**REGIONAL SPECIALISED METEOROLOGICAL CENTRE -TROPICAL CYCLONES, NEW DELHI**
**TROPICAL WEATHER OUTLOOK**

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**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 13.08.2025**

**TROPICAL WEATHER OUTLOOK FOR THE NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR THE NEXT 168 HOURS ISSUED AT 0600 UTC OF 13.08.2025 BASED ON 0300 UTC OF 13.08.2025.**

**BAY OF BENGAL:**

Under the influence of the upper air cyclonic circulation over west central Bay of Bengal & neighbourhood, a Low Pressure area formed over Westcentral & adjoining northwest Bay of Bengal off North Andhra Pradesh and South Odisha coasts at 0000 UTC of today, the 13th August 2025. It persisted over the same region at 0300 UTC of today, the 13th August 2025. The associated upper air cyclonic circulation extended upto 7.6 km above mean sea level tilting southwards with height. It is likely to move west-northwestwards and become well marked low during next 24 hours. It is likely to move across North Coastal Andhra Pradesh and south Odisha during next 48 hours.

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over central & south Bay of Bengal and Andaman Sea. Scattered low and medium clouds with embedded isolate moderate to intense convection lay over North Bay of Bengal.

***PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:**

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

*NOTE: EVERY 24HR FORECAST IS VALID UPTO 0300 UTC (0830 IST) OF NEXT DAY

**ARABIAN SEA:**

Scattered low and medium clouds with embedded moderate to intense convection lay over eastcentral & southeast Arabian Sea, Lakshadweep Islands area and Comorin area. Scattered low and medium clouds with embedded weak to moderate convection lay over rest of the Arabian Sea, Gulf of Kutch & Gulf of Cambay.

***PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:**

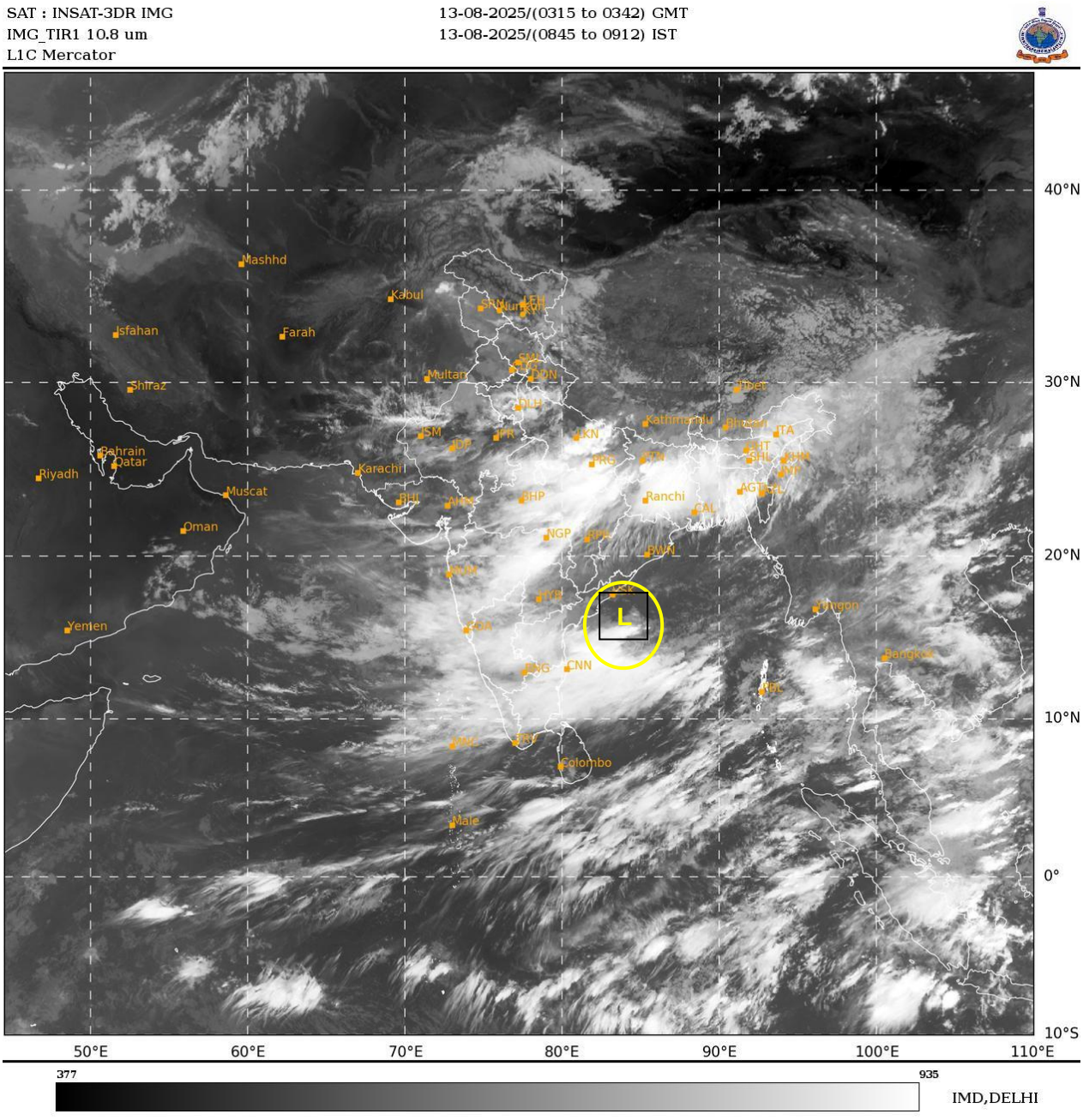
| 24 HOURS | 24-48 HOURS | 48-72 HOURS | 72-96 HOURS | 96-120 HOURS | 120-144 HOURS | 144-168 HOURS |
|---|---|---|---|---|---|---|
| NIL | NIL | NIL | NIL | NIL | NIL | NIL |

*NOTE: EVERY 24HR FORECAST IS VALID UPTO 0300 UTC (0830 IST) OF NEXT DAY

**REMARKS:** Madden Julian Oscillation (MJO) is in phase 3 & 4 with amplitude more than 1 during next 5 days. As per guidance from NCICS model, there is likelihood of prevalence of westerly wind anomaly over south & central Bay of Bengal (BoB), easterly wind anomaly over north BoB and Equatorial Rossby wave (ERW) over central BoB during 13th-18th August. As per guidance from CIMSS, the low level winds (800-950 hPa) indicate a well-defined circulation over westcentral Bay of Bengal (BoB) and adjoining southwest BoB. The low level vorticity is positive and is about 80-100 X $10^{-6}$ $s^{-1}$ over westcentral BoB and is extending upto 200 hPa level with no significant tilting. The low level

convergence is 20X $10^{-6}$ $s^{-1}$ over westcentral & adjoining southwest BoB and upper level divergence is also positive (around 20X $10^{-6}$ $s^{-1}$) over the same region. However, Vertical wind shear (VWS) of horizontal wind is high 40-50 kt over entire BoB. Most of the environmental features except VWS indicate a favourable environment for further intensification of the system.

Guidance from various models including NCEP-GFS, ECMWF, ECAI and NCUM-R is showing low pressure area over westcentral BoB and adjoining AP-Odisha Coast on 13th August with nearly north-northeastwards movement along the coast. However, ECMWF is also indicating marginal intensification of the system into a well-marked low pressure area/ depression around 14th/15th August.




L : **Low pressure area**

**Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature(CTT)>-25°C,(b)Moderate:CTT:-25°Cto-40°C,(c)Intense:CTT: -41°Cto -70°Cand(d)Very Intense::Less than -70°C**
**PROBABILITYOFCYCLOGENESIS(FORMATIONOFDEPRESSION):NIL:0%,LOW:1-33%,,MODERATE:34-66%ANDHIGH:67-100%**
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