



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

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 27.08.2025**

**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 27.08.2025 BASED ON 0300 UTC OF 27.08.2025.**

### **BAY OF BENGAL:**

Yesterday's Low-Pressure Area over northwest Bay of Bengal off Odisha coasts moved slowly westnorthwestwards and became Well Marked Low Pressure area over the same region at 0000 UTC of today, the 27<sup>th</sup> August 2025 and persisted at 0300 UTC of today, the 27<sup>th</sup> August 2025. The associated cyclonic circulation extended upto 7.6 km above mean sea level tilting southwestwards with height. It is likely to move slowly west-northwestwards across Odisha in next 24 hrs.

As per INSAT 3D imagery at 0300 UTC, scattered to broken low and medium clouds with embedded intense to very intense convection over coastal Andhra Pradesh, westcentral Bay of Bengal (minimum cloud top temperature -70°C to -90°C) and moderate to intense convection lay over Orissa, northwest Bay of Bengal (minimum cloud top temperature -50°C to -70°C).

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over westcentral Bay of Bengal & Andaman Sea. Scattered low and medium clouds with embedded moderate to intense convection lay over rest of 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
LOW	NIL	NIL	NIL	NIL	NIL	NIL

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

### **ARABIAN SEA:**

Scattered to broken low and medium clouds with embedded moderate to intense convection lay over eastcentral Arabian Sea off Goa-Karnataka coasts and also over southeast Arabian Sea, Lakshadweep Islands area. Scattered low and medium clouds with embedded weak to moderate convection lay over southwest Arabian Sea & Comorin area.

### **\*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 Oscillations (MJO) is currently in phase 5 with amplitude close to 1. It is likely to continue in same phase during next 2 days thereafter it will move across phase 6 with gradually decreasing amplitude. Thus, MJO will support enhancement of convective activity over North Bay of Bengal (BoB) and Indo-Gangetic plains during next 2-3 days.

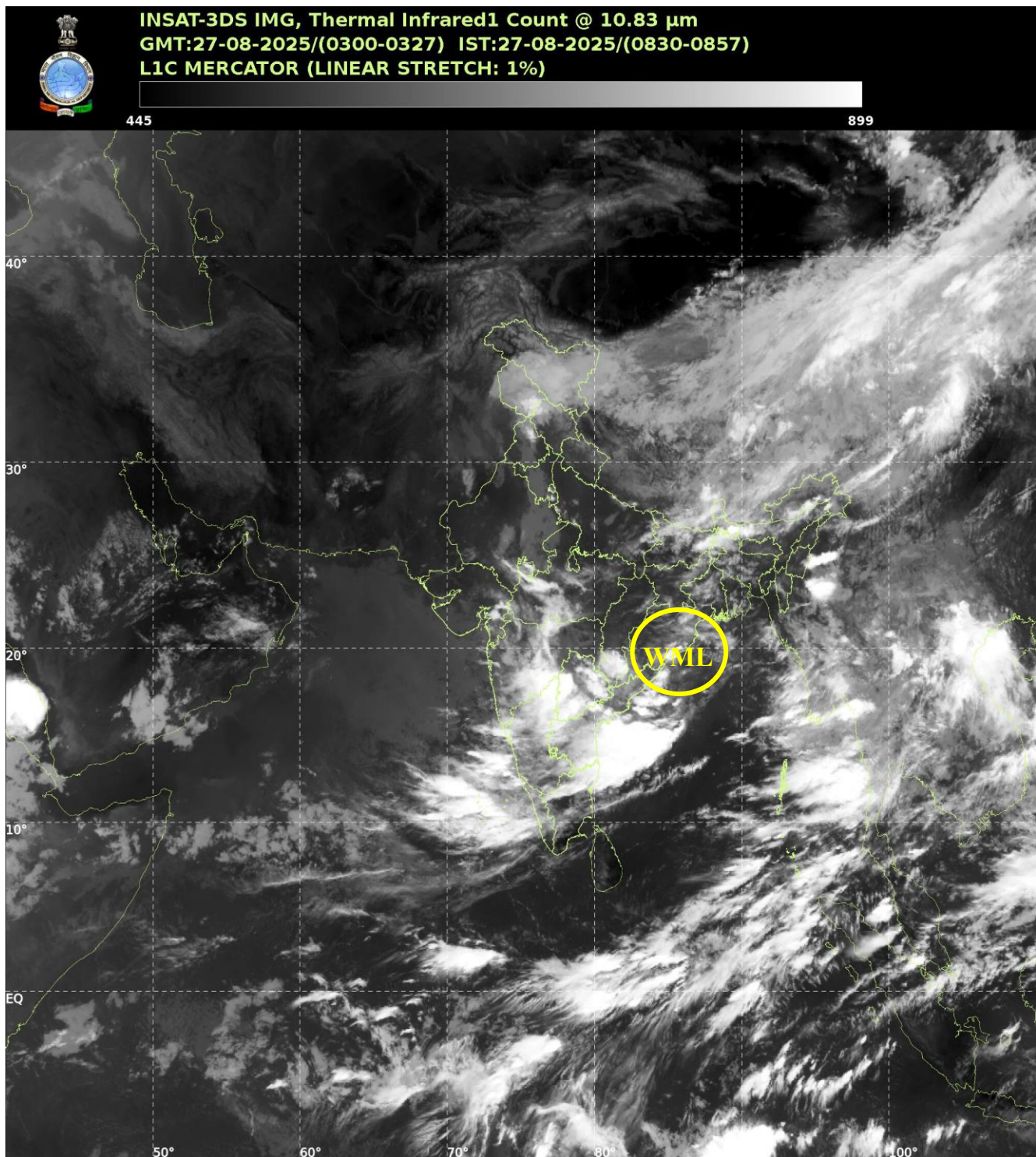
The guidance from NCICS model indicates prevalence of westerly wind anomaly (3-5 mps) over BoB and easterly wind anomaly (1-2 mps) over eastern parts of India during 27<sup>th</sup> -30<sup>th</sup> August. The Model

is also indicating a westward moving Equatorial Rossby waves over BoB and easterward moving Kelvin wave over South BoB during the same period. Thus, Equatorial waves and MJO are likely to support cyclogenesis (formation of depression) over north BoB during next 2-3 days.

Sea surface temperature (SST) is 29 °C over Northwest BoB off Odisha-West Bengal-Bangladesh coasts. The low level vorticity is  $100 \times 10^{-6} \text{ sec}^{-1}$  over Westcentral BoB to the southwest of system centre. Low Level Convergence is  $10 \times 10^{-6} \text{ sec}^{-1}$  over the same region. Upper Level Divergence is  $5 \times 10^{-6} \text{ sec}^{-1}$  over northwest BoB to the northeast of system centre and another zone of positive upper level divergence ( $20 \times 10^{-6} \text{ sec}^{-1}$ ) is seen over westcentral BoB to the southwest of system centre. Mid level (500-850 hPa) vertical wind shear of horizontal wind is low (5-10 kt) over northwest BoB and to the west-northwestwards area. ASCAT pass 0259 UTC is indicating circulation over northwest BoB off Odisha coast with associated maximum surface wind of the order of 15-20 kt. Infrared-water vapour imagery (IR-WV) is indicating presence of moisture upto mid tropospheric level over the system area. It is also indicating very high humidity over westcentral BoB to the southwest of system centre. All these features indicate a favourable environment for further intensification of system into depression. However, the system is lying very close to the coast and land interaction may inhibit intensification of the system.

Most of the models indicating low pressure area over northwest BoB with west-northwestwards movement and no significant intensification. However, NEPS, NCUM(R) and IMD WRF is indicating slight intensification of the system during next 24 hours.

Considering all the above Low probability is assigned to cyclogenesis (formation of depression) during next 24 hours.



WML: Well-Marked Low-Pressure Area