



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 16.10.2025

TROPICAL WEATHER OUTLOOK FOR THE NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR THE NEXT 168 HOURS ISSUED AT 0800 UTC OF 16.10.2025 BASED ON 0300 UTC OF 16.10.2025.

BAY OF BENGAL:

Yesterday's upper air cyclonic circulation over coastal Tamil Nadu & adjoining Comorin Area lay over Comorin area and neighbourhood extending upto mid tropospheric levels at 0300 UTC of today, the 16th October, 2025.

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

A **low pressure area** is likely to form over southeast Bay of Bengal around 24th October, it is likely to move west-northwestwards and intensify further thereafter.

***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**

ARABIAN SEA:

Yesterday's upper air cyclonic circulation over southeast Arabian Sea & adjoining Lakshadweep area persisted over the same region at 0300 UTC of today, the 16th October, 2025 and extended upto 5.8 km above mean sea level tilting southward with height. Under its influence, a low pressure area is likely to form over southeast Arabian Sea & Lakshadweep area off Kerala-Karnataka coasts around 18th October, 2025. Thereafter, it is likely to move west-northwestwards and intensify into a **depression** during subsequent 48 hours.

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over southeast Arabian Sea, Lakshadweep Islands, Maldives & Comorin area adjoining Equatorial Indian Ocean. Scattered low and medium clouds with embedded weak to moderate convection lay over central & southwest Arabian Sea.

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

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

REMARKS:

Environmental Features: MJO index is likely to be in phases 2 & 3 during 16th to 20th October and in phase 4 during 20th to 28th October with amplitude remaining close to 1. Thus MJO would support enhancement of convective activity and cyclogenesis over Arabian Sea during 16th to 20th and over the Bay of Bengal during 18th to 26th.

Guidance from NCICS model indicates enhanced cross equatorial flow from 17th October onwards leading to westerly wind burst over southern parts of Arabian Sea and Bay of Bengal and adjoining equatorial Indian Ocean during 20th to 25th 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 17th to 25th October. The mode is also indicating setting in of easterly wind over the Bay of Bengal and Arabian Sea from 17th onwards in enhanced wind anomaly (5-7 mps) over central and adjoining and south Bay of Bengal during 20th to 25th October and weak easterly wind anomaly (1-3 mps) over southeast Arabian Sea during 16th-19th October. These features indicate a favourable environment for Cyclogenesis (formation of Depression) over Arabian Sea during 19th to 22nd and over the Bay of Bengal during 20th to 26th October.

Model Guidance:

Arabian Sea: Most of the models are showing development of low-pressure area over the southeast Arabian Sea on 18th October and depression around 20th October. Hence, moderate to high probability is assigned to cyclogenesis over Arabian Sea during 20th-22nd October.

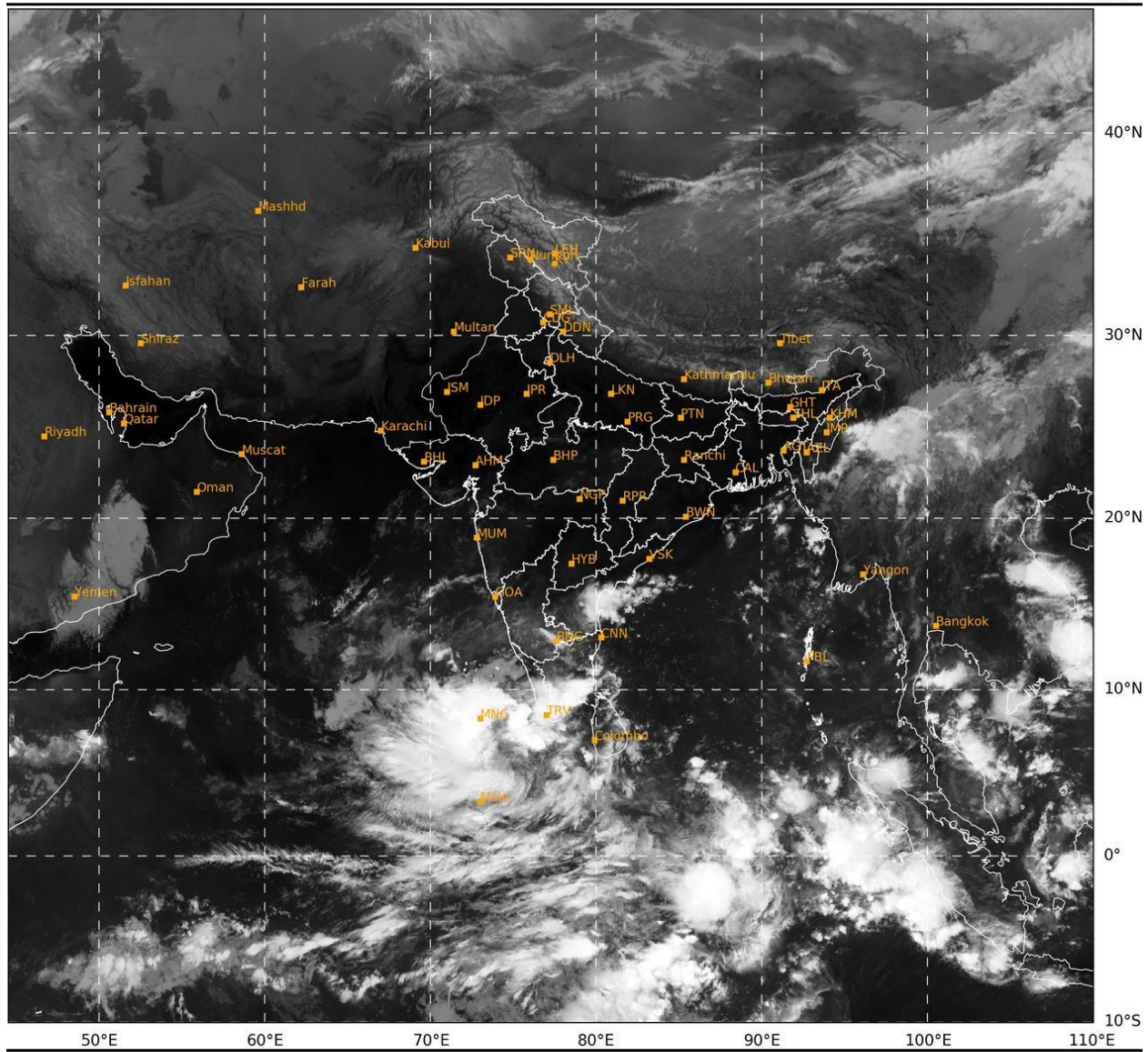
Bay of Bengal: Most of the numerical models are indicating development of a low pressure area over southeast Bay of Bengal and adjoining Andaman Sea around 24th October with further intensification and west-northwestwards movement.

Both the systems are being monitored continuously.

(Monica Sharma)
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SAT : INSAT-3DR IMG
IMG_TIR1 10.8 um
LIC Mercator

16-10-2025/(0315 to 0342) GMT
16-10-2025/(0845 to 0912) IST



465

949

IMD,DELHI