



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

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 17.06.2023

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 2040 UTC OF 17.06.2023 BASED ON 1800 UTC OF 17.06.2023.

SUB: DEPRESSION (REMNANT OF CYCLONIC STORM 'BIPARJOY') OVER CENTRAL PARTS OF SOUTH RAJASTHAN & NEIGHBOURHOOD

THE DEPRESSION (REMNANT OF CYCLONIC STORM 'BIPARJOY') OVER SOUTHWEST RAJASTHAN AND ADJOINING GUJARAT MOVED EAST-NORTHEASTWARDS WITH A SPEED OF 7 KMPH DURING PAST 6-HOURS, AND LAY CENTERED AT 1800 UTC OF 17TH JUNE, 2023 OVER CENTRAL PARTS OF SOUTH RAJASTHAN & NEIGHBOURHOOD NEAR LATITUDE 25.8°N AND LONGITUDE 72.8°E, ABOUT 60 KM SOUTH-SOUTHWEST OF JODHPUR (42339).

IT IS VERY LIKELY TO CONTINUE TO MOVE EAST-NORTHEASTWARDS AND MAINTAIN THE INTENSITY OF DEPRESSION TILL AROUND 0300 UTC OF 18TH JUNE.

AS PER INSAT 3D IMAGERY, ASSOCIATED SCATTERED TO BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER SOUTH RAJASTHAN AND ADJOINING AREAS OF SOUTHEAST PAKISTAN AND NORTH GUJARAT AREA. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93°C

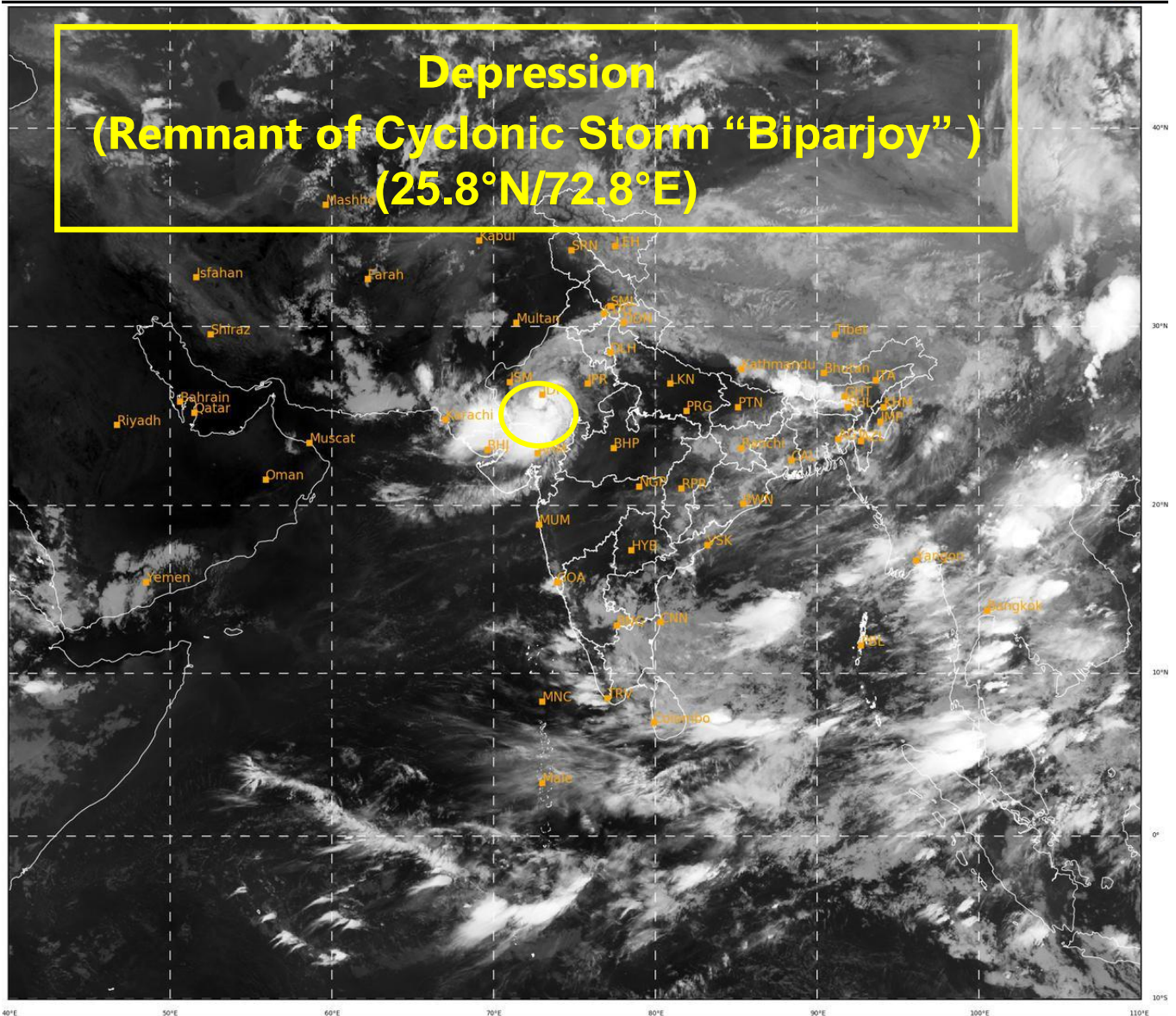
ASSOCIATED MAXIMUM SUSTAINED WIND SPEED (MSW) IS 25 KNOTS GUSTING TO 35 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 994 HPA. AT 1800 UTC, JHODPUR (42339) REPORTED MSLP OF 993.6 HPA, P24 OF -5.5 HPA AND MSW OF 140/05KT.

REMARKS:

THE LOW LEVEL VORTICITY IS AROUND $200-250 \times 10^{-6} \text{S}^{-1}$ & IS LOCATED AROUND THE SYSTEM CENTRE. LOW LEVEL CONVERGENCE IS ABOUT $5-10 \times 10^{-5} \text{S}^{-1}$ TO THE SOUTHWEST OF THE SYSTEM CENTRE AND UPPER LEVEL DIVERGENCE IS ABOUT $20 \times 10^{-5} \text{S}^{-1}$ TO THE AROUND THE SYSTEM CENTRE AND SOUTHWEST OF THE SYSTEM. VERTICAL WIND SHEAR IS WEAK (10-20 KNOTS) OVER THE SYSTEM AREA. THE SYSTEM IS STILL IN A WEAK WIND SHEAR, THUS IT IS WEAKENING GRADUALLY.

BASED ON ENVIRONMENTAL CONDITIONS AND NWP MULTI-MODEL FORECASTS THE SYSTEM IS VERY LIKELY TO MOVE NEARLY EAST-NORTHEASTWARDS AND MAINTAIN THE INTENSITY OF DEPRESSION TILL AROUND 0300 UTC OF 18TH JUNE.

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OBSERVED AND FORECAST TRACK OF DEPRESSION (REMANANT OF CYCLONIC STORM BIPARJOY) OVER CENTRAL PARTS OF SOUTH RAJASTHAN AND NEIGHBOURHOOD BASED ON 1800 UTC (2330 IST) OF 17TH JUNE 2023.



DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
 SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

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°C to -40°C, (c) Intense: CTT: - 41°C to -70°C and (d) Very Intense: : Less than -70°C
 PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION):NIL: 0%, LOW: 1-33%, , MODERATE: 34-66% AND HIGH: 67-100%
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