



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

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 25.07.2025**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR THE NORTH INDIAN OCEAN (THE BAY OF BENGAL OF BENGAL AND THE ARABIAN SEA) VALID FOR THE NEXT 168 HOURS ISSUED AT 1500 UTC OF 25.07.2025 BASED ON 1200 UTC OF 25.07.2025.**

### **Sub: Depression over Gangetic West Bengal**

The Depression over coastal West Bengal moved west-northwestwards with a speed of 22 kmph during past 6 hours and lay centred at 1200 UTC of today, the 25th July over Gangetic West Bengal, near Lat. 22.7°N and Long. 87.4°E, about 30 km north-northeast of Medinipur (West Bengal, 42803), 80 km south-southeast of Bankura (West Bengal, 42706), 120 km southeast of Purulia (West Bengal, 42705) and 130 km east of Jamshedpur (Jharkhand, 42799).

It is very likely to move west–northwestwards across Gangetic West Bengal & adjoining North Odisha, Jharkhand and adjoining north Chhattisgarh during next 24 hours.

Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over Gangetic West Bengal, Odisha, coastal Andhra Pradesh, South Bangladesh and north & central Bay of Bengal. The minimum cloud top temperature is minus 70°C to 90°C.

The associated maximum sustained wind speed is 25 kt gusting to 35 kt. The estimated central pressure is 988 hPa. Bankura reported maximum sustained wind (MSW) speed of 50<sup>0</sup>/02Kt and mean sea level pressure (MSLP) of 989 hPa and Jamshedpur reported MSLP of 988.8 hPa and MSW of 90<sup>0</sup>/02Kt.

### **Wind Warning:**

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is prevailing over north Bay of Bengal, along & off Odisha, West Bengal and Bangladesh coasts and is likely to continue for next 24 hours. Squally wind speed reaching 30-40 kmph gusting to 50 kmph is likely over West Bengal, Jharkhand, and North Odisha during next 24 hours.

### **Sea Condition:**

**Sea condition is very likely to be rough to very rough over** north Bay of Bengal and along & off Odisha, West Bengal and Bangladesh coasts during next 24 hours.

### **Fishermen Warning:**

Fishermen are advised not to venture into north Bay of Bengal, along & off Odisha, West Bengal and Bangladesh coasts for next 24 hours.

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°Cto-40°C,(c)Intense:CTT: -41°Cto -70°Cand(d)Very Intense::Less than -70°C  
PROBABILITYOFCYCLOGENESIS(FORMATIONOFDEPRESSION):NIL:0%,LOW:1-33%,MODERATE:34-66%ANDHIGH:67-100%  
ThisisaguidanceBulletinforWMO/ESCAPPanelMembercountries.VisitrespectiveNationalwebsitesforCountry-specificBulletins

## REMARKS:

Madden Julian Oscillation (MJO) is currently in phase 7 with an amplitude greater than 1. Most of the model forecasts have a consensus and suggest that the MJO is likely to propagate eastwards across phase 7 with decreasing amplitude during next 3 days. Thus, MJO is not likely to support cyclogenesis over BoB.

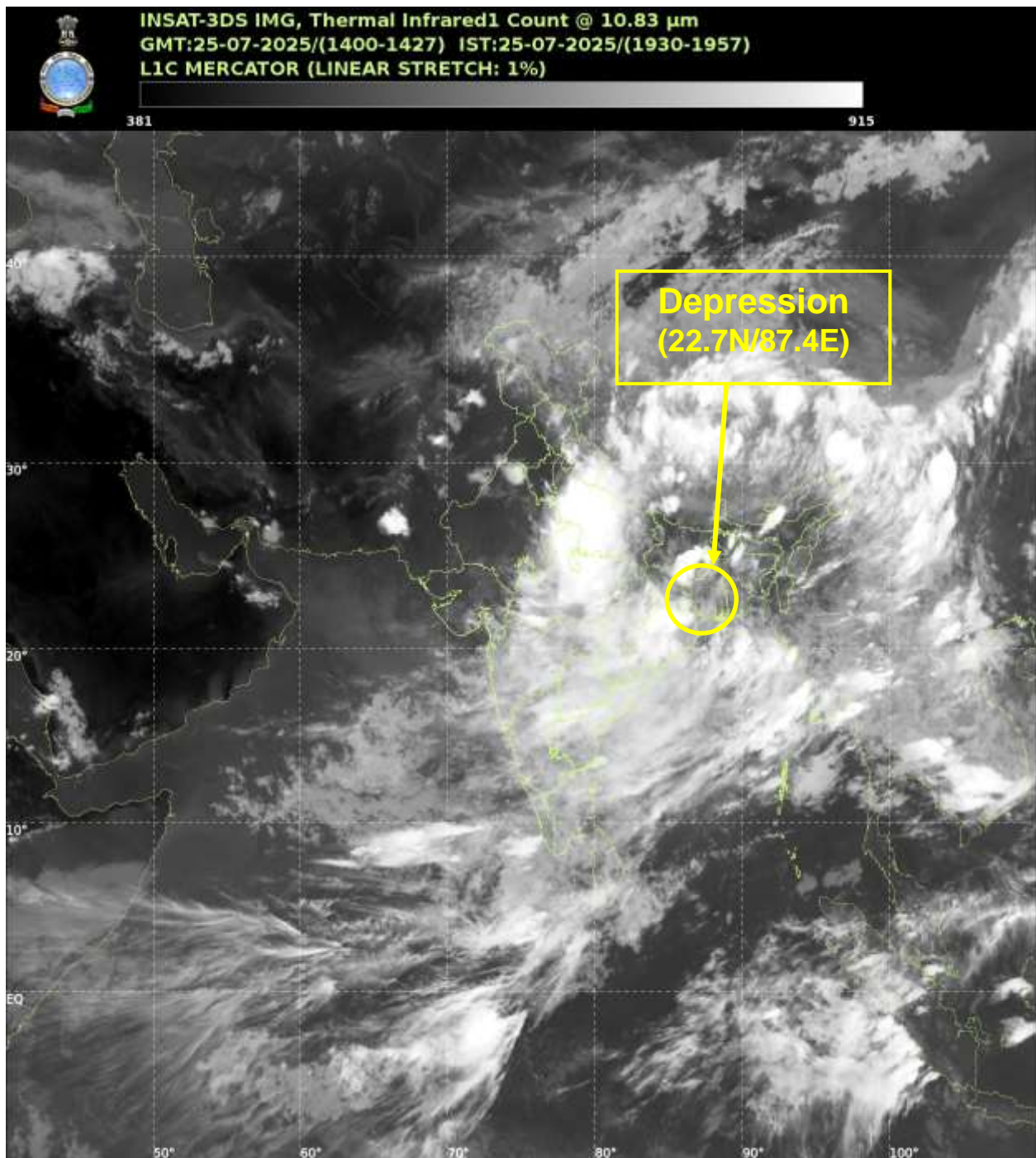
The guidance from the NCICS CFS model indicates the prevalence of strong westerly wind anomaly (5-7 mps) over the south Bay of Bengal (BoB). The easterly wind anomaly (3-5 mps) is likely over the northern parts of BoB and east India. Model is also indicating prevalence of Equatorial Rossby waves (ERW) over central BoB and Kelvin wave over north BoB. Equatorial waves will support convective activity over the BoB and eastern parts of India.

The positive low level vorticity has decreased and is around  $70-80 \times 10^{-6} \text{ s}^{-1}$  over northeast BoB with vertical extension upto 200 hPa level. Positive low level convergence is same in past 6 hours and is around  $15 \times 10^{-6} \text{ s}^{-1}$  to the southeast of system centre over Odisha. Positive upper level divergence has decreased in past 6 hours and is around  $05-10 \times 10^{-6} \text{ s}^{-1}$  to the southwest of system centre over central India. Vertical wind shear of horizontal wind is moderate (10-15 kt) over the system area and along the predicted path. The system is being steered west-northwestwards by the east-southeasterly winds in the mid-layer.

Most of the models are indicating west-northwestwards movement of the system across Gangetic West Bengal, and adjoining North Odisha and Jharkhand during next 24 hours.

Under these conditions, the depression over Gangetic West Bengal is very likely to move west-northwestwards across Gangetic West Bengal & adjoining North Odisha, Jharkhand and adjoining north Chhattisgarh during next 24 hours.

Monica Sharma  
Scientist-E  
RSMC New Delhi

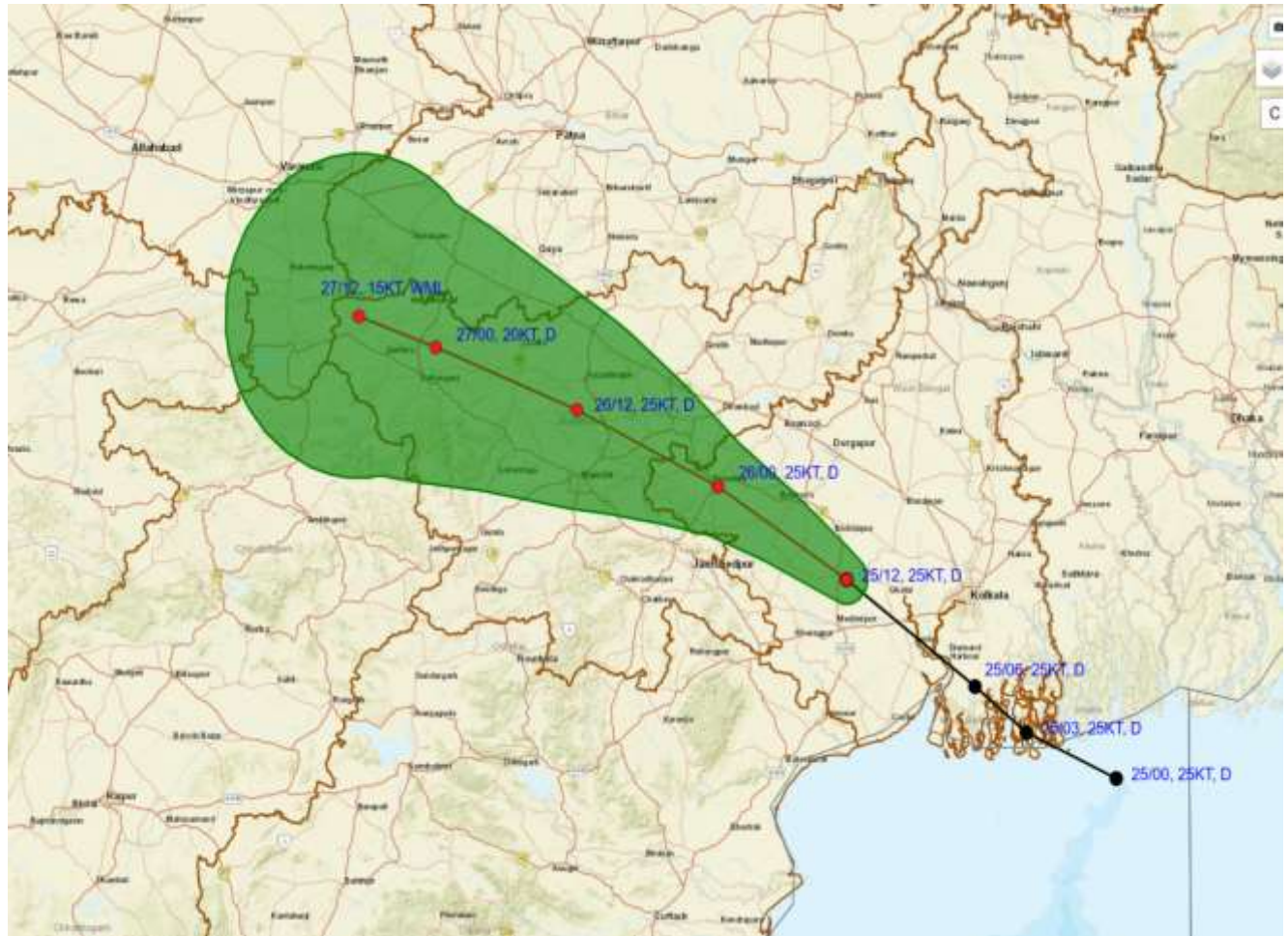


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## OBSERVED AND FORECAST TRACK OF DEPRESSION OVER GANGETIC WEST BENGAL AT 1730 HRS. IST (1200 UTC) OF 25<sup>th</sup> JULY 2025



DATE/TIME IN UTC

IST=UTC + 0530

1KT=1.85 KMPH

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



## Flash Flood Guidance

### **Persistent Flash Flood Threat (PFFT) till 2330 IST of 25-07-2025 :**

**Moderate to High flash flood threat** likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 6 hours.

**Chhattisgarh** - Jashpur, Korea, Surajpur and Surguja districts.

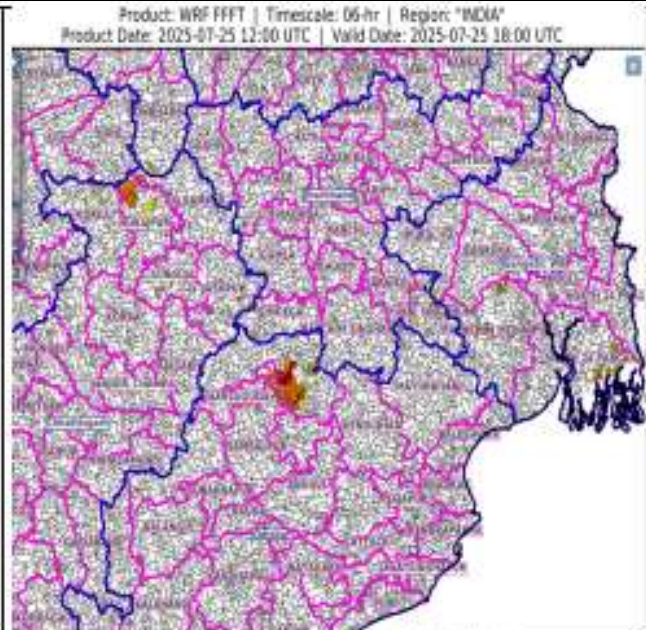
**East Madhya Pradesh** - Sidhi district.

**Odisha** - Sambalpur and Sundargarh districts.

**Gangetic West Bengal** - Pashchim Medinipur, Puruliya and South 24 Parganas districts.

**Jharkhand** - East Singhbhum, Saraikela and Simdega districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 6 hours.



### **24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 26-07-2025 :**

**Moderate to High flash flood risk** likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

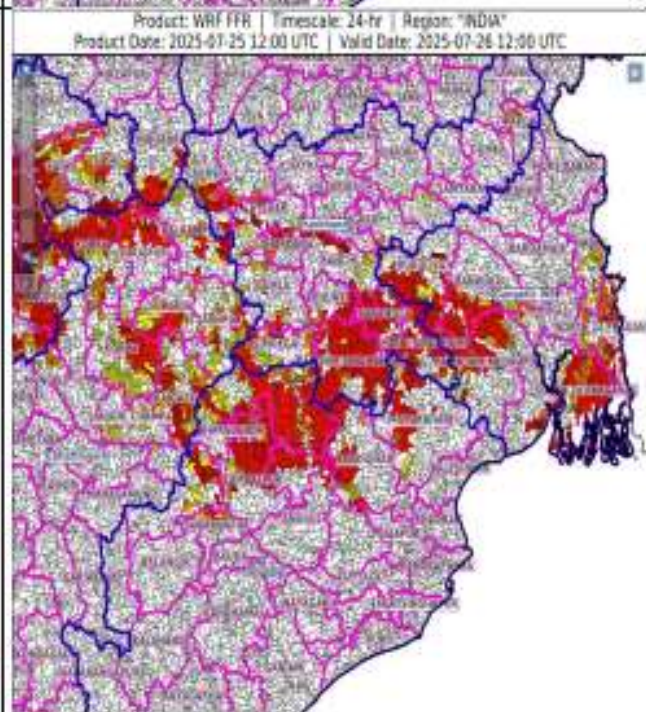
**Chhattisgarh** - Balarampur, Bilaspur, Janjgir Champa, Korba, Korea, Raigarh, Surajpur and Surguja districts.

**Odisha** - Baragarh, Deogarh, Jharsuguda, Kendujhar, Mayurbhanj, Sambalpur, Subarnapur and Sundargarh districts.

**Gangetic West Bengal** - Bankura, Eastmednipur, Nadia, North 24 Pragana, Pashchim Medinipur, Puruliya and South 24 Parganas districts.

**Jharkhand** - Dhanbad, East Singhbhum, Garhwa, Gumla, Khunti, Latehar, Lohardaga, Palamu, Ranchi, Saraikela, Simdega and West Singhbhum districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.





**24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 26-07-2025 :**

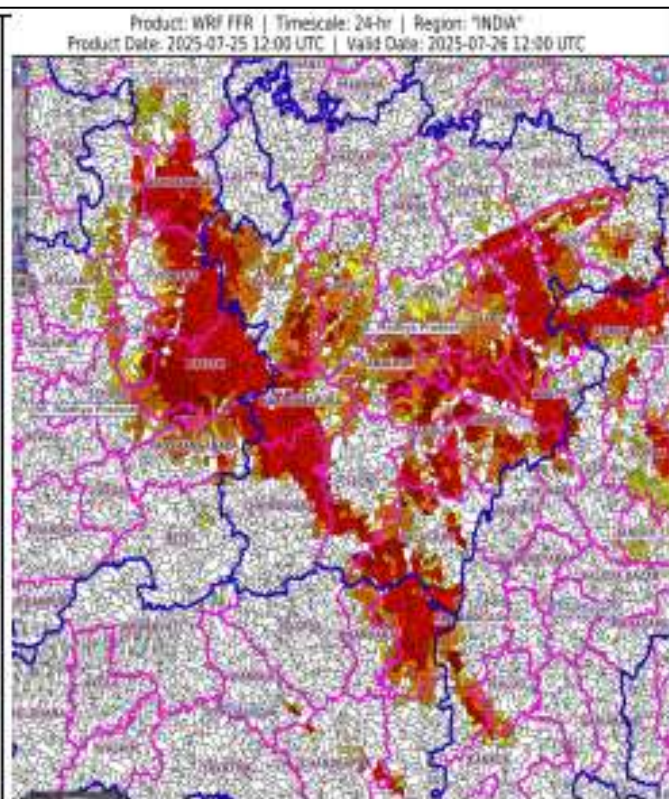
**Moderate to High flash flood risk** likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

**East Madhya Pradesh** - Anuppur, Balaghat, Chhindwara, Damoh, Dindori, Jabalpur, Katni, Mandla, Narshimpur, Niwari, Panna, Rewa, Sagar, Satna, Seoni, Shahdol, Sidhi, Singrauli, Tikamgarh and Umaria districts.

**Vidarbha** - Bhandara, Chandrapur, Gadchiroli, Gondiya and Wardha districts.

**West Madhya Pradesh** - Ashoknagar, Betul, Bhopal, Guna, Raisen, Rajgarh, Sehore, Shivpuri, Videsha and Hoshangabad districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.



## Fishermen Warning Graphics

