



## REGIONALSPECIALISED METEOROLOGICALCENTRE-TROPICALCYCLONES,NEW DELHI TROPICAL CYCLONE ADVISORY

### **DEMS-RSMCSPECIAL TROPICAL CYCLONES NEW DELHI DATED 17.06.2023**

FROM: RSMC -TROPICAL CYCLONES, NEW DELHI

TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, KARACHI (PAKISTAN)
METEOROLOGICAL OFFICE, MALE (MALDIVES)
OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)
YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)
NATIONAL CENTRE FOR METEOROLOGY, UAE (THROUGH RTH JEDDAH)
PRESIDENCY OF METEOROLOGY AND ENVIRONMENT, SAUDI ARABIA (THROUGH RTH JEDDAH)
IRAN METEOROLOGICAL ORGANISATION, (THROUGH RTH JEDDAH)
QATAR METEOROLOGICAL DEPARTMENT (THROUGH RTH JEDDAH)

TROPICAL CYCLONE ADVISORY NO. 86 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 0900 UTC OF 17.06.2023 BASED ON 0600 UTC OF 17.06.2023

# SUB: DEEP DEPRESSION (REMNANT OF CYCLONIC STORM 'BIPARJOY') OVER SOUTHWEST RAJASTHAN AND ADJOINING GUJARAT

THE DEEP DEPRESSION (REMNANT OF CYCLONIC STORM 'BIPARJOY') OVER SOUTHWEST RAJASTHAN ADJOINING GUJARAT AND SOUTHEAST PAKISTAN MOVED NORTHEASTWARDS WITH A SPEED OF 17 KMPH DURING PAST 6-HOURS AND LAY CENTERED AT 0600 UTC OF TODAY, THE 17<sup>TH</sup> JUNE, 2023 OVER SOUTHWEST RAJASTHAN AND ADJOINING GUJARAT NEAR LATITUDE 25.3°N AND LONGITUDE 71.9°E, ABOUT 70 KM SOUTHEAST OF BARMER (42435) AND 160 KM SOUTHWEST OF JODHPUR (42339).

IT IS VERY LIKELY TO MOVE EAST-NORTHEASTWARDS AND WEAKEN INTO A DEPRESSION AROUND 1200 UTC. THEREAFTER, IT IS VERY LIKELY TO CONTINUE TO MOVE EAST-NORTHEASTWARDS AND MAINTAIN THE INTENSITY OF DEPRESSION TILL AROUND 0300 UTC OF 18<sup>TH</sup> JUNE.

## FORECAST TRACK AND INTENSITY ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. <sup>o</sup> N/ LONG. <sup>o</sup> E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
17.06.23/0600	25.3/71.9	50-60 Gusting To 70	Deep Depression
17.06.23/1200	25.6/72.4	45-55 Gusting To 65	Depression
17.06.23/1800	25.9/73.0	40-50 Gusting To 60	Depression
18.06.23/0000	26.2/73.8	35-45 Gusting To 55	Depression

AS PER INSAT 3D IMAGERY, ASSOCIATED SCATTERED TO BROKEN LOW/MEDIUM CLOUDS WITH EMBEDED INTENSE TO VERY INTENSE CONVECTION LAY OVER SOUTHWEST RAJASTHAN, SOUTHEAST PAKISTAN AND KUTCH AREA. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 75°C. SCATTERED TO BROKEN LOW/MEDIUM CLOUDS WITH EMBEDED WEAK TO MODERATE CONVECTION LAY OVER NORTHEAST ARABIAN SEA, REST PARTS RAJASTHAN, SAURASHTRA, GUJARAT REGION AND GULF OF KUTCH.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED (MSW) IS 30 KNOTS GUSTING TO 40 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 990 HPA.

AT 0600 UTC, BARMER (42435) REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 993.6 HPA, 24 HOUR PRESSURE FALL (P24) OF -7.0 HPA AND MAXIMUM SUSTAINED WIND SPEED (MSW) OF 320°/09KT. DEESA (42539) REPORTED MSLP OF 997.3 HPA, P24 OF -1.4 HPA AND MSW OF 180°/18KT. JHODPUR (42339) REPORTED MSLP OF 997.3 HPA, P24 OF -3.5 HPA AND MSW OF 140°/ 02KT.

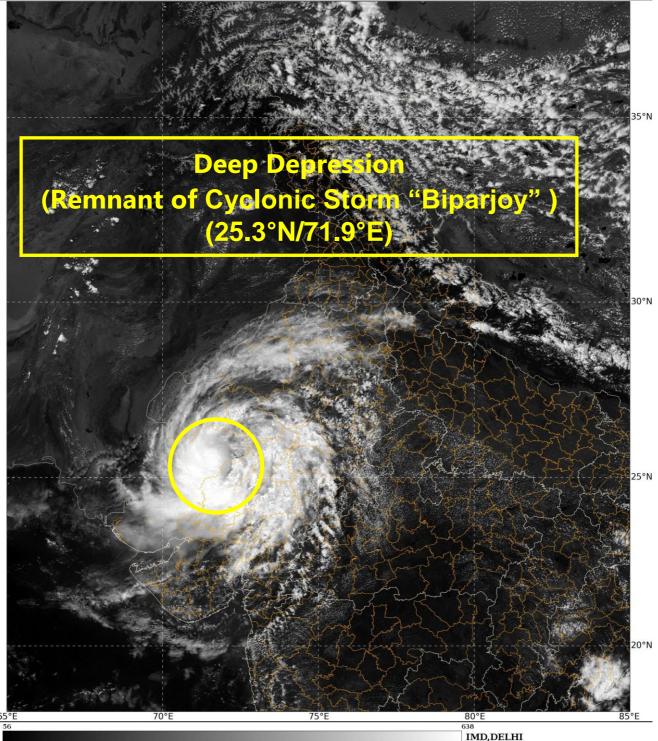
### **REMARKS:**

THE LOW LEVEL VORTICITY IS AROUND 200-250X10-6S-1 & IS LOCATED TO THE SOUTHWEST OF THE SYSTEM CENTRE. LOW LEVEL CONVERGENCE IS ABOUT 20X10-5S-1 TO THE SOUTHWEST OF THE SYSTEM CENTRE AND UPPER LEVEL DIVERGENCE IS ABOUT 20X10-5S-1 TO THE SOUTHWEST OF SYSTEM CENTRE. VERTICAL WIND SHEAR IS MODERATE TO HIGH (20-25 KNOTS) OVER THE SYSTEM AREA. THE SYSTEM IS STILL IN A MODERATELY FAVOURABLE ENVIRONMENT, 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 WEAKEN INTO A DEPRESSION AROUND 1200 UTC. THEREAFTER, IT IS VERY LIKELY TO CONTINUE TO MOVE EAST-NORTHEASTWARDS AND MAINTAIN THE INTENSITY OF DEPRESSION TILL AROUND 0300 UTC OF 18<sup>TH</sup> JUNE.

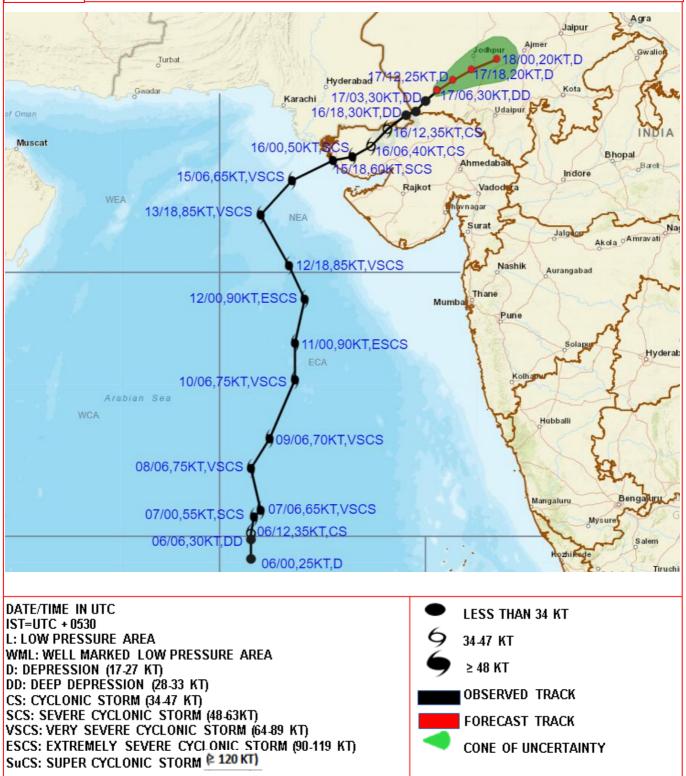
M. SHARMA SCIENTIST D RSMC NEW DELHI







OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF DEEP DEPRESSION (REMANANT OF CYCLONIC STORM BIPARJOY) OVER SOUTHWEST RAJASTHAN AND ADJOINING GUJARAT BASED ON 0600 UTC (1130 IST) OF 17<sup>TH</sup> JUNE 2023.





OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION (REMANANT OF CYCLONIC STORM BIPARJOY) OVER SOUTHWEST RAJASTHAN AND ADJOINING GUJARAT BASED ON 0600 UTC (1130 IST) OF 17TH JUNE 2023.

