



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

**Tropical Cyclone Forecast Programme
Report Dated 23rd October 2025**

Time of Issue: 1300 UTC

Synoptic features (based on 0300 UTC analysis):

- The Depression over southeast Arabian Sea moved slowly northeastwards with a speed of 5 kmph during past 6 hours and lay centered at 0830 hrs IST of today, the 23rd October 2025, over the same region, near latitude 9.8°N & longitude 67.8°E, about 560 km west-southwest of Aminidivi (Lakshadweep) and 910 km southwest of Panjim (Goa). It is likely to move nearly north-northeastwards across southeast Arabian Sea towards eastcentral Arabian Sea during next 24 hours.
- The low pressure area over north interior Tamil Nadu and adjoining south interior Karnataka moved west-northwestwards and lay over south interior Karnataka & neighbourhood at 0830 hrs IST of today, the 23rd October 2025. The associated cyclonic circulation extended upto middle tropospheric levels. It is likely to continue to move west-northwestwards across south Karnataka and emerge over eastcentral & adjoining southeast Arabian Sea during next 24 hours.
- The upper air cyclonic circulation over south Andaman Sea & neighbourhood lay over southeast Bay of Bengal adjoining South Andaman Sea extending upto 5.8 km above mean sea level. Under its influence, a low pressure area is likely to form over southeast & adjoining eastcentral Bay of Bengal on 24th October 2025. It is likely to move west-northwestwards and become more marked during subsequent 24 hours.

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, south Andhra Pradesh-north Tamil Nadu coasts. ➤ 28-30°C over rest of the BoB.	➤ Around 29 - 30°C over eastcentral & southeast Arabian Sea, Lakshadweep Island, Maldives, Comorin areas, along and off Kerala, south 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.	➤ 90-140 over southeast AS, Lakshadweep Islands, Maldives islands and Comorin area. ➤ 20-70 over rest AS.
Cyclonic Relative - vorticity (X10⁻⁶s⁻¹)	➤ 60-70 over southeast and adjoining southwest BoB and along the coast of Tamil Nadu & south Andhra	➤ 50-70 over south AS, Lakshadweep islands area, Maldives, Comorin area extending upto 500

	Pradesh coast and south Andaman Sea extending upto 500 hPa level.	hPa.
Low-Level convergence (X10-6 s-1)	➤ 10-15 over Southeast BoB and adjoining south Andaman Sea. ➤ 5-10 over south adjoining central BoB.	➤ 10-20 over Lakshadweep, Karnataka coast and Kerala coast. ➤ 05-15 over eastcentral, southeast and adjoining westcentral AS.
Upper-Level divergence (X10-6 s-1)	➤ 10-30 over the central parts of south BoB and adjoining central BoB. ➤ 5-10 over south Andaman Sea.	➤ 10-20 over westcentral AS, along and off Maharashtra & Karnataka coast. ➤ 05-10 over southeast AS and some parts of westcentral & adjoining southwest AS.
Vertical Wind Shear (VWS knots) Low: 05-10 knots Moderate: 10-20 knots High: >20 knots	➤ Low to moderate over central BoB and adjoining north & south BoB. ➤ High over rest of BoB.	➤ Low to moderate over central parts of central AS. ➤ Moderate to high over rest of AS. ➤ Low over the system.
Wind Shear Tendency (knots)	➤ Increasing over system area, north Andaman Sea and southwest BoB. ➤ Decreasing over south Andaman Sea and southeast BoB.	➤ Increasing over system area and along westcentral AS. ➤ Decreasing over northeast AS and along and off south Gujarat coast.
Upper tropospheric Ridge	Near 19° N.	Near 19° N.

Over the BoB & Andaman Sea:

As per INSAT 3D imagery at 0300 UTC of 23rd October, vortex over south interior Karnataka adjoining north interior Tamil Nadu and neighbourhood. Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over costal Andhra Pradesh, Rayalaseema, Telangana, Karnataka, southwest & westcentral Bay of Bengal. Moderate to intense convection lay over Kerala, Tamil Nadu (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 northeast, south & central Bay of Bengal, south Andaman Sea and isolated moderate convection lay over north Andaman Sea.

Over the Arabian Sea:

As per INSAT 3D imagery at 0300 UTC of 23rd October, vortex over southeast Arabian Sea & neighbourhood lay centered within half a degree of 9.8°N/67.8° E with Intensity T1.5. Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over south & adjoining central Arabian Sea between latitude 7.0°N to 18.0° N and longitude 54.0°E to 74.0° E. 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 Central & South Arabian Sea, Lakshadweep Islands, Maldives and Comorin area.

Outside India:

South Indian Ocean:

Vortex (CHENGE) over South Indian Ocean (AREA E60 ADJ D40) centered near 10.1°S/ 60.4°E . Intensity T3.0/3.5. Maximum sustained winds 48-63 kts. Associated scattered to broken low and medium clouds with embedded intense to very intense convection over area between latitude 4.0°S to 16.0°S Longitude 55.0°E to 62.0°E.

Scattered low & medium clouds with embedded moderate to intense convection over Sri Lanka, Palk Strait, Gulf of Mannar, Maldives, Tibet, China, South Myanmar, Thailand, Gulf of Thailand, Cambodia, Laos, Vietnam, Gulf of Tonkin, Hainan, Taiwan, East China Sea, 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 20.0°S Longitude 50.0°E to 120.0°E.

M.J.O. Index:

The guidance from ECMWF model indicates that Madden Julian Oscillation (MJO) index is presently in phase 4 & is likely to remain in same phase till 28th with amplitude around 2 till 24th October and decreasing gradually coming close to 1 around 28th October. Thereafter, it is likely to move across phase 5 with amplitude becoming less than 1. The phase and amplitude of MJO is highly favourable for enhancement of convective activity and also cyclogenesis over the Bay of Bengal (BoB) during 23rd- 28th October and over north BoB during 29th October- 5th November.

Equatorial waves guidance:

Guidance from NCICS model indicates enhanced westerly wind anomaly over southern parts of the North Indian Ocean (NIO) including the BoB & Arabian Sea (AS) and adjoining Equatorial Indian Ocean (EIO) during 23rd to 27th October with slight decreasing trend thereafter during 28th October-2nd November. Westerly wind burst is prevailing over the southern parts of the NIO and adjoining EIO till 30th October. The model is also indicating prevalence of equatorial Rossby wave (ERW), MJO wave, low frequency background wave (LW) over the same region during 23rd -30th October. The model is also indicating Kelvin wave (KW) over EIO and adjoining southwest AS and another over adjoining areas of southeast BoB during 23rd to 24th October. The guidance also indicates prevalence of easterly wind anomaly (7-9 mps) over westcentral BoB & 3-5 mps over south Andaman Sea during 23rd -24th October. 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 23rd to 27th October. Thus, equatorial waves are likely to support the depression over southeast Arabian Sea to maintain its intensity during 23rd to 27th October and over the BoB during 23rd to 27th October. Thereafter, the model is indicating weakening of easterly flow over the central & northern parts of BoB and similarly over the central & northern parts of AS. Weakening of westerly wind is also indicated thereafter.

NWP Guidance for FDP Cyclone:

MODEL GUIDANCE	Bay of Bengal (BoB)	Arabian Sea (AS)
IMD-GFS	Extended Low over southeast BoB on 24/00 UTC. It will become LPA over southeast on 25th October and intensify into SCS over southeast and adjoining southwest BoB at 10°N/86°E on 26/00 UTC. It will move west-northwestwards and lay centered at 11°N/83°E as SCS/VSCS on 27/00 UTC. Another system is seen over eastcentral BoB at 15.5°N/90°E on 27/00 UTC. Both will move west-northwestwards, 1st system lay close to Tamil Nadu coast at 12°N/81.5°E and 2nd system will lay close to south Odisha-north Andhra Pradesh coast on 28/00 UTC as VSCS. 1st system will move northeastwards and lay over westcentral BoB at 15.5°N/84°E as SCS on 29/00 UTC and will reach north Odisha coast by 30/00 UTC as a Depression.	Depression over southeast Arabian Sea as of today 23/00 UTC. It will move northeastwards towards south Gujarat coast till 01st November as depression and weaken thereafter.
IMD-GEFS	Extended Low over southeast BoB on 23/00 UTC. It will become LPA over southeast BoB at 11°N/85.7°E on 24/00 UTC and intensify into depression over same region at 11.5°N/84°E on 25/12 UTC. It will move west-northwestwards and become deep depression at 11.6°N/83°E on 26/00 UTC. Thereafter, it will move northwestwards towards Andhra Pradesh coast with gradual initial intensification till 28/12 UTC and then will weaken lay close to the coast on 29/12 UTC as Depression. Indicating crossing the coast as depression on 30th October.	Depression over southeast Arabian Sea as of today 23/00 UTC. It will move northeastwards towards south Gujarat coast till 01st November as depression and weaken thereafter.
IMD-WRF	Model is not indicating any significant system for the next three days.	Depression over southeast Arabian Sea as of today 23/00 UTC. It will move northeastwards till 25th October.
BFS	LPA over southeast BoB on 24/00 UTC. It will move west-northwestwards and intensify into depression at 11°N/87°E on 25/00 UTC. Thereafter, it will move in the same direction towards Andhra Pradesh coast & lay close to south Andhra Pradesh coast as SCS on 28/00 UTC. Then it will cross the coast on 29/00 as CS.	Depression over southeast Arabian Sea as of today 23/00 UTC. It will move northeastwards towards Konkan coast while weakening and will reach the coast as LPA on 01st November/00 UTC.
NCMRWF-NCUM(G)	LPA over southwest BoB at 10°N/81°E on 27/00 UTC. It will move northwestwards and become WML close to North Tamil Nadu-Andhra Pradesh coasts at 12.5°N/80.5°E on 29/00 UTC. Thereafter, it will cross the south	LPA over westcentral AS on 25/00 UTC. It will initially move northwestwards as LPA till 28/00 UTC. Thereafter, it will move west-

	Andhra Pradesh coast as WML around 30/00 UTC.	southwestwards towards north Somalia coast and become WML on 30/00 UTC and less marked thereafter.
NCMRWF-NCUM(R)	LPA over southwest BoB at 10°N/85.5°E on 24/00 UTC. It will move west-northwestwards and become depression at 11°N/84°E on 26/00 UTC.	Model is not indicating any significant system for the next three days.
ECMWF	LPA over southeast BoB at 11°N/89.2°E on 24/06 UTC. It will intensify into depression over southeast BoB at 11.2°N/87°E on 25/06 UTC. Thereafter, it will intensify into DD over southwest and adjoining westcentral BoB at 12.2°N/85.9°E, moving in the same direction towards Andhra Pradesh coast as DD till 28/03 UTC & reach coast by 28/18 UTC as D and will cross the coast on 29/00 UTC as D.	Depression over southeast Arabian Sea as of today 23/00 UTC. It will move northeastwards towards till 29/12 UTC as depression. Then it will move north-northeastwards till 02 nd November/00 UTC.
NCEP-GFS	LPA over southeast BoB at 10°N/90°E on 23/06 UTC. It will move northwestwards and intensify into depression over southeast BoB at 10.5°N/89.5°E on 23/18 UTC. Thereafter, it will move in the same direction towards Andhra Pradesh coast with gradual intensification till 28/06 UTC and lay over westcentral BoB. Thereafter, it will move north-northwestwards towards north Odisha coast while weakening and reach the coast on 30 th October as depression.	Depression over southeast Arabian Sea as of today 23/00 UTC. It will move northeastwards towards south Gujarat coast till 02 nd November as depression.
EC-AIFS	LPA over southeast BoB at 10°N/90°E on 24/06 UTC. It will move west-northwestwards and intensify into depression over southeast BoB at 10.7°N/87.9°E on 25/00 UTC. Thereafter, it will move in the same direction towards Andhra Pradesh coast while intensifying as CS at 13.9°N/83.1°E on 27/12 UTC and lay over westcentral BoB. Thereafter, it will move west-northwestwards and reach Andhra Pradesh coast & weaken into depression on 28/12 UTC. It will cross the coast around 29/00 UTC.	Depression over southeast Arabian Sea as of today 23/00 UTC. It will move northeastwards towards south Gujarat coast while slowly weakening till 02 nd November/00 UTC and less marked thereafter.

Summary:

(a) Bay of Bengal:

Most of the models are indicating development of a fresh low-pressure area over Southeast Bay of Bengal (with NCUM group is indicating over southwest BoB) during 24th to 27th October (with large variation in time of formation of low-pressure area. Considering average guidance from all models, a low-pressure area is likely over southeast and adjoining eastcentral BoB around 24th October. Models are also indicating west-northwestwards movement and further intensification of the low-pressure area around 25th October.

(b) Arabian Sea

Most of the models are indicating movement of the depression over southeast Arabian Sea and adjoining central Arabian Sea till 31st October/01 November. Models are also indicating emergence of existing well marked low pressure area over southwest Bay of Bengal to emerge into eastcentral Arabian Sea and merge with the depression over Arabian Sea around 00 UTC of 25th October.

Inference:

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

- (a) The Depression over southeast Arabian Sea is likely to move nearly north-north eastwards across southeast Arabian Sea towards eastcentral Arabian Sea during next 24 hours.
 - (b) Low pressure area over south interior Karnataka & adjoining north Kerala is likely to continue to move west-north westwards across north Kerala and emerge over eastcentral & adjoining southeast Arabian Sea during next 24 hours.
 - (c) A low pressure area is likely to form over southeast & adjoining eastcentral Bay of Bengal on 24th October 2025. It is likely to move west-northwestwards and become more marked during subsequent 24 hours.
- (i) Confidence level in forecast of formation of low pressure area: High
 - (ii) Confidence level in forecast of location of low pressure area: Moderate
 - (iii) Confidence level in forecast of intensification (formation of Depression): Moderate
 - (iv) Confidence level in forecast of location of Depression: Moderate

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

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

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

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

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

“- “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, Karnataka, South Tamil Nadu and west Sri Lanka coasts during 23rd to 26th October; Konkan, Goa coasts during 25th to 28th; south Gujarat coast during 26th to 30th; Andaman Islands during 24th-25th October.

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 Southeast and adjoining Eastcentral Arabian Sea till 25th 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, Kerala and adjoining South Tamil Nadu coasts till 25th October.

ii. Sea condition:

- Sea Condition is likely to be rough to very rough over Southeast and adjoining Eastcentral Arabian Sea till 25th October.
- Sea Condition is likely to be rough over Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts till 25th October.

iii. Fishermen warnings:

Fishermen are advised not to venture into Southeast & adjoining Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts till 25th October.

iv. Impact Expected and Action Suggested due to heavy rain and strong winds (Lakshadweep Islands & Kerala)

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:

ii. Wind warning:

- Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail over southeast Bay of Bengal and adjoining areas Andaman Sea & eastcentral Bay of Bengal till 24th October. It is likely to increase becoming

squally wind speed reaching 40-50 kmph gusting to 60 kmph over central parts of Bay of Bengal on 25th & 26th October.

- Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail along & off Tamil Nadu - Andhra Pradesh coasts during 25th & 26th October.

iii. 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 till 23rd October evening.
- Sea condition is likely to be rough over central parts of Bay of Bengal on 25th & 26th October.
- Sea condition is likely to be moderate to rough over along & off Tamil Nadu - Andhra Pradesh coasts during 25th & 26th October.

iv. Fishermen warnings:

Fishermen are advised not to venture into Southwest, adjoining central Bay of Bengal and along & off Tamil Nadu - Andhra Pradesh coasts 25th October onwards. Those out at sea should return to coast by 24th October evening.

iii. Impact Expected and Action Suggested due to heavy rain and strong winds (Tamil Nadu, Puducherry 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

















