



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 02.08.2023

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0300 UTC OF 02.08.2023 BASED ON 0000 UTC OF 02.08.2023.

SUB: DEEP DEPRESSION OVER GANGETIC WEST BENGAL

THE DEEP DEPRESSION OVER COASTAL BANGLADESH AND NEIGHBOURHOOD MOVED WEST-NORTHWESTWARDS WITH A SPEED OF 30 KMPH DURING PAST 6 HOURS AND LAY CENTRED AT 0000 UTC OF 02ND AUGUST, 2023 OVER GANGETIC WEST BENGAL NEAR LATITUDE 23.1°N AND LONGITUDE 87.2°E, CLOSE TO BANKURA (42706), ABOUT 130 KM WEST-NORTHWEST OF KOLKATA (42807) AND 190 KM EAST-SOUTHEAST OF RANCHI (42701).

IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS ACROSS JHARKHAND AND WEAKEN GRADUALLY INTO A DEPRESSION DURING NEXT 12 HOURS AND INTO A WELL MARKED LOW PRESSURE AREA DURING SUBSEQUENT 24 HOURS.

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

DATE/TIME	POSITION	MAXIMUM SUSTAINED	CATEGORY OF
(UTC)	(LAT. ⁰N/ LONG. ºE)	SURFACE	CYCLONIC
		WIND SPEED (KMPH)	DISTURBANCE
02.08.23/0000	23.1/87.2	50-60 GUSTING TO 70	DEEP DEPRESSION
02.08.23/0600	23.4/85.9	50-60 GUSTING TO 70	DEEP DEPRESSION
02.08.23/1200	23.6/84.8	45-55 GUSTING TO 65	DEPRESSION
02.08.23/1800	23.9/83.7	40-50 GUSTING TO 60	DEPRESSION
03.08.23/0000	24.2/82.6	35-45 GUSTING TO 55	DEPRESSION

ASSOCIATED SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER SOUTHWEST GANGETIC WEST BENGAL ADJOINING JHARKHAND, ODISHA AND NORTHWEST BAY OF BENGAL (BOB) & NEIBOURHOOD. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEGREE CELSIUS.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED IS 30 KNOTS GUSTING TO 40 KNOTS. ESTIMATED CENTRAL PRESSURE IS 988 HPA. SEA CONDITION IS LIKELY TO BE ROUGH TO VERY ROUGH OVER NORTH BOB AND ADJOINING BANGLADESH-WEST BENGAL-NORTH ODISHA COASTS TILL 0600 UTC OF $2^{\rm ND}$ AUGUST.

REMARKS:

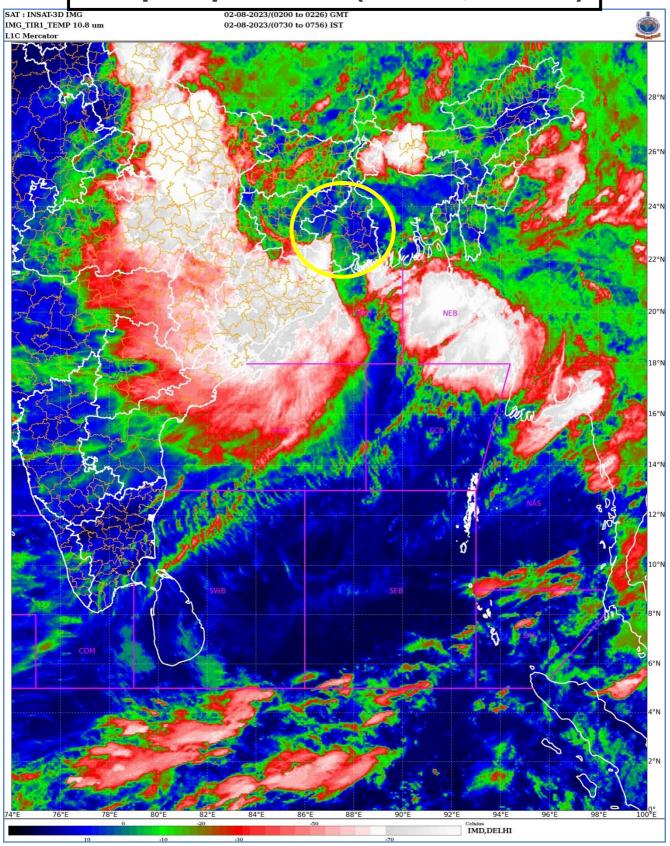
THE LOW LEVEL VORTICITY IS AROUND 150X10⁻⁶S⁻¹ TO THE SOUTHEAST OF SYSTEM CENTER AND VERTICALLY IT IS EXTENDING UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE IS ABOUT 20X10⁻⁵S⁻¹ AROUND THE SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS AROUND 20X10⁻⁵S⁻¹ AROUND SYSTEM CENTRE. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KNOTS) AROUND SYSTEM AREA AND ALONG EXPECTED TRACK. THE SYSTEM IS IN FAVOURABLE ENVIRONMENT AND IS LIKELY TO MAINTAIN IT'S INTENSITY OF DEEP DEPRESSION DURING NEXT 06 HOURS AND WEAKEN INTO A DEPRESSION THEREAFTER.

VARIOUS DETERMINISTIC MODELS ARE IN AGREEMENT THAT THE SYSTEM WOULD WEAKEN INTO A DEPRESSION INDICATE THAT THE SYSTEM WOULD MAINTAIN THE INTENSITY OF DEEP DEPRESSION TILL $2^{\rm ND}$ AUGUST/1200 UTC AND WEAKEN INTO A DEPRESSION THEREAFTER. MODELS ARE ALSO INDICATING WEST-NORTHWESTWARDS MOVEMENT OF THE SYSTEM TILL $3^{\rm RD}/0000$ UTC.

HENCE, IT IS INFERRED THAT THE DEEP DEPRESSION OVER GANGETIC WEST BENGAL IS LIKELY TO MOVE WEST-NORTHWESTWARDS ACROSS JHARKHAND AND WEAKEN GRADUALLY INTO A DEPRESSION DURING NEXT 12 HOURS AND INTO A WELL MARKED LOW PRESSURE AREA DURING SUBSEQUENT 24 HOURS.

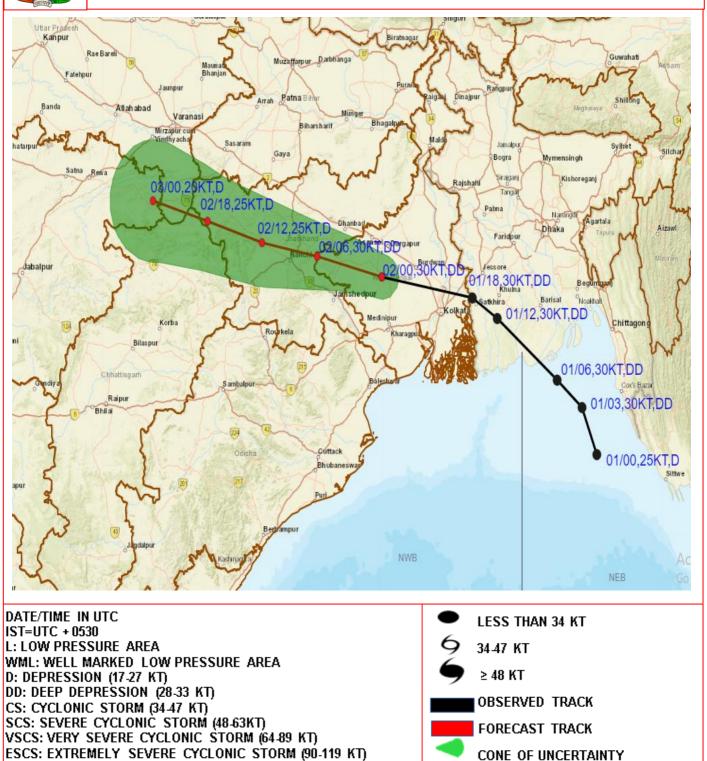
(M. SHARMA) SCIENTIST-D RSMC, NEW DELHI

Deep Depression (23.1°N, 87.2°E)





OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION OVER GANGETIC WEST BENGAL BASED ON 0000 UTC (0530 IST) OF 02ND AUGUST 2023.



SuCS: SUPER CYCLONIC STORM € 120 KT)



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER GANGETIC WEST BENGAL BASED ON 0000 UTC (0530 IST) OF 02ND AUGUST 2023.

