

India Meteorological Department (Ministry of Earth Sciences)

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Sub: Deep Depression over Gangetic West Bengal and adjoining Jharkhand

The deep depression over Gangetic West Bengal moved slowly west-northwestwards with a speed of 8 kmph during past 6 hours and lay centered at 0830 hours IST of today, the 16th September 2024, over the Gangetic West Bengal and adjoining Jharkhand near latitude 23.1° N and longitude 86.7° E, about 40 km southeast of Purulia (West Bengal), 50 km southwest of Bankura (West Bengal), 60 km east-northeast of Jamshedpur (Jharkhand) and 140 km east of Ranchi (Jharkhand).

It is likely to move west-northwestwards across Gangetic West Bengal & Jharkhand and weaken into a depression during next 12 hours. Thereafter, it will continue to move west-northwestwards across Jharkhand and North Chhattisgarh during subsequent 24 hours.

Forecast track and intensity are given in the following table:

Date/Time (IST)	Position	Maximum	Category Of Cyclonic
	(Lat. °N/ Long. °E)	Sustained Surface Wind	Disturbance
		Speed (Kmph)	
16.09.24/0830	23.1/86.7	50-60 gusting to 70	Deep Depression
16.09.24/1730	23.3/85.9	50-60 gusting to 70	Deep Depression
17.09.24/0530	23.7/84.3	45-55 gusting to 65	Depression
17.09.24/1730	24.2/82.7	35-45 gusting to 55	Depression

Warnings:

(i) Rainfall warning

Jharkhand: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places & **isolated extremely heavy rainfall** over south Jharkhand & **isolated heavy to very heavy rainfall** over North Jharkhand on 16th September. Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places over Jharkhand on 17th September.

Gangetic West Bengal: Light to moderate rainfall at most places is very likely with **heavy rainfall** at isolated places over Gangetic West Bengal on 16th September.

Odisha: Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at isolated places over North Odisha on 16th September and **heavy rainfall** at isolated places over Northwest Odisha on 17th September.

Bihar: Light to moderate rainfall at most places with **heavy rainfall** at isolated places is very likely over South Bihar on 16th and 17th September.

Chhattisgarh: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places over North Chhattisgarh during 16th to 17th September.

Madhya Pradesh: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places is likely over Northeast Madhya Pradesh on 16th & 17th September and **heavy rainfall** at isolated places on 18th September. Light to moderate rainfall at most places with **heavy rainfall** at isolated places over Northwest Madhya Pradesh during 17th to 18th September.

Uttar Pradesh: Light to moderate rainfall at many places with **heavy to very rainfall** at isolated places over Southeast Uttar Pradesh during 16th and 17th September. Light to moderate rainfall at many places with **heavy to very rainfall** at isolated places over West Uttar Pradesh on 17th and **heavy rainfall** at isolated places on 18th September.

(ii) Flash Flood Guidance: (Graphics Attached)

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 17-09-2024:

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Subdivisions during next 24 hours.

Odisha - Keonujhar, Mayurbhanj, Deogarh, Baragarh, Jharsuguda, Subarnpur, Sambalpur and Sundargarh districts.

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

Jharkhand - Bokaro, Chatra, Deoghar, Dhanbad, Dumka, East & West Singhbhum, Garhwa, Giridih, Godda, Gumla, Hazaribagh, Jamtara, Khunti, Koderma, Latehar, Lohardaga, Pakur, Palamu, Ramgarh, Ranchi, Sahebganj, and Saraikela districts.

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

(iii) Wind warning:

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail along & off West Bengal & north Odisha coasts and adjoining north Bay of Bengal during next 6 hours. Thereafter, it is likely to become 40-50 kmph gusting to 60 kmph till evening of 16th September and decrease further.

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over Gangetic West

Bengal and adjoining Jharkhand & north Odisha till evening of 16th September. Thereafter, it is likely to decrease gradually becoming 40-50 kmph gusting to 60 kmph over Jharkhand and adjoining Southeast Uttar Pradesh & North Chhattisgarh till 17th September evening and decrease thereafter.

(iv) Sea Condition:

Rough to very rough sea condition is very likely to prevail over north Bay of Bengal and along & off West Bengal-Odisha coasts during next 6 hours.

Subsequently, Rough Sea condition is likely to prevail over north Bay of Bengal and along & off West Bengal-Odisha coasts from afternoon of 16th September and improve thereafter.

(iv) Fishermen Warning:

Fishermen are advised not to venture into north Bay of Bengal and along & off Bangladesh, West Bengal, and Odisha coasts till 16th September.

Impact Expected (Jharkhand, North Chhattisgarh, North Odisha, Gangetic West Bengal, South Bihar and Northeast Madhya Pradesh due to heavy rainfall and strong winds)

- ✓ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ✓ Occasional reduction in visibility due to heavy rainfall.
- ✓ Disruption of traffic in major cities and roadways due to water logging in roads and poor visibility due to heavy rain leading to increased travel time and incidents
- ✓ Likely disruption of inland water transportation like small boats and trawlers.
- ✓ Minor damage to kutcha roads.
- ✓ Possibilities of damage to vulnerable structure.
- ✓ Localized Landslides/Mudslides/landslips/mud slips/land sinks/mud sinks.
- ✓ Damage to horticulture and standing crops in some areas due to inundation and wind.
- ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Action Suggested (Jharkhand, North Chhattisgarh, North Odisha, Gangetic West Bengal, South Bihar and Northeast Madhya Pradesh due to heavy rainfall and strong winds)

- ✓ Fishermen are advised not to venture into north Bay of Bengal till16th September.
- ✓ Judicious regulation of surface transports including railways.
- ✓ Check for traffic congestion on your route before leaving for your destination.
- ✓ Follow any traffic advisories that are issued in this regard.
- ✓ Avoid going to areas that face the water logging problems often.
- ✓ Avoid staying in vulnerable structure.

Agromet advisories for Heavy Rainfall likely over various parts of the country

- ✓ Provide mechanical support to horticultural crops & staking to vegetables.
- ✓ Keep the harvested produce at safer places.

Significant amount of rainfall (in cm; from 0830 hours IST to 0830 hours IST of today, the 16th September, 2024).

Odisha: Balasore-10.

Jharkhand: Jamshedpur-9, Daltonganj-6, Ranchi-3;

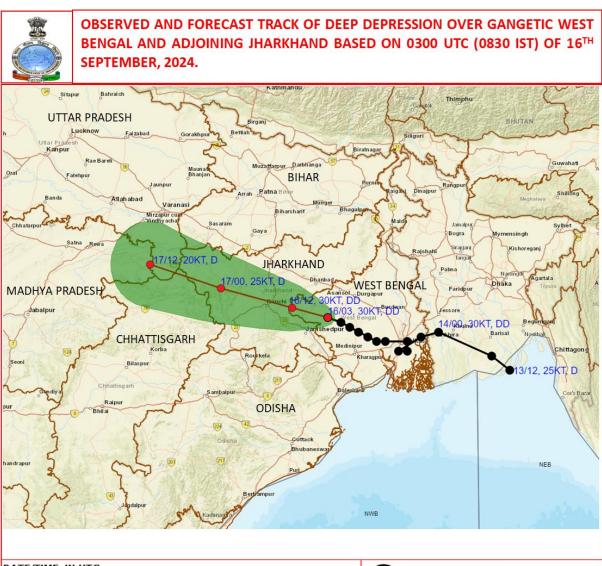
Gangetic West Bengal: Bankura-8, Kolkata (Alipore)-3, Digha-5, Malda-2;

Chhattisgarh: Ambikapur-5;

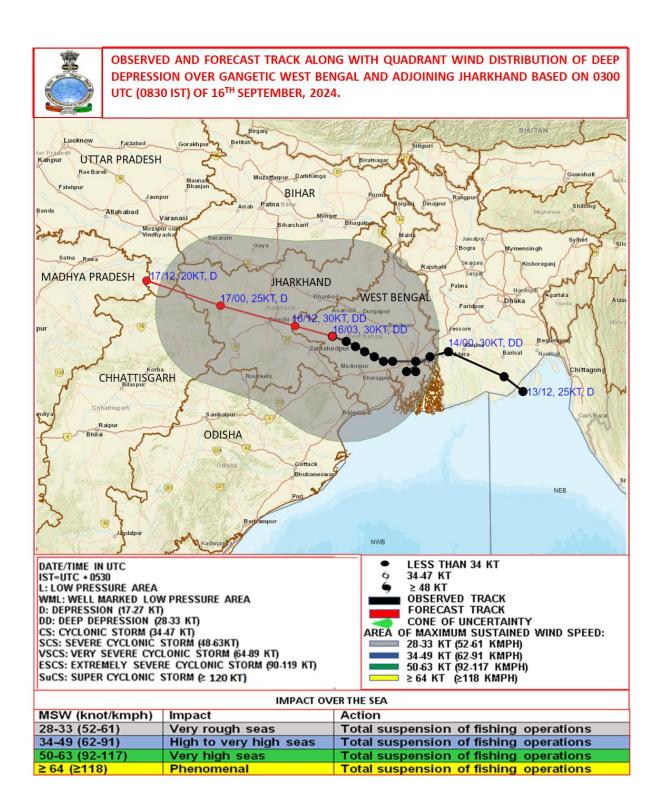
The next bulletin will be issued at 1430 hrs IST of today, the 16th September, 2024.

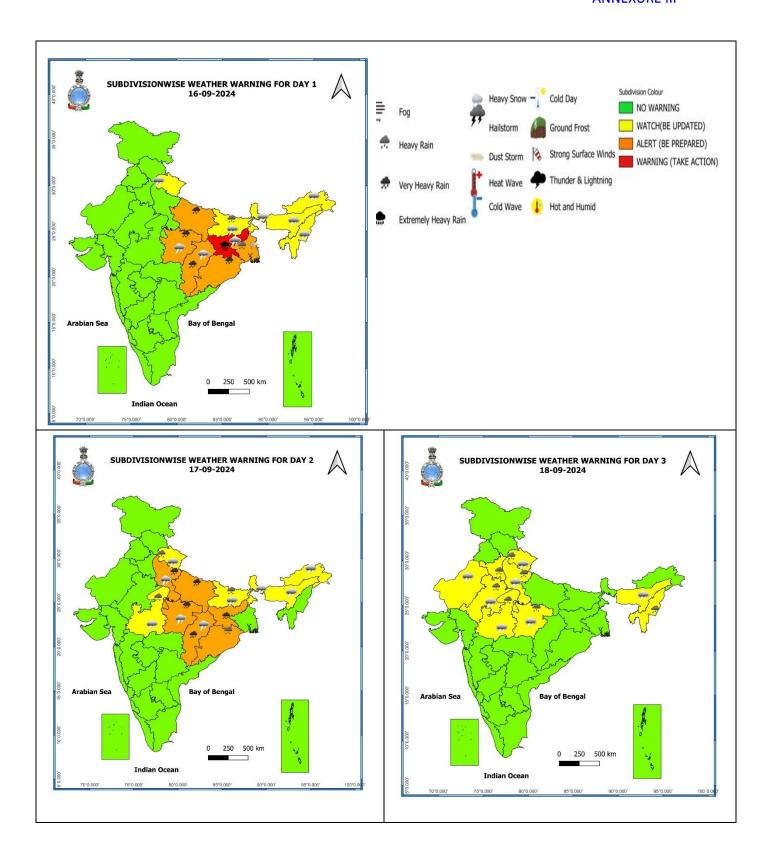
(Dr. Suprit Kumar) Scientist-E, RSMC, New Delhi

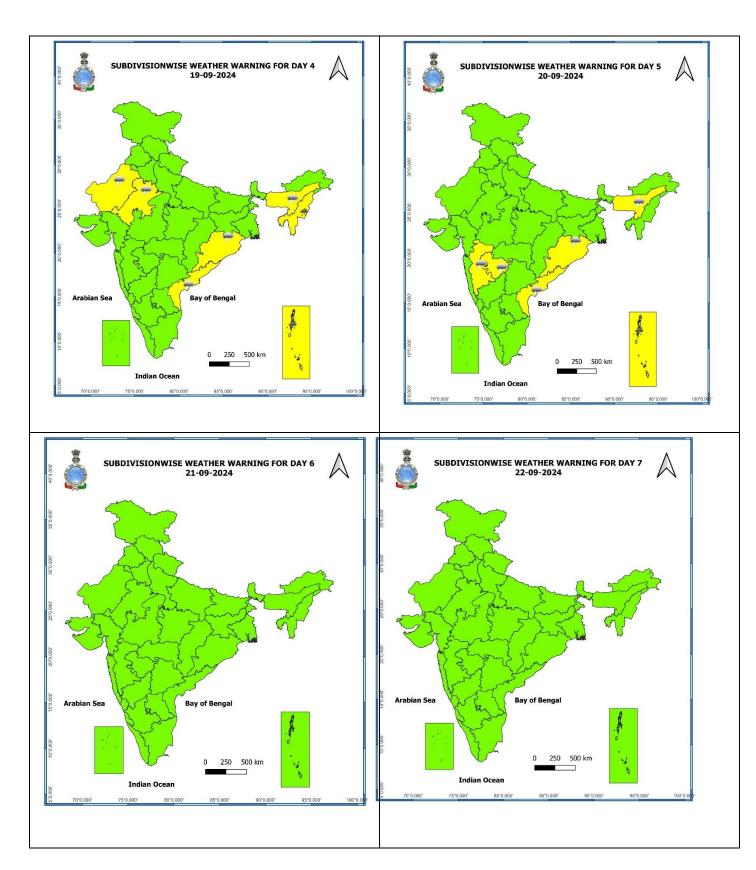
Copy to: CRS, Pune/RMC Chennai /RMC Kolkata/RMC Guwahati/MC Bhubaneswar/MC Ranchi/MC Patna/MC Raipur/ MC Agartala/ MC Shillong/MC Aizawl/Mc, Bhopal/MC Lucknow



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 (20-119 KT)

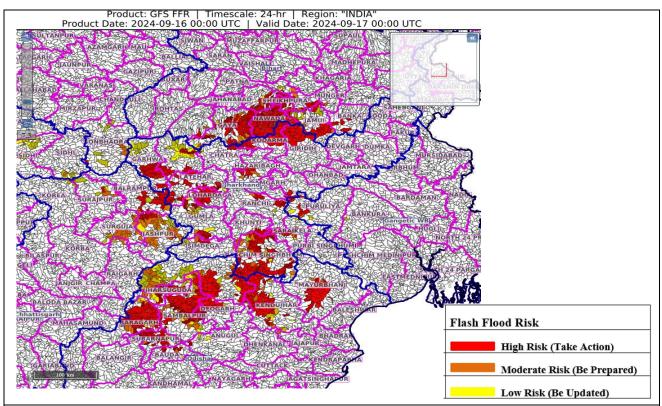






- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Flash Flood Guidance



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





