



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

**DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 17.11.2022**

**TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0600 UTC OF 17.11.2022 BASED ON 0300 UTC OF 17.11.2022.**

**BAY OF BENGAL:**

UNDER THE INFLUENCE OF A CYCLONIC CIRCULATION OVER SOUTH ANDAMAN SEA & NEIGHBOURHOOD IN MIDDLE TROPOSPHERIC LEVELS, A LOW PRESSURE AREA FORMED OVER SOUTHEAST BAY OF BENGAL & ADJOINING NORTH ANDAMAN SEA AT 0000 UTC OF TODAY, THE 17<sup>TH</sup> NOVEMBER, 2022. IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS AND GRADUALLY CONCENTRATE INTO A DEPRESSION OVER CENTRAL PARTS OF SOUTH BAY OF BENGAL AROUND 19<sup>TH</sup> NOVEMBER, 2022. THEREAFTER, IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS TOWARDS TAMILNADU-PUDUCHERRY AND SOUTH ANDHRA PRADESH COASTS DURING SUBSEQUENT 3 DAYS.

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER CENTRAL & SOUTHWEST BAY OF BENGAL AND ANDAMAN SEA. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER SOUTHEAST BAY OF BENGAL.

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 120 HRS:**

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

**ARABIAN SEA:**

SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER CENTRAL & SOUTH ARABIAN SEA AND COMORIN AREA .

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 120 HRS:**

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS
NIL	NIL	NIL	NIL	NIL

**Remarks:**

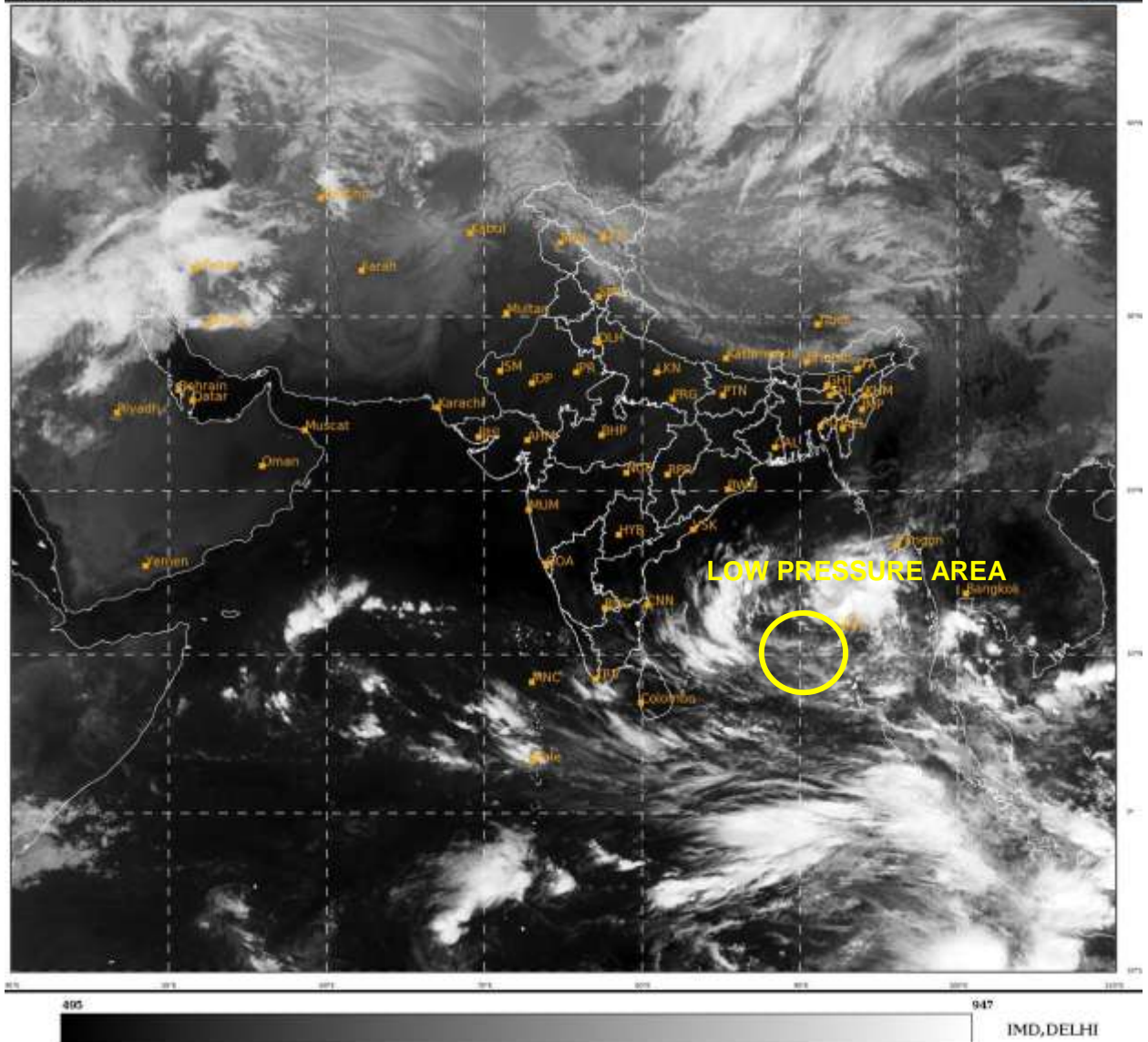
THE MADDEN JULIAN OSCILLATION (MJO) INDEX CURRENTLY LIES IN PHASE 5 WITH AMPLITUDE MORE THAN 1. IT WILL CONTINUE IN SAME PHASE FOR NEXT 3 DAYS AND THEN MOVE TO PHASE 6. MJO INDEX IS THUS CONDUCIVE FOR ENHANCEMENT OF CONVECTIVE ACTIVITY OVER BAY OF BENGAL. SEA SURFACE TEMPERATURE (SST) IS AROUND 28-29°C OVER MAJOR PARTS OF BOB AND 29-30°C OVER A SMALL POCKET OF SOUTHWEST BOB AND OFF TAMILNADU AND SRI LANKA COAST. THE OCEAN HEAT CONTENT (OHC) IS >110 KJ/CM<sup>2</sup> OVER SOUTH ANDAMAN SEA AND 80-100 KJ/CM<sup>2</sup> OVER CENTRAL ADJOINING SOUTH

BOB AND LESS THAN 40 KJ/CM<sup>2</sup> OVER WESTCENTRAL AND SOUTHWEST BOB ALONG EAST COAST OF INDIA.

LOW LEVEL VORTICITY IS AROUND 50-60 X10<sup>-6</sup> S<sup>-1</sup> OVER SOUTH ANDAMAN SEA AND ADJOINING SOUTHEAST BOB. LOW LEVEL CONVERGENCE IS AROUND 10-15 X10<sup>-5</sup> S<sup>-1</sup> OVER SOUTH ANDAMAN SEA AND ADJOINING SOUTHEAST BOB AND IS EAST-WEST ORIENTED. UPPER LEVEL DIVERGENCE HAS INCREASED AND IS AROUND 30 X10<sup>-5</sup> S<sup>-1</sup> OVER SOUTH ANDAMAN SEA. WIND SHEAR IS MODERATE (10-20 KNOTS) OVER CENTRAL & ADJOINING SOUTH BOB AND OVER ANDAMAN SEA, ALONG THE EXPECTED TRACK. THERE EXISTS A UPPER TROPOSPHERIC RIDGE ALONG 13.0°N OVER THE BOB.

MOST OF THE MODELS ARE INDICATING DEVELOPMENT OF DEPRESSION OVER CENTRAL PARTS OF SOUTH BOB AROUND 19<sup>TH</sup> NOVEMBER. MODELS ARE ALSO INDICATING THAT THE SYSTEM WOULD MOVE WEST-NORTHWESTWARDS TOWARDS NORTH TAMIL NADU-SOUTH ANDHRA PRADESH COASTS DURING 19<sup>TH</sup> TO 22<sup>ND</sup>. MOST OF THE MODELS ARE INDICATING THAT THE SYSTEM WOULD WEAKEN NEAR THE COAST. HOWEVER, NCM GROUP IS INDICATING THAT THE SYSTEM WOULD CROSS NORTH TAMILNADU – SOUTH ANDHRA PRADESH COASTS AS A DEPRESSION.

IN VIEW OF ALL THE ABOVE, IT IS INFERRED THAT THE LOW PRESSURE AREA OVER SOUTHEAST BAY OF BENGAL & ADJOINING NORTH ANDAMAN SEA IS LIKELY TO MOVE WEST-NORTHWESTWARDS AND CONCENTRATE INTO A DEPRESSION OVER CENTRAL PARTS OF SOUTH BAY OF BENGAL AROUND 19<sup>TH</sup> NOVEMBER, 2022. THEREAFTER, IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS TOWARDS TAMILNADU-PUDUCHERRY AND SOUTH ANDHRA PRADESH COASTS DURING SUBSEQUENT 3 DAYS.



LPA: LOW PRESSURE AREA