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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 27.05.2025

TROPICAL WEATHER OUTLOOK FOR THE NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR THE NEXT 168 HOURS ISSUED AT 0700 UTC OF 27.05.2025 BASED ON 0300 UTC OF 27.05.2025.

LAND:

Yesterday's low-pressure area over Marathwada & neighbourhood became less marked at 0000 UTC of today, the 27th May 2025. The associated cyclonic circulation lay over south Chhattisgarh & adjoining east Vidarbha and extend upto 1.5 km above mean sea level.

BAY OF BENGAL:

A Low Pressure area formed over Northwest Bay of Bengal off Odisha coast at 0300 UTC of today, the 27th May 2025. The associated cyclonic circulation extend upto 7.6 km above mean sea level tilting southwards with height. It is likely to move slowly northwards and become more marked during next 48 hours.

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

***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	LOW	LOW	-	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 intense to very intense convection lay over eastcentral Arabian Sea, northeast Arabian Sea & Gulf of Cambay. Scattered to broken low and medium clouds with embedded moderate to intense convection lay over westcentral & southeast Arabian Sea, Lakshadweep islands area, Maldives & 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

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% ThisisaguidanceBulletinforWMO/ESCAPPanelMembercountries.VisitrespectiveNationalwebsitesforCountryspecificBulletins

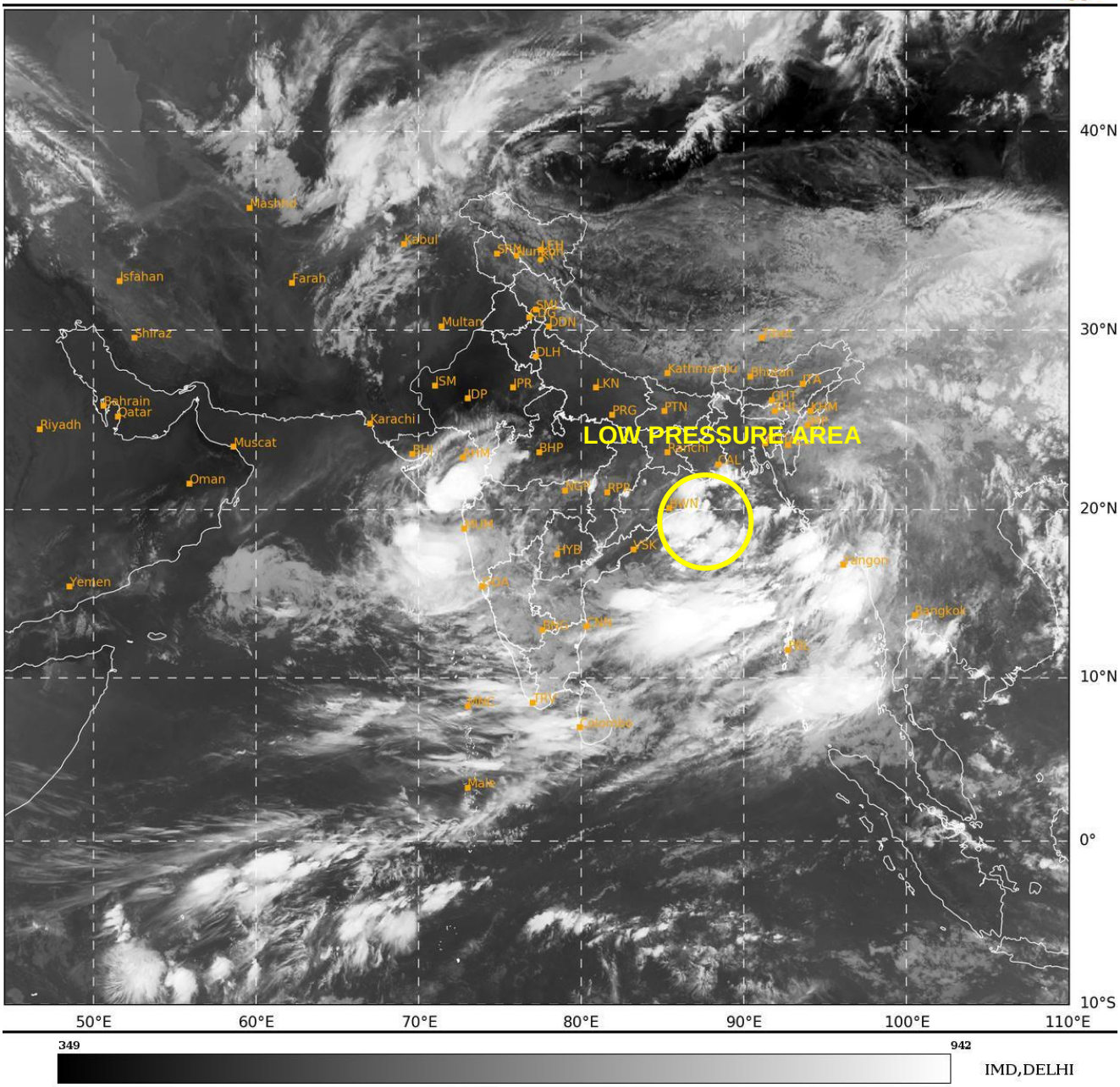
Remarks:

The sea surface surface temperature is 30-32^{0}C over entire the Bay of Bengal (BoB). The Currently, Madden Julian Oscillation (MJO) is in phase 5 with amplitude more than 1 during next 4 days and with amplitude less than 1 in the same phase thereafter. The guidance from NCICS model indicate strong westerly wind anomaly (5-7 mps) over the south Bay of Bengal and strong easterly wind anomaly (5-7 mps) over north BoB till 31st May. The Equatorial Rossby wave (ERW) is likely to move westwards across south BoB, peninsular India and central Arabian Sea (AS) during next 4-5 days. The Kelvin waves are also likely to move eastwards across northern plains of India and north BoB during the same period. Along with the large-scale environmental features, the moderate vertical wind shear over north and adjoining central BoB is supportive for the sustenance of low-pressure system over the region.

The analyses of models like NCEP GFS, IMD GFS and ECMWF are indicating the prevailing low-pressure area (LPA) over northwest Bay of Bengal off Odisha coast. The forecasts of the models are also in consensus to indicate that the LPA is likely to move slowly northwards towards West Bengal coast and become more marked over the same region during next 48 hours. A few models suggest that there is a possibility of the system to intensify into a depression around 29th May.

SAT : INSAT-3DR IMG
IMG_TIR1 10.8 um
L1C Mercator

27-05-2025/(0315 to 0342) GMT
27-05-2025/(0845 to 0912) IST



IMD,DELHI

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%
ThisisaguidanceBulletinforWMO/ESCAPPanelMembercountries.VisitrespectiveNationalwebsitesforCountryspecificBulletins