

India Meteorological Department (Ministry of Earth Sciences)

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FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, JHARKHAND (FAX NO. 0651-2400255)

CHIEF SECRETARY, BIHAR (FAX NO. 0612-2217085)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, ODISHA (FAX NO. 0674-2536660)

CHIEF SECRETARY, CHHATTISGARH (FAX NO. 0771-2221206)

CHIEF SECRETARY, UTTAR PRADESH (FAX NO. 0522-2239283)

CHIEF SECRETARY, MADHYA PRADESH (FAX NO. 0755 – 2441076)

CHIEF SECRETARY, RAJASTHAN (FAX NO. 0141-2227114)

Sub: Depression over North Chhattisgarh and adjoining northeast Madhya Pradesh

The depression over Northeast Chhattisgarh and adjoining Jharkhand moved westwards with a speed of 25 kmph during past 6 hours and lay centered at 1130 hours IST of today, the 17th September 2024, over **North Chhattisgarh and adjoining northeast Madhya Pradesh** near latitude 23.7° N and longitude 82.7° E, around 80 km northwest of Ambikapur (Chhattisgarh), 120 km southeast of Sidhi (Madhya Pradesh), 130 km northeast of Pendra Road (Chhattisgarh), 140 km west-southwest of Daltonganj (Jharkhand) and 190 km east of Umaria (Madhya Pradesh).

It is likely to move nearly west-northwestwards across northwest Chhattisgarh, south Uttar Pradesh and adjoining northeast Madhya Pradesh and weaken into a Well-Marked Low Pressure Area during next 12 hours.

Warnings:

(i) Rainfall warning

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

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 rainfall** at isolated places over Southwest Uttar Pradesh on 17th and 18th September.

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

East Rajasthan: Light to moderate rainfall at many places with **heavy rainfall** at isolated places on 17th September.

(ii) Flash Flood Guidance: (Graphics Attached)

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 18-09-2024:

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

East Uttar Pradesh – Banda district

West Uttar Pradesh - Hamirpur, Jhansi, Lalitpur and Mahoba districts.

East Madhya Pradesh - Chhatarpur, Damoh, Jabalpur, Katni, Mandla, Narshimapura, Panna, Sagar and Seoni districts.

West Madhya Pradesh - Ashoknagar, Bhind, Datia, Gwalior, Shivpuri and Videsha districts.

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

(iii) Wind warning:

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

Impact Expected (North Madhya Pradesh, south Uttar Pradesh, Jharkhand, North Chhattisgarh and South Bihar 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)

and South Bihar 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.

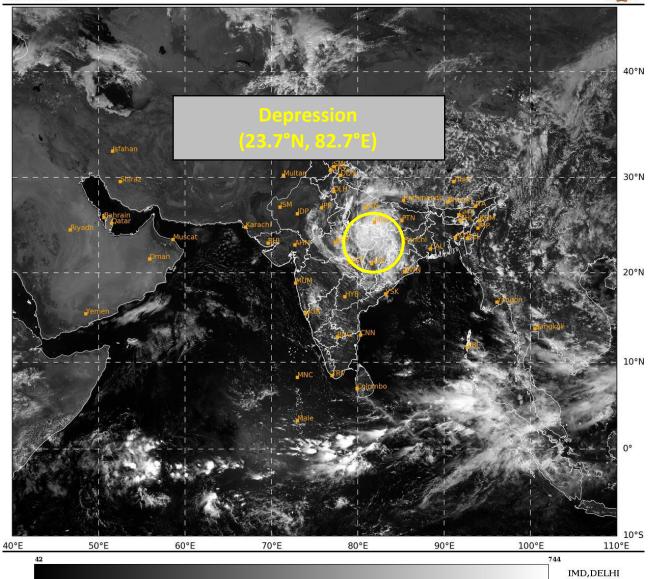
24 hours accumulated realised rainfall during 0830 hours IST of yesterday, the 16^{th} September to 0830 hours IST of today, the 17^{th} September is placed at Annexure-1.

The next bulletin will be issued at 2000 hrs IST of the 17th September, 2024.

(Dr. Shashi Kant) Scientist-D, RSMC, New Delhi

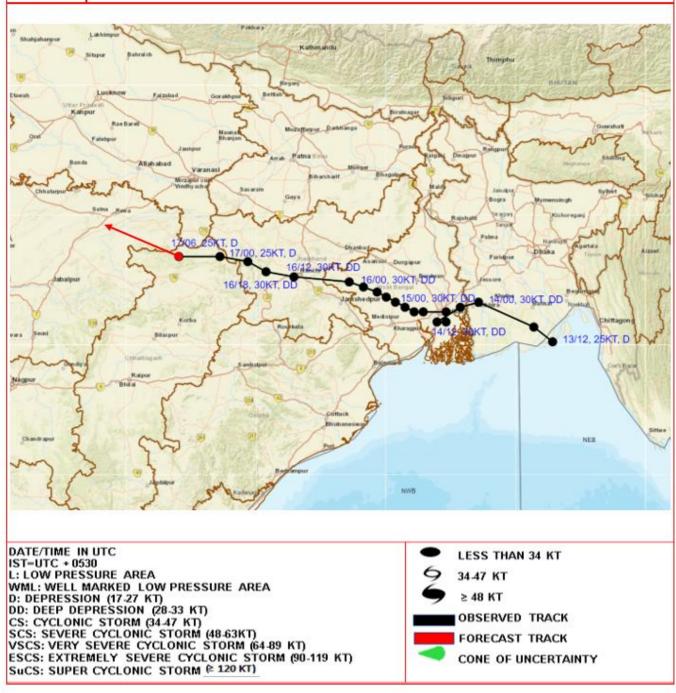
Copy to: CRS, Pune/RMC Chennai /RMC Kolkata/RMC Guwahati/MC Bhubaneswar/MC Ranchi/MC Patna/MC Raipur/ MC Agartala/ MC Shillong/MC Aizawl/Mc, Bhopal/MC Lucknow



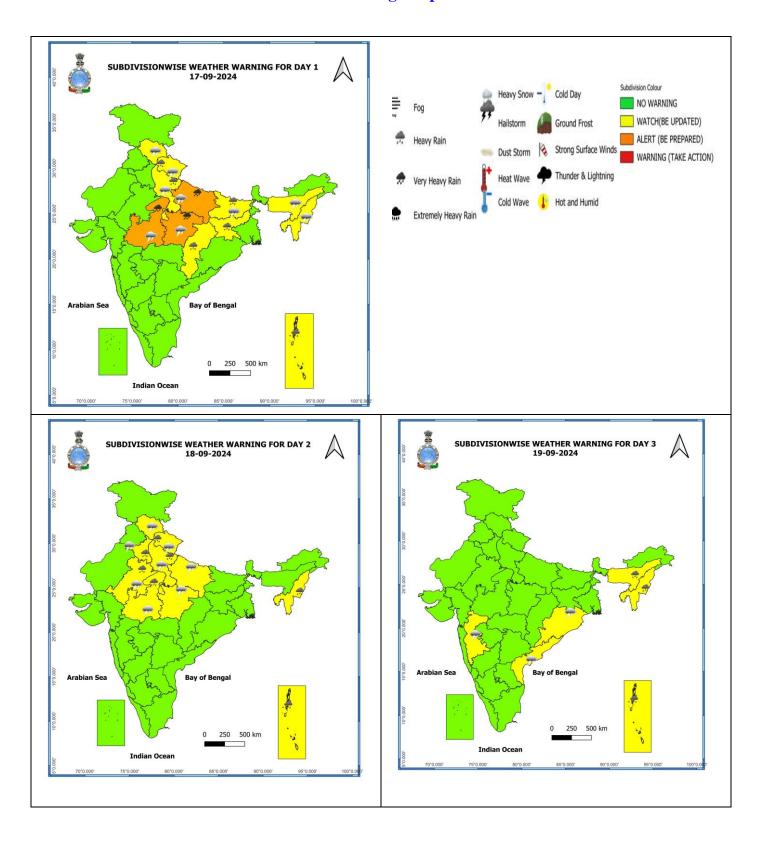


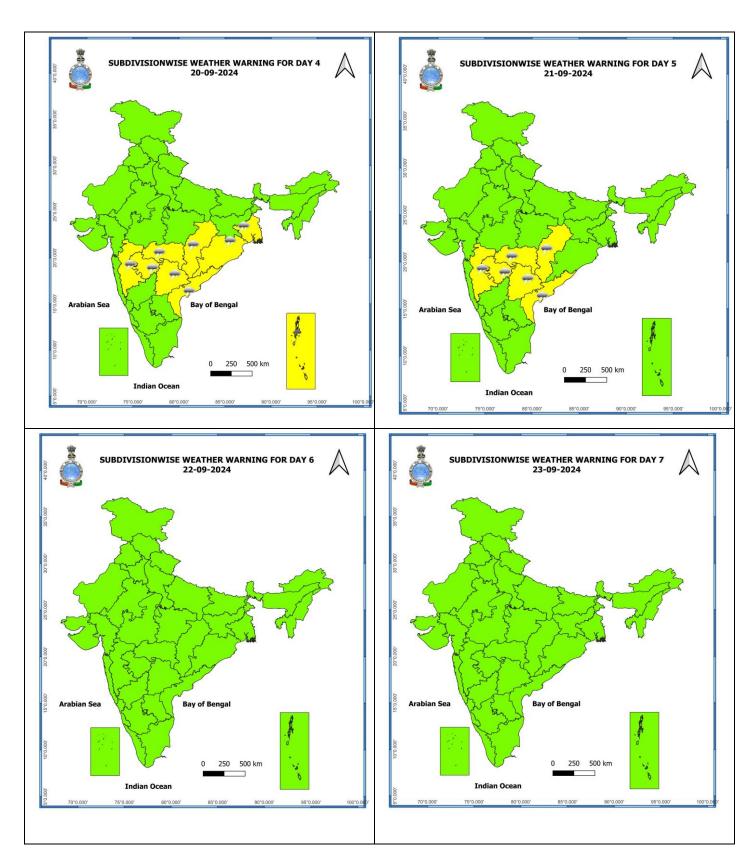


OBSERVED AND FORECAST TRACK OF DEPRESSION OVER NORTH CHHATTISGARH AND ADJOINING NORTHEAST MADHYA PRADESH BASED ON 0600 UTC (1130 IST) OF 17TH SEPTEMBER 2024.



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 1130 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.

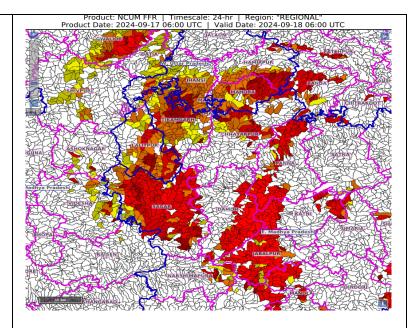
> East Uttar Pradesh – Banda district

West Uttar Pradesh -Hamirpur, Jhansi, Lalitpur and Mahoba districts.

East Madhya Pradesh - Chhatarpur, Damoh, Jabalpur, Katni, Mandla, Narshimapura, Panna, Sagar and Seoni districts.

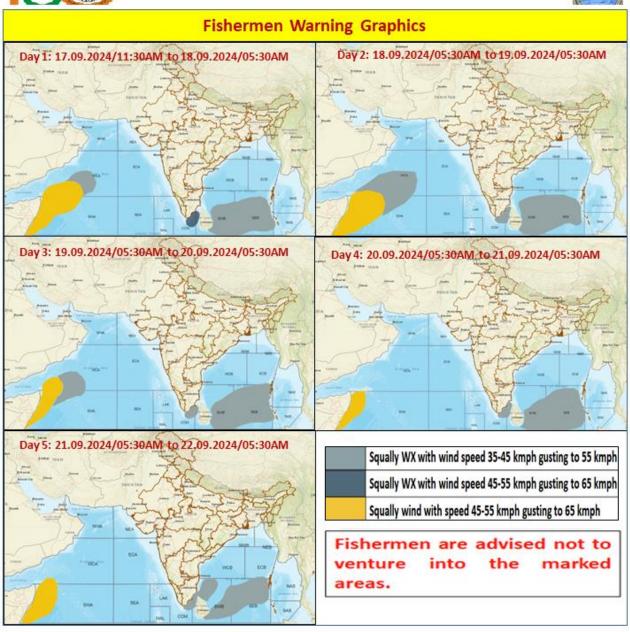
West Madhya Pradesh -Ashoknagar, Bhind, Datia, Gwalior, Shivpuri and Videsha districts.

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









24 hours accumulated realised rainfall during 0830 hours IST of yesterday, the 16th September to 0830 hours IST of today, the 17th September

Jharkhand: Latehar Balumat (dist Latehar) 20, Nandadih (dist Giridih) 15, Chandankiary (dist Bokaro) 12, Ranchi Aero (dist Ranchi) 12, Garu (dist Latehar) 12, Saryu (dist Latehar) 11, Hendigir (dist Hazaribag) 11, Chakradharpur (dist West Singbhum) 11, Bariyatu (dist Latehar) 11, Putki (dist Dhanbad) 11, Icar Namkum (dist Ranchi) 10, Nawadih, (dist Bokaro) 10, Pathalgada (dist Chatra) 10, Barkisuriya (dist Giridih) 10, Khalari (dist Ranchi) 9, Mandar (dist Ranchi) 9, Tilaiya (dist Koderma) 9, Giridih Bengbad (dist Giridih) 9, Narayanpur (dist Jamtara) 9, Ramgarh (dist Ramgarh) 9, Phusro (dist Bokaro) 9, Chandwa (dist Latehar) 9, Ramgarh(bdo) (dist Ramgarh) 9, Bhurkunda (dist Ramgarh) 9, Dumri Dvc (dist Giridih) 9, Jamtara (dist Jamtara) 9, Tuladih (dist Giridih) 8, Jamtara Fmo (dist Jamtara) 8, Balumath (dist Latehar) 8, Sisai (dist Gumla) 8, Murhu (dist Khunti) 8, Parsabad (dist Koderma) 8, Tilaiya Dvc (dist Koderma) 8, Sindri Dvc (dist Dhanbad) 8, Maithon (dist Dhanbad) 7, Mandu (dist Ramgarh) 7, Maithon Dvc (dist Dhanbad) 7, Chandrapura (dist Bokaro) 7, Karmatand (dist Jamtara) 7, Koner Dvc (dist Hazaribag) 7, Gobindpur Dvc (dist Dhanbad) 7, Lohardaga (dist Lohardaga) 7, Panchet Dvc (dist Dhanbad) 7, Putki Dvc (dist Dhanbad) 7, Daltonganj (dist Palamu) 7, Sadar Chaibasa (dist West Singbhum) 7, Padma Dvc (dist Hazaribag) 7, Goilkera (dist West Singbhum) 7, Shilaichak (dist Chatra) 7, Palganj (dist Giridih) 7, Koderma Dvc (dist Koderma) 7,

- ❖ Chhattisgarh: Kusmi (dist Balrampur) 15, Ramchandrapur (dist Balrampur) 14, Samari (dist Balrampur) 12, Biharpur (dist Surajpur) 12, Ramanujganj (dist Balrampur) 11, Odagi (dist Surajpur) 9, Sonhat (dist Koriya) 9, Chando (dist Balrampur) 9, Pondi Bachra (dist Koriya) 8, Balrampur (dist Balrampur) 8, Rajpur (dist Balrampur) 7, Bhaiyathan (dist Surajpur) 7, Manora (dist Jashpur) 7, Pasaan (dist Korba) 7,
- ❖ East Madhya Pradesh: Churhat (dist Sidhi) 14, Panagar (dist Jabalpur) 12, Bilhari (dist Katni) 10, Jabalpur- (dist Jabalpur) 10, Bargi (dist Jabalpur) 10, Mada (dist Singrauli) 9, Bijadandi (dist Mandla) 7, Sarai (dist Singrauli) 7, Nowrozabad (dist Umaria) 7, Chitrangi (dist Singrauli) 7,
- ❖ Odisha: Bhandaripokhari (Bhadrak) 12, Bari (Jajpur) 12, Kantapada (Cuttack) 10, Akhuapada (Bhadrak) 10, Dhamnagar (Bhadrak) 10, Jajpur (Jajpur) 10, Jajpur Pto (Jajpur) 9, Biridi (Jagatsinghpur) 9, Tensa (Sundargarh) 9, Binjharpur (Jajpur) 9, Derabis (Kendrapara) 8, Bhadrak (Bhadrak) 8, Balikuda (Jagatsinghpur) 7, Nh5 Gobindpur (Balasore) 7, Betanati (Mayurbhanj) 7, Mahanga (Cuttack) 7,
- ❖ Gangetic West Bengal: Kharidwar (dist Purulia) 11, Kansabati Dam (dist Bankura) 9, Tusuma (dist Purulia) 8, Purulia (dist Purulia) 8, Phulberia (dist Purulia) 7,
- ❖ East Uttar Pradesh: Rihand Dam (dist Sonbhadra) 10, Dudhi (dist Sonbhadra) 9, Churk (dist Sonbhadra) 9, Robertsganj (dist Sonbhadra) 8,
- ❖ Bihar: Adhwara (dist Bhabua) 9, Rohtas (dist Rohtas) 9, Bhagwanpur (dist Bhabua) 7, Rajpur (dist Rohtas) 7.