



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

**Tropical Cyclone Forecast Programme
Report Dated 19th October 2025**

Time of Issue: 1200 UTC

Synoptic features (based on 0300 UTC analysis):

- The Well marked Low Pressure area over southeast Arabian Sea & Lakshadweep area off Kerala-Karnataka coasts persisted over the same region at 0830 hrs IST of today, 19th October 2025. It is likely to move west north-westwards and intensify into a depression during next 24 hours.
- The upper air cyclonic circulation over south Andaman Sea & adjoining southeast Bay of Bengal extending upto 1.5 km above mean sea level persists. Under its influence, A low pressure area is likely to form over southeast Bay of Bengal around 21st October. It is likely to move west-northwestwards and intensify further into a depression over central parts of south Bay of Bengal and adjoining westcentral Bay of Bengal during subsequent 48 hours.
- The upper air cyclonic circulation over Gulf of Munnar and neighbourhood lay over south Kerala & adjoining Comorin area at 0.9 km above mean sea level. The trough now runs from the cyclonic circulation associated with well marked Low-Pressure area over southeast Arabian Sea & Lakshadweep area off Kerala-Karnataka coasts to the southwest Bay of Bengal across cyclonic circulation over south Kerala & adjoining Comorin area and Sri Lanka at 0.9 km above mean sea level.
- An upper air cyclonic circulation lies over East Rajasthan adjoining West Madhya Pradesh at 3.1 km above mean sea level.

Environmental Features based on 0300 UTC:

Parameter	Bay of Bengal (BoB)	Arabian Sea (AS)
Sea Surface Temperature (SST) °C	<ul style="list-style-type: none"> ➤ Around 28-30°C over northwest and westcentral BoB along west Bengal coast to Andhra Pradesh coast, ➤ 30°C over rest of the BoB. 	<ul style="list-style-type: none"> ➤ Around 28 - 30 °C over eastcentral Arabian Sea, Lakshadweep Island, Maldives, Comorin areas, along and off Kerala, south Karnataka coast, parts of northwest Arabian Sea. ➤ 26-28°C over rest of the Arabian Sea.
Tropical Cyclone Heat Potential (TCHP) kJ/cm²	<ul style="list-style-type: none"> ➤ 100-130 over northeast BoB, eastcentral BoB, south Andaman Sea and southern parts of south BoB. ➤ 80-90 over rest of BoB. 	<ul style="list-style-type: none"> ➤ 90-110 over southeast AS, Lakshadweep Islands, Maldives islands and Comorin area. ➤ 50-60 over rest AS.
Cyclonic Relative vorticity (X10⁻⁶s⁻¹)	<ul style="list-style-type: none"> ➤ 60-80 over southwest BoB adjoining to south Sri Lanka coast. ➤ Positive low level vorticity at 850 hPa is 	<ul style="list-style-type: none"> ➤ 50-70 southeast AS, Lakshadweep, Maldives, Comorin areas, extending upto 500 hPa.

	<p>about $40-50 \times 10^{-6} \text{ s}^{-1}$ over South Andaman Sea and adjoining southeast BoB. Two more positive vorticity zones are seen over central parts of south Bay of Bengal (BoB) and another over southwest BoB off southeast Sri Lanka coast.</p>	
<p>Low-Level convergence (X10-6 s-1)</p>	<p>➤ 05-10 over Southeast BoB and adjoining south Andaman Sea. With 20 to the southwest of system area.</p> <p>➤ 5 over westcentral BoB and adjoining Andhra Pradesh- Tamil Nadu coast.</p>	<p>05-10 over southeast AS, Lakshadweep, Maldives areas.</p>
<p>Upper-Level divergence (X10-6 s-1)</p>	<p>➤ 05-10 over the Southeast BoB and adjoining south Andaman Sea and is extending over entire south BoB and southeast Andaman Sea</p> <p>➤ 5 over westcentral BoB and adjoining Andhra Pradesh- Tamil Nadu coast</p>	<p>$20 \times 10^{-6} \text{ s}^{-1}$ to the southeast of system centre and another zone of $20 \times 10^{-6} \text{ s}^{-1}$ to the west of system area</p>
<p>Vertical Wind Shear (VWS knots) Low: 05-10 knots Moderate: 10-20 knots High: >20 knots</p>	<p>Low to moderate over south BoB and over system area.</p>	<p>➤ Low to moderate over Southeast AS and Westcentral AS. Moderate to high over rest of Arabian Sea.</p>
<p>Wind Shear Tendency (knots)</p>	<p>➤ 10 over eastcentral and southeast eastern BoB.</p> <p>➤ 5 over the Andhra Pradesh coast.</p>	<p>Vertical wind shear (VWS) of horizontal wind is moderate (10-20 kt) over the system area and to the west of system area along the predicted path</p>
<p>Upper tropospheric Ridge</p>	<p>➤ At 13° N.</p>	<p>➤ At 17° N.</p>

Over the BoB & Andaman Sea:

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over westcentral Bay of Bengal off Andhra Pradesh coast, south Bay of

Bengal & Andaman Sea. Scattered low and medium clouds with embedded moderate to intense convection lay over the rest parts of Bay of Bengal.

Over the Arabian Sea:

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over south & adjoining central Arabian Sea, Lakshadweep Islands and Comorin area. Scattered low and medium clouds with moderate to intense convection lay over the rest parts of central Arabian Sea and Maldives area.

Outside India:

Vortex (Fengshen) over Philippines and neighbourhood centered near 14.8°S / 119.8°E. Intensity T2.5/3.0. Maximum sustained winds 34–47 knots. Associated scattered to broken low/medium clouds with embedded intense to very intense convection over Philippines and adjoining South China Sea. Scattered low/medium clouds with embedded moderate to intense convection observed over Sri Lanka, Palk Strait, Gulf of Mannar, Maldives, Tibet, China, Yellow Sea, East China Sea, north Myanmar, Thailand, Gulf of Thailand, Cambodia, Laos, Vietnam, Sumatra, Strait of Malacca, Malaysia, Borneo, South China Sea, Java Islands and Sea, Philippines, Sulu Sea, and over Indian Ocean between latitudes 5.0°N to 20.0°S and longitudes 50.0°E to 110.0°E.

M.J.O. Index:

The guidance from ECMM model indicates that Madden Julian Oscillation (MJO) index is likely to be in phase 3 on 19th October and in phase 4 during 20th to 28th October with amplitude more than 1. Thereafter, it is likely to move across phase 5 with amplitude becoming less than 1. Thus, MJO would support enhancement of convective activity over the Arabian Sea during 19th to 20th and over the Bay of Bengal from 20th onwards.

Equatorial waves guidance:

Guidance from NCICS model indicates enhanced cross equatorial flow on 19th October onwards leading to westerly wind burst over southern parts of Arabian Sea and Bay of Bengal and adjoining equatorial Indian Ocean during 19th to 26th October. The Model indicates prevalence of equatorial Rossby wave (ERW) Kelvin wave (KW), MJO, Low frequency Background wave (LW), enhanced westerly wind Anomaly (>9mps) over the region during 19th to 26th October. The model is also indicating setting in of easterly winds anomaly (5-7 mps) over central and adjoining south Bay of Bengal during 19th to 26th October. It is indicating weak easterly wind anomaly (1-3 mps) over southeast Arabian Sea during 19th-20th October and slightly higher easterly wind anomaly (5-7 mps) during 21st to 23rd October over central Arabian Sea. These features indicate a favourable environment for cyclogenesis (formation of Depression) over Arabian Sea during 20th to 21st and over the Bay of Bengal during 22nd to 24th October.

NWP Guidance for FDP Cyclone:

MODEL GUIDANCE	Bay of Bengal (BoB)	Arabian Sea (AS)
IMD-GFS	LPA over southeast BoB and adjoining south Andaman Sea on 20/18 UTC. Depression over southeast BoB on 21/12 (8.5/91). The model is indicating further intensification and west-northwestwards movement and crossing over Tamil Nadu coast on 226/03 near 12.8/80.0 as a cyclone.	LPA over southeast AS on 19/00 UTC over southeast AS, intensify into depression over southeast AS on 22/12 UTC. Indicating no significant intensification, west-northwestwards movement and crossing Somalia coast on 27/06 UTC.
IMD-GEFS	The model indicates no	LPA over southeast AS on 19/00 UTC over

	significant system over BoB.	southeast AS, intensification into depression over southeast AS on 21/12 UTC. Indicating no significant intensification, west-northwestwards movement towards Somalia coast.
IMD-WRF	The model indicates no significant system over BoB.	LPA over southeast AS on 19/00 UTC and west-northwestwards movement towards southwest AS till 22/00.
BFS	Depression over southeast BoB on 21/00 (7N/89E). Indicating higher intensification and crossing over South Andhra Pradesh-North Tamil Nadu coasts as an intense system around 24/12. It is also indicating the system to move across central India and emerge into northeast Arabian Sea on 27/12.	LPA over southeast AS on 19/00 UTC. Intensification into depression on 22/00 over southeast AS. Thereafter weakening from 23/00 & persistence over the same region
NCMRWF-NCUM(G)	The model indicates no significant system over BoB.	A cyclonic circulation over southeast AS on 19/00, becoming LPA on 20/00 over the same region. Thereafter moving west-northwestwards towards Gulf of Aden with as an LPA.
NCMRWF-NCUM(R)	The model indicates no significant system over BoB.	Extended low on 19/00 & 20/00 over southeast AS.
NEPS	LPA over southwest Bay of Bengal (BoB) on 23/00 UTC and further intensification.	A cyclonic circulation over southeast AS on 19/00, becoming LPA on 20/00 over the same region. Thereafter moving west-northwestwards towards Gulf of Aden with as an LPA.
ECMWF	LPA over southeast & adjoining southwest BoB on 20/00 UTC. Depression over southwest BoB on 22/00. Further it is indicating movement towards South Andhra Pradesh coast and crossing on 24/03 as a depression. Model is also indicating movement across central India and emergence of system into northeast AS on 28/00.	LPA over southeast AS on 19/00 UTC becoming depression over southeast AS on 22/00 UTC. Indicating marginal depression. West-northwestwards movement towards Gulf of Aden till 24/06 UTC with no significant intensification.
NCEP-GFS	LPA over southeast BoB and adjoining south Andaman Sea on 20/18 UTC. Depression over southeast BoB on 22/18 (12.7/86.4). The model is indicating marginal intensification and west-northwestwards movement towards North Coastal Andhra Pradesh-South Odisha coasts till	LPA over southeast AS on 19/00 UTC over southeast AS, intensify into depression over southeast AS on 21/00 UTC. Indicating further intensification and west-northwestwards movement towards Somalia coast till 23/00 UTC.

	24/18 and then north-northeastwards movement with crossing over West Bengal on 27/18.	
EC-AIFS	LPA over southwest BoB on 20/00. Depression over southwest BoB on 22/00. Further it is indicating movement towards South Andhra Pradesh coast and crossing on 24/03 as a depression. Model is also indicating movement across central India and emergence of system into northeast AS on 28/00.	LPA over southeast AS on 19/00 UTC over southeast Arabian Sea, Model is indicating the system to initially persist over the same region followed by north-northeastwards movement and no intensification.

Summary:

(a) Bay of Bengal:

Most of the numerical models (NCEP, ECMWF, ECAI, IMD GFS, GEFS, BFS) are indicating low pressure area over southeast and adjoining south Andaman Sea during 20th-21st October and depression during 22nd – 23rd October. Models are indicating west-northwestwards movement towards Andhra Pradesh-North Tamil Nadu coasts as a depression. Some of the models in particular the GFS group are indicating higher intensification also. IMD MME is indicating northwestwards movement of the system towards South Andhra Pradesh-North Tamil Nadu coast as a depression and crossing around 24/00 UTC. Thereafter, it is indicating northwestwards movement across South Peninsular India and emergence into eastcentral Arabian Sea.

(b) Arabian Sea

Most of the models (IMD-GFS, GEFS, ECMWF, NCUM, CMC) indicate a low-pressure area over southeast Arabian Sea & Lakshadweep area off Kerala-Karnataka coasts on 19th Oct. A few models are showing occasional development into a depression during 21st to 23rd October, particularly over the southwest Arabian Sea. There is consensus among various models wrt west-northwestwards movement of system towards Somali coast-Gulf of Aden. IMD MME is indicating near westwards movement of system till 25th October and then west-southwestwards movement over the southwest AS.

Inference:

- Considering various large-scale environmental features and model guidance, it is inferred that
- (a) The Well-marked low pressure area over southeast Arabian Sea & Lakshadweep area off Kerala-Karnataka coasts is likely to move westwards and intensify into a depression during next 24 hours. Hence, moderate to high probability is assigned to cyclogenesis (formation of depression) during 19th to 21st October.
 - (i) Confidence level in forecast of intensification (formation of Depression): **High**
 - (ii) Confidence level in forecast of location of Depression: **High**
 - (b) Under the influence of upper air cyclonic circulation over south Andaman Sea & adjoining southeast Bay of Bengal, a low pressure area is likely to form over southeast Bay of Bengal around 21st October. It is likely to move west-northwestwards and intensify further into a depression over central parts of south Bay of Bengal and adjoining westcentral Bay of Bengal during subsequent 48 hours. Hence, moderate to high probability is assigned to cyclogenesis

(formation of depression) around 22nd October.

- (i) Confidence level in forecast of formation of Low: High
- (ii) Confidence level in forecast of location area of Low: High
- (iii) Confidence level in forecast of intensification (formation of Depression): High
- (iv) Confidence level in forecast of location of Depression: Moderate

Both the systems are under continuous watch.

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	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
MOD	HIGH	HIGH	-	-	-	-

“- “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 19th to 22nd October.

Warnings in association with system over Arabian Sea:

(i) Rainfall Warning:

Lakshadweep Islands: Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places is very likely on 19th and isolated heavy rainfall on 20th October.

Kerala: Light to moderate rainfall at most places with heavy rainfall at isolated places during 19th-25th October, heavy to very heavy rainfall at isolated places on 19th & 20th and during 23rd to 25th October.

Coastal & South Interior Karnataka: Light to moderate rainfall at most places with heavy rainfall at isolated places is very likely during 19th-25th October, and isolated heavy to very heavy rainfall over South Interior Karnataka on 24th-25th October.

(ii) Wind warning:

Squally weather with wind speed reaching 35-45 gusting to 55 kmph is prevailing over Southeast and adjoining Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts. It is likely to increase becoming squally wind with speed reaching 40-50 kmph gusting to 60 kmph over Southeast & adjoining Eastcentral Arabian Sea from evening of today, the 19th October to 20th October, over central parts of south & adjoining central Arabian sea on 21st October and over southwest & adjoining westcentral Arabian Sea on 22nd & 23rd October.

(iii) Sea condition:

Sea condition is moderate to rough over Southeast and adjoining Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts. It would become rough to very rough over Southeast & adjoining Eastcentral Arabian Sea from 19th to 20th October, over central parts of south and adjoining central Arabian Sea from on 21st October and over southwest and adjoining westcentral Arabian Sea on 22nd & 23rd October 2025.

(iv) 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 20th October and over southwest and adjoining west central Arabian Sea during 21th to 23rd October 2025.

(v) 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:

(i) Rainfall Warning:

Andaman & Nicobar Islands: Light to moderate rainfall at most places with heavy rainfall at isolated places is very likely during 19th to 22nd October.

Tamil Nadu & Puducherry: Light to moderate rainfall at most places with heavy rainfall at isolated places during 19th to 25th October and very heavy rainfall at isolated places during 23rd to 25th October.

Andhra Pradesh: Light to moderate rainfall at most places with heavy rainfall at isolated places during 19th to 25th October and very heavy rainfall at isolated places on 19th & during 23rd to 25th October.

(ii) Wind warning:

- Squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over Southeast Bay of Bengal and adjoining South Andaman Sea on 21st and 22nd October.
- Squally wind with speed reaching 40-50 kmph gusting to 60 kmph likely to prevail over central parts of south Bay of Bengal and adjoining areas of central Bay of Bengal on 23rd, and becoming 45-55 kmph gusting to 65 kmph over Southwest and adjoining Westcentral Bay of Bengal on 24th & 25th October.
- Squally wind with speed reaching 35-45 kmph gusting to 55 kmph likely to prevail along & off Tamil Nadu & south Andhra Pradesh coasts on 22nd & becoming 40-50 kmph gusting to 60 kmph on 23rd October. It is likely to increase becoming 45-55 kmph gusting to 65 kmph on 24th & 25th October.

(iii) Sea conditions:

- Sea condition is likely to be moderate to rough over Southeast Bay of Bengal and adjoining South Andaman Sea on 21st and 22nd October.
- Sea condition is likely to be become rough to very rough over central parts of south Bay of Bengal and adjoining areas of central Bay of Bengal on 23rd, and over Southwest and adjoining Westcentral Bay of Bengal on 24th & 25th October.
- Sea condition is likely to be moderate to rough along & off Tamil Nadu & south Andhra Pradesh coasts on 22nd and rough to very rough on 23rd to 25th October.

(iv) Fishermen Warning:

Fishermen are advised not to venture into South and adjoining central Bay of Bengal from 21st afternoon onwards. Those fishermen out at sea should return to coast by 21st October.

(v) Impact Expected and Action Suggested due to heavy rain and strong winds (Tamil Nadu and Andhra Pradesh)

Impact expected:

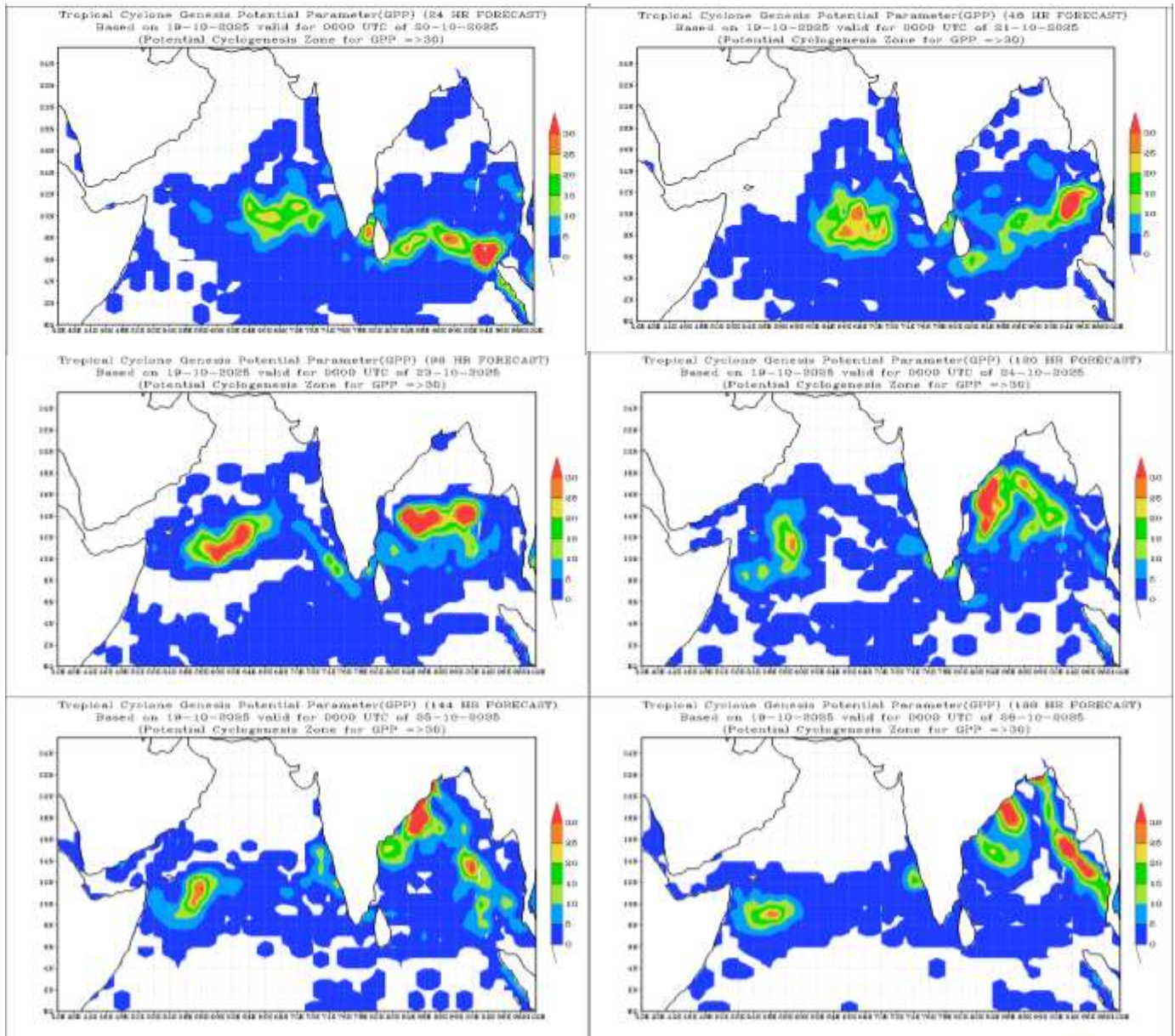
- Breaking of tree branches. Strong wind and heavy rain may damage plantation, horticulture and standing crops.
- Minor damage to kutcha houses/walls, huts and roads due to strong winds and heavy rain.
- Road and rail traffic may be affected due to heavy rain.
- There could be localised flash floods,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

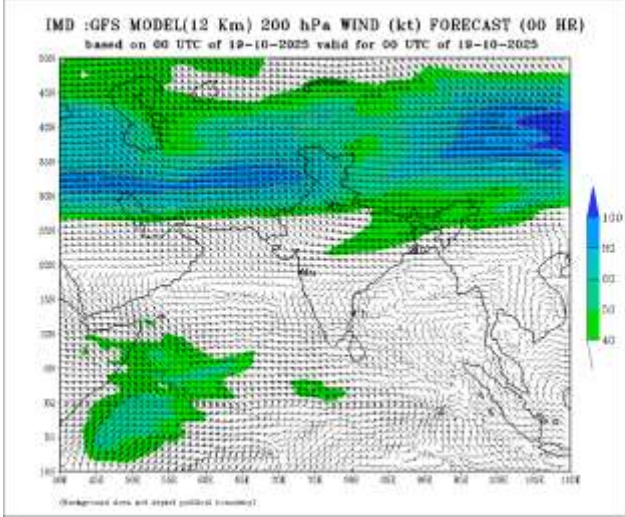
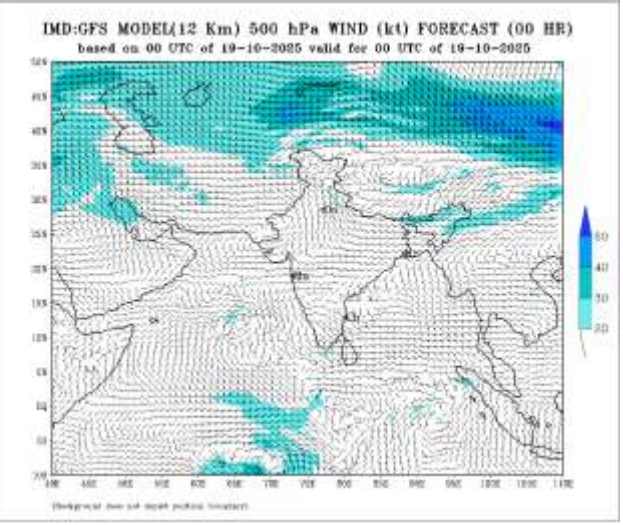
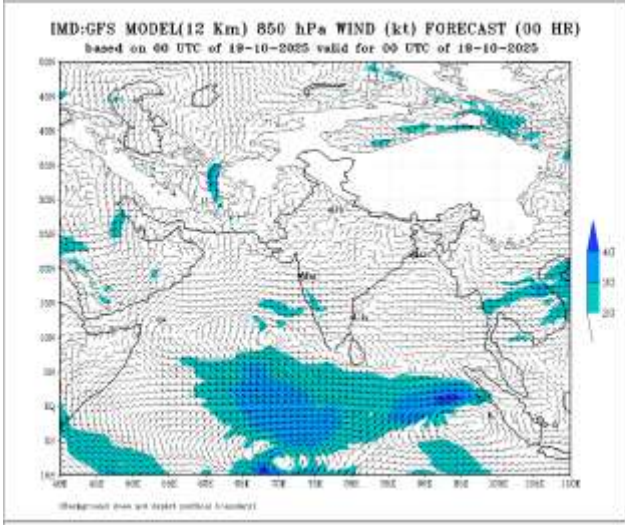
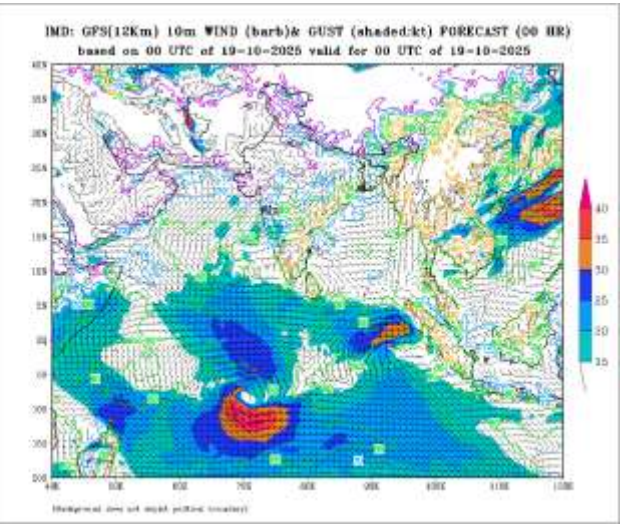
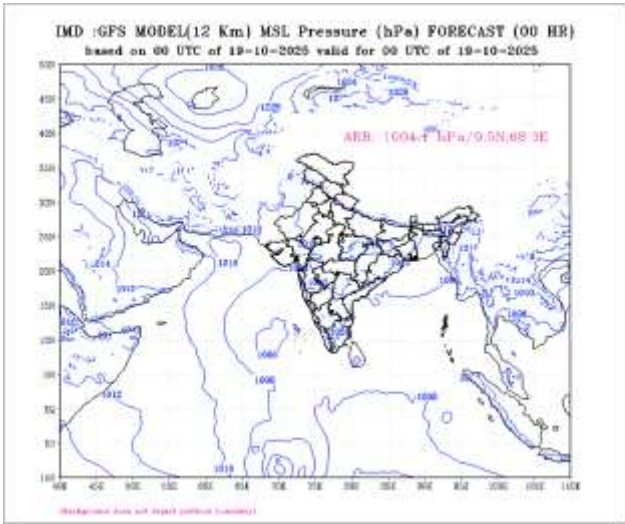
Action suggested:

- 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.

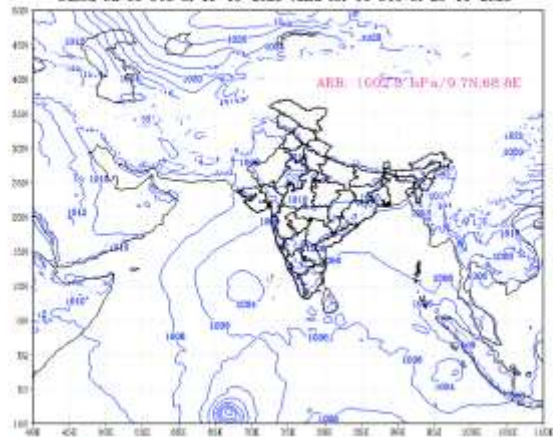
ANNEXURE

Note: GPP of 00 and 72 hrs not available

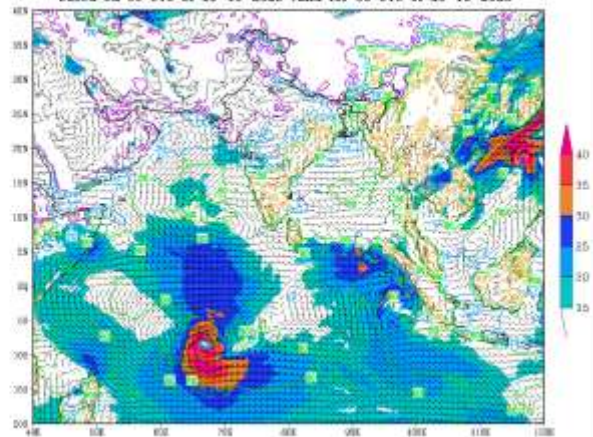




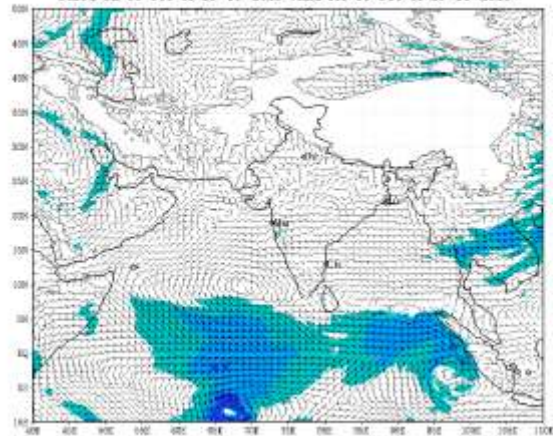
IMD :GFS MODEL(12 Km) MSL Pressure (hPa) FORECAST (24 HR)
based on 00 UTC of 19-10-2025 valid for 00 UTC of 20-10-2025



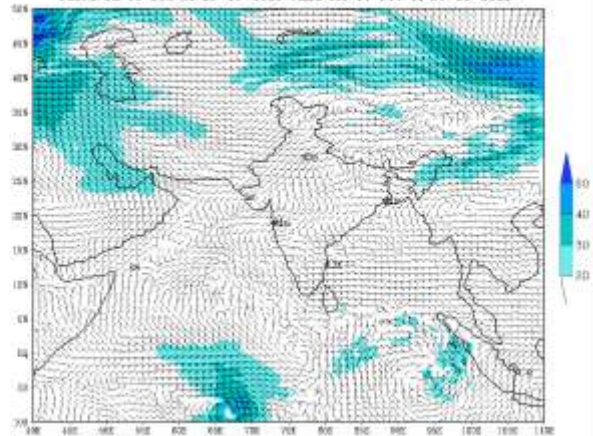
IMD: GFS(12Km) 10m WIND (barb)& GUST (shaded:kt) FORECAST (24 HR)
based on 00 UTC of 19-10-2025 valid for 00 UTC of 20-10-2025



IMD:GFS MODEL(12 Km) 850 hPa WIND (kt) FORECAST (24 HR)
based on 00 UTC of 19-10-2025 valid for 00 UTC of 20-10-2025



IMD:GFS MODEL(12 Km) 500 hPa WIND (kt) FORECAST (24 HR)
based on 00 UTC of 19-10-2025 valid for 00 UTC of 20-10-2025



IMD :GFS MODEL(12 Km) 200 hPa WIND (kt) FORECAST (24 HR)
based on 00 UTC of 19-10-2025 valid for 00 UTC of 20-10-2025

