decrease gradually thereafter.
- ❖ Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail along & off south Odisha coast from 26th evening. It is likely to increase becoming 45-55 kmph gusting to 65 kmph from 27th evening and becoming gale wind speed reaching, 60-70 kmph gusting to 80 kmph from 28th evening to early hours of 29th October early hours along and off south Odisha coast, becoming 45-55 kmph gusting to 65 kmph till 29th October evening and decrease gradually thereafter. Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail from 28th evening to early hours of 29th October early hours along and off north Odisha coast, becoming 40-50 kmph gusting to 60 kmph till 29th October evening and decrease gradually thereafter.

ii Sea condition:

- Sea Rough to very rough sea conditions is very likely over southeast and adjoining areas of Eastcentral Bay of Bengal, becoming very rough over central parts of Bay of Bengal from evening of 25th and high 26th evening to 28th morning.
- Sea conditions is very likely to be very rough to high over southwest and adjoining areas of West central Bay of Bengal from 26th October evening.

- Sea conditions is very likely to be high to very high over westcentral and adjoining northwest Bay of Bengal from 27th October evening, becoming very high from 28th October morning till 29th early hours, becoming high by noon of 29th and becoming very rough to rough during subsequent 12 hours.
- Sea condition is very likely to be rough to very rough along & off Tamil Nadu Puducherry coast during from 25th to 28th October,
- ❖ Sea condition is very likely to be rough to very rough along & off Andhra Pradesh & Yanam (of Puducherry) coasts during 25th -27th October morning. It would further worsen becoming very rough to high from 28th morning onwards and very high from 28th evening to 29th October early hours, becoming high till noon of 29th October and very rough to rough during subsequent 12 hours.
- Sea conditions is very likely to be rough to very rough along & off Odisha coast from 26th evening to 27th evening. It would worsen further becoming high from 28th morning to till 29th October early hours. It is likely improve gradually becoming very rough to rough during subsequent 12 hours. \

iii. Storm Surge Warning

Strom surge of height about 1 m above astronomical tide is likely to cause inundation over low-lying areas of coastal Andhra Pradesh & Yanam (of Puducherry) around the landfall time.

iii. Fishermen warnings:

Fishermen are advised not to venture into Southwest, adjoining central Bay of Bengal, along & off Tamil Nadu - Andhra Pradesh & Yanam (of Puducherry) coasts till 29th October and along & off Odisha coast from 26th October to 29th October. Those out at sea area should return to the coast immediately.

iv.

Impact Expected and Action Suggested due to heavy rain and strong winds (Andhra Pradesh & Yanam of Puducherry and South Odisha coasts)

Impact expected:

- Major damage to thatched houses/ huts. Roof tops may blow off. Unattached metal sheets may fly.
- Damage to power and communication lines.
- ❖ Major damage to Kutcha and some damage to Pucca roads. Flooding of escape routes.
- ❖ Breaking of tree branches, uprooting of large avenue trees. Large-scale damage to banana and papaya trees. Large dead limbs blown from trees.
- Damage to paddy crops, horticultural and standing crops and orchards due to inundation & winds.
- Inundation of low-lying areas in coastal districts due to heavy rainfall and flash flood
- ❖ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic due to water logging and squally winds
- ❖ Localized Landslides/Mudslides It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)
- Damage to embankments/ salt pans.

Action suggested:

- Total suspension of fishing operations.
- ❖ Coastal hutment dwellers to be moved to safer places. People in affected areas to remain indoors.
- ❖ Movement in motor boats unsafe.

- ❖ Judicious regulation of offshore/onshore operations
- ❖ People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- ❖ Take safe shelters; do not take shelter under trees, as there could be lightning.
- ❖ In case of expected lightning, unplug electrical/ electronic appliances, immediately, get out of water bodies and keep away from all the objects that conduct electricity.
- ❖ Tourism and recreational activities to be regulated.
- Surface transport and helicopter services to be regulated.

ANNEXURE









