

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

Tropical Cyclone Forecast Programme Report Dated 24th 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 north-northeastwards with a speed of 20 kmph during past 6 hours and lay centered at 0600 UTC of today, the 24th October 2025, over the eastcentral Arabian Sea, near latitude 14.4°N & longitude 70.7°E, about 360 km west-southwest of Panjim (43192, India), 430 km north-northwest of Aminidivi (43311, India), 480 km west-northwest of Mangalore (43284, India) and 570km south-southwest of Mumbai (43003, India).

It is likely to continue to move nearly north-northeastwards across Eastcentral Arabian Sea during next 24 hours.

Low pressure area over Southeast Bay of Bengal

The low pressure area over southeast Bay of Bengal slowly moved west-northwestwards during past 3 hours and lay over the same region at 0600 UTC of today, the 24th October 2025.

It is likely to move west-northwestwards, intensify into a depression over southeast and adjoining central Bay of Bengal by 25th and further into a deep depression by 26th and into a cyclonic storm over southwest & adjoining westcentral Bay of Bengal by 0300 UTC of 27th.

Environmental Features based on 0300 UTC:

Environmental reatures based on 0300 OTC.					
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,			

Cyclonic Relative - vorticity (X10 ⁻⁶ s ⁻¹)	➤ 100-110 over the system extending upto 500 hPa level.				
Low-Level convergence (X10-6 s-1)	30-40 over west of the system area.	> 15-20 over west of the system area.			
Upper-Level divergence (X10-6 s-1)	➤ 30-40 over west of the system area and over southwes BoB				
Vertical Wind Shear (VWS knots) Low: 05-10 knots Moderate: 10-20 knots High: >20 knots	Low to moderate over the system area..	Low to moderate over the system area and over eastcentral AS.			
Wind Shear Tendency (knots)	Decreasing over system area, Andaman Sea and south BoB.	Increasing over system area and along westcentral AS..			
Upper tropospheric Ridge	Near 19 ⁰ N.	Near 18 ⁰ N.			

Over the BoB & Andaman Sea:

As per INSAT 3DS imagery at 0300 UTC of 24th October, associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over south and adjoining central Bay of Bengal (minimum cloud top temperature is minus 70 to 90 degree Celsius).

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

Over the Arabian Sea:

As per INSAT 3DS imagery at 0300 UTC of 24th October, vortex over eastcentral Arabian Sea & neighbourhood lay centered within half a degree of 13.8°N/70.3° E with Intensity T1.5. Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over eastcentral and adjoining southeast Arabian Sea and Lakshadweep Islands area. The minimum cloud top temperature is minus 70 to 90 degree Celsius.

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over eastcentral & south Arabian Sea, Lakshadweep Islands area, Maldives and Comorin area. Scattered low to medium clouds with embedded isolated weak to moderate convection lay over westcentral Arabian Sea.

Outside India:

South Indian Ocean:

Vortex (CHENGE) over South Indian Ocean (AREA E35) centered near 9.8°S/56.1°E. Intensity T2.5/2.5. 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 and likely to remain in same phase with amplitude around 2 during next 1 days and decreasing amplitude reaching close to 1 till 29th 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 24th - 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 24th 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 24th -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 24th 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 24th to 27th October.

NWP Guidance for FDP Cyclone:

MODEL	Bay of Bengal (BoB)	Arabian Sea (AS)		
GUIDANCE				
IMD-GFS	LPA over southeast BoB as of today 24/00 UTC. It will move west-northwestwards and intensifying into depression over southeast adjoining southwest BoB (11.5°N/87°E) on 25/00 UTC. Moving in the same direction till 28/00 UTC with intensification upto SCS or more over westcentral BoB. Thereafter, it will move north-northwestwards and cross north Andhra Pradesh coast on 29 th October while weakening.	Depression over eastcentral and southeast Arabian Sea as of today 24/00 UTC. It will move nearly northeastwards towards Maharashtra coast till 29 th October as depression. It will continue to move towards north Maharashtra coast while weakening till 31/00 UTC.		
IMD-GEFS	LPA over southeast BoB as of today 24/00 UTC. It will move west-northwestwards and intensifying into depression over southeast	Depression over eastcentral and southeast Arabian Sea as of today 24/00 UTC. It will		

IMD-WRF	adjoining southwest BoB (11.5°N/87°E) on 25/00 UTC. Moving in the same direction till 28/00 UTC with intensification upto SCS or more over westcentral BoB. Thereafter, it will move north-northwestwards and cross north Andhra Pradesh coast on 29 th October while weakening. LPA over southeast BoB as of today 24/00 UTC. It will move west-northwestwards and intensifying into depression over southeast BoB (11.5°N/88°E). continue to move into same direction and will intensify future 27/00.	move nearly northeastwards towards Maharashtra coast till 29 th October as depression. It will continue to move towards north Maharashtra coast while weakening till 31/00 UTC. Depression over eastcentral adjoining southeast Arabian Sea as of today 24/00 UTC. It will move nearly northeastwards across eastcentral AS for next 3 days while intensifying further.
BFS	LPA over southeast BoB as of today 24/00 UTC. It will move west-northwestwards and intensifying into depression over southeast adjoining southwest BoB (11 ⁰ N/87 ⁰ E) on 25/00 UTC. Moving in the same direction till 28/00 UTC with intensification upto SCS or more over westcentral BoB. Thereafter, it will move north-northwestwards and cross north Andhra Pradesh coast on 29 th October while weakening.	Depression over eastcentral and southeast Arabian Sea as of today 24/00 UTC. It will move nearly northeastwards towards north Maharashtra coast while intensifying slightly till 31st October.
NCMRWF- NCUM(G)	LPA over southwest BoB at 11°N/84°E on 25/00 UTC. It will move west-northwestwards towards south Andhra Pradesh coast and become depression on 27/00 UTC over southwest adjoining westcentral BoB.	LPA over eastcentral adjoining southeast Arabian Sea as of today 24/00 UTC. It will move west-northwestwards towards yemen coast and becoming depression on 30 th October over westcentral AS. Weakening thereafter.
NCMRWF- NCUM(R)	LPA over southeast adjoining southwest BoB as of today 24/00 UTC. It will move west-northwestwards and become depression over southwest BoB at 9.9°N/85.5°E on 25/00 UTC and continue to move in the same direction till 27 th October with slight intensification.	adjoiing southeast having north-northwestwards movement till 27 th October without intensification.
ECMWF	LPA over southeast BoB at 11°N/89.2°E as of 24/00 UTC. It will move west-northwestwards and become depression over southeast BoB on 25/00 UTC. It will continue to move in the same direction towards AP coast with further intensification till 28/09 UTC. Thereafter it will move northwestwards and cross the coast on 29/00 UTC while weakening further over	Depression over eastcentral adjoining southeast Arabian Sea as of today 24/00 UTC. It will move nearly northwards till 26/21 UTC as a depression. Then it will move northeastwards towards and lay over

NCEP-GFS	LPA over southeast BoB as of today 24/00 UTC. It will move west-northwestwards and intensify into depression over southeast BoB at 11°N/89°E on 25/00 UTC. Moving in the same direction till 28/00 UTC with intensification upto SCS or more over westcentral BoB. Thereafter, it will move north-northwestwards towards Odisha coast till 30 th October while weakening.	eastcentral adjoining northeast AS on 3100 UTC as a depression. Depression over eastcentral adjoining southeast Arabian Sea as of today 24/00 UTC. It will move northnortheastwards till 01st November with further intensification. Thereafter it will move northwestwards.
EC-AIFS	LPA over southeast BoB as of today 24/00 UTC. It will move west-northwestwards and intensify into depression over southeast BoB on 25/06 UTC. Thereafter, it will move in the same direction towards Andhra Pradesh coast while intensifying further into DD or more by 28/00 UTC and lay over westcentral BoB. Thereafter, it will move west-northwestwards while weakening and cross the coast as depression on 29/06 UTC. Less marked thereafter.	Depression over eastcentral adjoining southeast Arabian Sea as of today 24/00 UTC. It will move nearly northwards till 27/06 UTC as a depression. Then it will move west-northwestwards while weakening and lay over westcentral AS as LPA on 01 st November.

Summary:

(a) Bay of Bengal:

Most of the models are indicating the low-pressure area over Southeast Bay of Bengal as of today, the 24th October. Models are also indicating its movement towards west-northwestwards initially and northwestwards thereafter during next 3 days with further intensification into a cyclonic storm. Considering the guidance from all models, existing low-pressure area over southeast Bay of Bengal is having west-northwestwards movement and its further intensification into depression around 25th October and into cyclonic storm during subsequent 2 days.

(b) Arabian Sea

There is a variation among the models with respect to the movement of the system. However, most of the models are indicating north-northeastward movement of the existing depression over eastcentral Arabian Sea during next 4-5 days. Models are not indicating its further intensification.

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 northnortheastwards across Eastcentral Arabian Sea during next two days.
- (b) The low pressure area over southeast Bay of Bengal is likely to move westnorthwestwards, intensify into a depression over southeast and adjoining central

Bay of Bengal by 25th and further into a deep depression by 26th and into a cyclonic storm over southwest & adjoining westcentral Bay of Bengal by 27th morning.

- i) Confidence level in forecast of intensification (formation of Depression): High
- ii) Confidence level in forecast of location of Depression: High

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 systems) over the Bay of Bengal during next 168 hours:</u>

24	24-48	48-72	72-96	96-120	120-144	144-168
HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS
NIL	MOD	High	-	-	-	-

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

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

[&]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 24th to 26th, Karnataka, Konkan, Goa during 24th to 28th; south Gujarat during 24th to 25th; entire Gujarat during 26th to 28th; Tamil Nadu and Sri Lanka during 24rd to 28th October; Andhra Pradesh during 24th 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 wind Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail over southeast Bay of Bengal and Andaman Sea & adjoining areas of Eastcentral Bay of Bengal till 24th October. It is likely to increase becoming squally wind speed reaching 50-60 kmph gusting to 70 kmph over central parts of Bay of Bengal on 25th and
- ➢ Gale wind speed reaching 60-70 kmph gusting to 80 kmph from 26th October evening onwards till 27th evening. It is likely to increase becoming Gale wind speed reaching 70-80 kmph gusting 90 kmph over westcentral and adjoining northwest Bay of Bengal till 29th October.
- ➤ Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail along & off Tamil Nadu Puducherry coast from 25th to 28th October, along & off Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail along & off Andhra Pradesh coast from 25th October. It is likely to increase becoming 45-55 kmph gusting to 65 kmph from 26th evening and gale wind speed reaching 60-70 kmph gusting to 80 kmph from 27th evening till 29th October.
- Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail along & off Odisha coast from 26th October. It is likely to increase becoming 45-55 kmph gusting to 65 kmph from 27th and 50-60 kmph gusting to 70 kmph from 28th till 29th October.

Sea condition:

➤ Sea condition is likely to be moderate to rough over southeast Bay of Bengal and adjoining areas Andaman Sea & eastcentral Bay of Bengal till 24th October.

- ➤ Sea condition is likely to be rough to very rough over central parts of Bay of Bengal on 25th October and becoming high from 26th evening onwards.
- ➤ Sea condition is likely to be moderate to rough over along & off Tamil Nadu Puducherry coasts during 25th & 26th October. It is likely to become rough to very rough from 26th evening onwards till 27th October and becoming very rough to high over westcentral and adjoining northwest Bay of Bengal from 28th October till 29th October.
- ➤ Sea condition is likely to be moderate to rough over along & off Andhra Pradesh coast during 25th. It is likely to become rough to very rough from 26th evening onwards till 27th October and high from 28th till 29th October.
- ➤ Sea condition is likely to be moderate to rough over along & off Odisha coast from 26th October. It is likely to become rough to very rough on 27th and very rough to high from 28th till 29th October.

iii. Fishermen warnings:

iv. Fishermen are advised not to venture into Southwest, adjoining central Bay of Bengal, along & off Tamil Nadu - Andhra Pradesh coasts from 25th October onwards and along & off Odisha coast from 26th onwards.

Impact Expected and Action Suggested due to heavy rain and strong winds (Andaman & Nicobar Islands, Tamil Nadu, South Interior Karnataka and Andhra Pradesh)

Impact expected:

- Heavy rain may damage plantation, horticulture and standing crops.
- Minor damage to kutcha houses/walls, huts and roads due to 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.

ANNEXURE























