

India Meteorological Department (Ministry of Earth Sciences)

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Sub: Depression over Jharkhand and adjoining north Chattisgarh

The deep depression over Jharkhand moved west-northwestwards with a speed of 8 kmph during past 6 hours, **weakened into a depression** and lay centered at 0530 hours IST of today, the 17th September 2024, over Jharkhand and adjoining north Chattisgarh near latitude 23.6° N and longitude 84.2° E, around 50 km south-southeast of Daltonganj (Jharkhand), about 110 km east-northeast of Ambikapur (Chhattisgarh), about 120 km west-northwest of Ranchi (Jharkhand), and 160 km southeast of Churk (Uttar Pradesh).

It is likely to continue to move west-northwestwards across Jharkhand, north Chhattisgarh, south Uttar Pradesh and adjoining northeast Madhya Pradesh and weaken into a Well-Marked Low Pressure Area during next 24 hours.

Warnings:

(i) Rainfall warning

Jharkhand: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places over Jharkhand on 17th September.

Odisha: Light to moderate rainfall at most places is very likely with **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 17th September.

Chhattisgarh: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places over North Chhattisgarh on 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 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 on 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) Wind warning:

Squally wind speed reaching 40-50 kmph gusting to 60 kmph over Jharkhand and adjoining Southeast Uttar Pradesh & North Chhattisgarh till 17th September evening and decrease thereafter.

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

- ✓ 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.

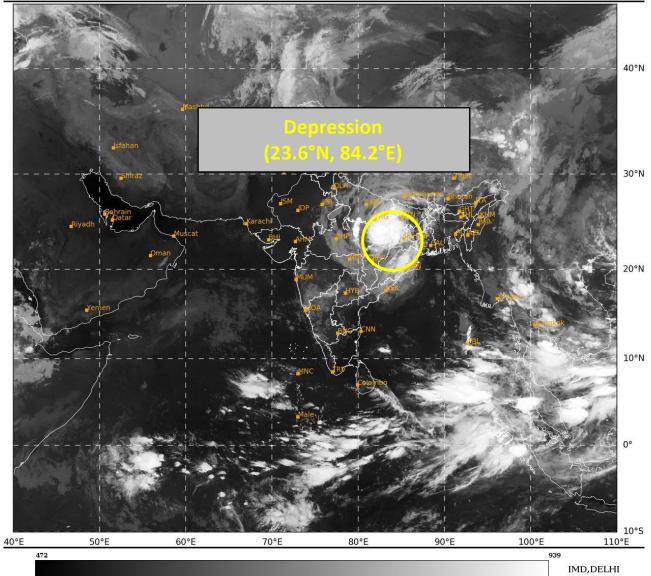
24 hours accumulated realised rainfall during 0830 hours IST of yesterday, the 16^{th} September to 0530 hours IST of today, the 17^{th} September is placed at Annexure-1.

The next bulletin will be issued at 1130 hrs IST of the 17th September, 2024.

(Shibin Balakrishnan) Scientist-D, RSMC, New Delhi

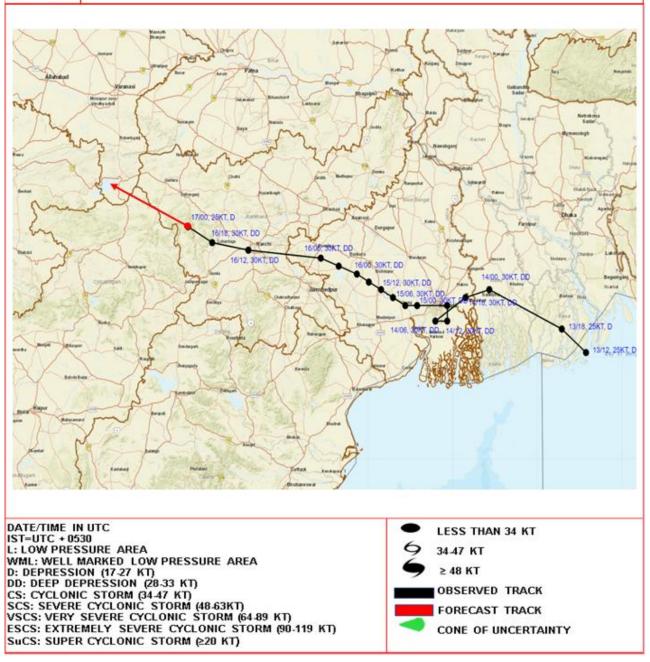
Copy to: CRS, Pune/RMC Chennai /RMC Kolkata/RMC Guwahati/MC Bhubaneswar/MC Ranchi/MC Patna/MC Raipur/ MC Agartala/ MC Shillong/MC Aizawl/Mc, Bhopal/MC Lucknow



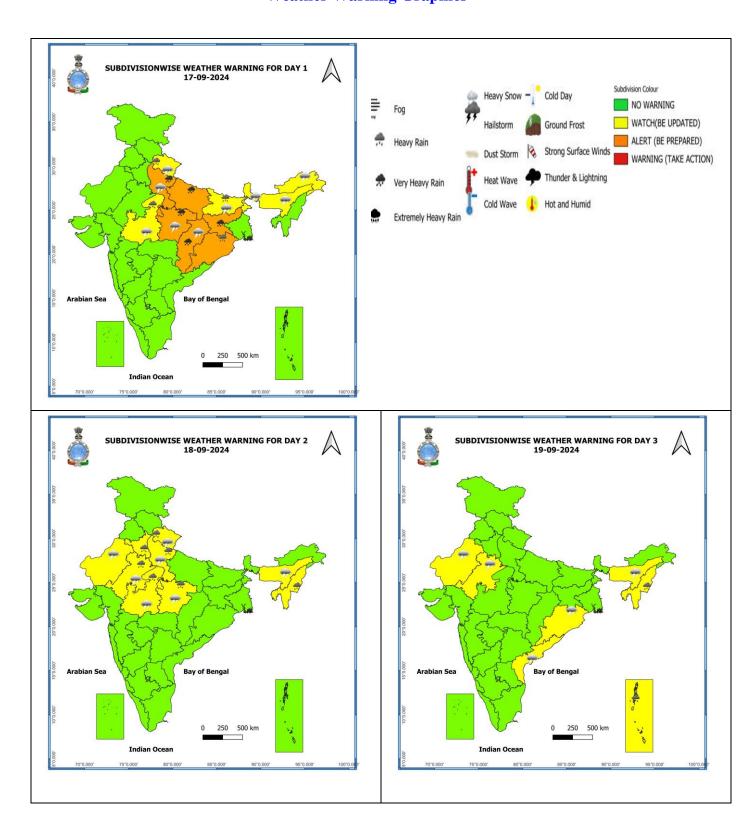


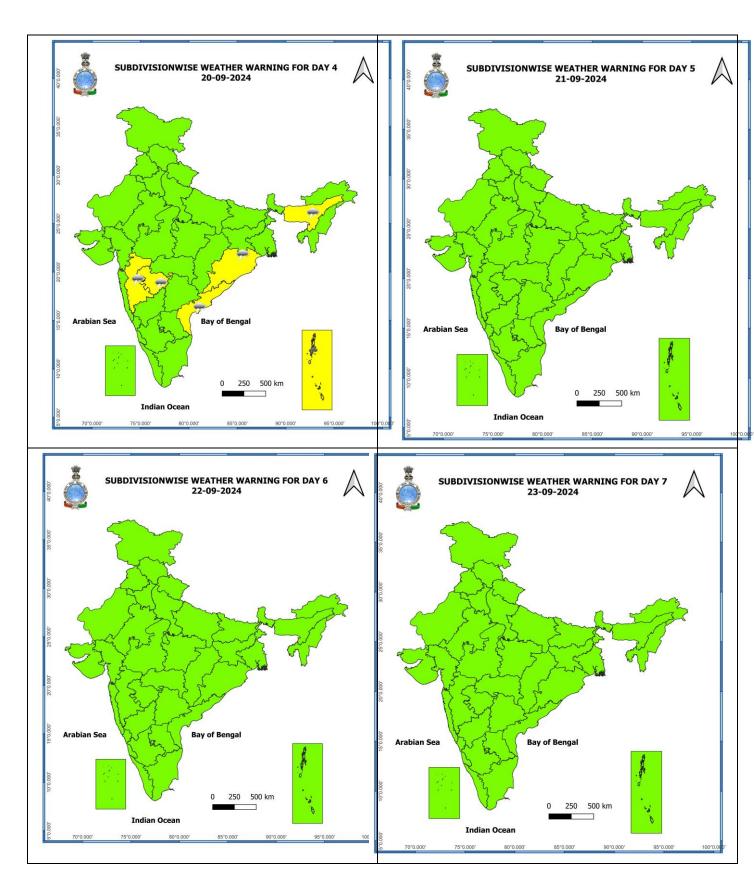


OBSERVED AND FORECAST TRACK OF DEPRESSION OVER JHARKHAND AND ADJOINING NORTH CHHATTISGARH BASED ON 0000 UTC (0530 IST) OF 17TH SEPTEMBER 2024.



Weather Warning Graphics





- 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

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 18-09-2024 :

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

East Uttar Pradesh - Chandauli, Mirzapur, Prayagraj and Sonbhadra districts.

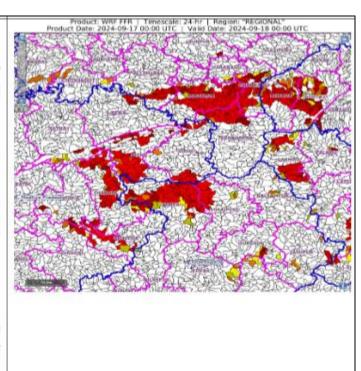
Chhattisgarh - Korea and Surajpur districts.

East Madhya Pradesh - Anuppur, Dindori, Rewa, Satna, Shahdol, Sidhi, Singrauli and Umaria districts.

Bihar - Bhabua and Rohtas districts.

Jharkhand - Garhwa district.

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.



Realised rainfall during 0830 hrs IST of 16th Sep to 0530 hrs IST of 17th Sep

Jharkhand: Ranchi 11, Daltonganj 6, Jamshedpur 3.

East Madhya Pradesh: Jabalpur 5, Satna 4.

Gangetic West Bengal: Bankura 4, Panagarh 3.

Odisha: Balasore 4, Chandbali 3, Puri 3.

East Uttar Pradesh: Bahraich 3, Prayagraj 2.