

#### 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, ODISHA (FAX NO. 0674-2536660) CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029, 08645-246600) CHIEF SECRETARY, JHARKHAND (FAX NO. 0651-2400255) CHIEF SECRETARY, CHHATTISGARH (FAX NO. 0771-2221206) CHIEF SECRETARY, MADHYA PRADESH (FAX NO. 0755-2441076) CHIEF SECRETARY, MAHARASHTRA (FAX NO. 022-22028594) CHIEF SECRETARY, UTTAR PRADESH (FAX NO. 52222-39283) CHIEF SECRETARY, TELANGANA (FAX NO. 040-23453700)

#### Sub: Depression over North Chhattisgarh

The depression over North Chhattisgarh moved westwards with a speed of 22 kmph during past 6 hours and lay centered at 1130 hours IST of today, the 10<sup>th</sup> September, 2024 over the same region near latitude 21.9°N and longitude 82.1°E, about 20 km south-southwest of Bilaspur (Chhattisgarh), 90 km north-northeast of Raipur (Chhattisgarh), 100 km south-southeast of Pendra Road (Chhattisgarh), 140 km east of Malanjkhand (Madhya Pradesh) and 260 km east-southeast of Jabalpur (Madhya Pradesh).

It is very likely to move west-northwestwards across north Chhattisgarh and weaken into a well marked low pressure area over East Madhya Pradesh and adjoining Chhattisgarh around evening of today, the 10<sup>th</sup> September. However, there is a possibility of re-intensification of the system into a depression around evening of 11<sup>th</sup> September over central parts of North Madhya Pradesh and adjoining Uttar Pradesh.

Date/Time (IST)	Position (Lat. °N/ Long. °E)	Maximum Sustained Surface Wind Speed (Kmph)	Category Of Cyclonic Disturbance
10.09.24/1130	21.9/82.1	35-45 gusting to 55	Depression
10.09.24/1730	22.1/80.7	25-35 gusting to 45	Well Marked Low Pressure Area

Forecast track and intensity are given in the following table:

## Warnings:

## (i) Rainfall warning

**Chhattisgarh:** Light to moderate rainfall at most places is very likely with **heavy to very heavy** rainfall at a few places on 10<sup>th</sup> September.

**East Madhya Pradesh:** Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at a few places and **extremely heavy falls** at isolated places on 10<sup>th</sup> and **heavy to very heavy rainfall** at isolated places during 11<sup>th</sup> to 14<sup>th</sup> September.

West Madhya Pradesh: Light to moderate rainfall at many places is very likely with heavy to very heavy rainfall at isolated places on 10<sup>th</sup>; heavy to very heavy rainfall at a few places with extremely heavy rainfall at isolated places on 11<sup>th</sup>; heavy to very heavy rainfall at a few places during 12<sup>th</sup> to 14<sup>th</sup> September.

**Vidarbha:** Light to moderate rainfall at most places is likely with **heavy to very heavy rainfall** at a few places on 10<sup>th</sup> and 11<sup>th</sup> September.

**South Uttar Pradesh:** Light to moderate rainfall at many places is likely with **heavy rainfall** at isolated places on  $10^{th}$  and heavy to very heavy at isolated places during  $11^{th} - 13^{th}$  September.

**Odisha:** Light to moderate rainfall at many places is very likely with **heavy rainfall** at isolated places over northwest Odisha on 10<sup>th</sup> September.

### (ii) Wind warning

Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely over north Chhattisgarh till 10<sup>th</sup> September evening. It will decrease gradually thereafter.

### (iii) Flash Flood Guidance: (Graphics Attached)

## 24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 11-09-2024 :

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

**Chhattisgarh -** Baloda Bazar, Bastar, Bijapur, Bilaspur, Dantewara, Durg, Janjgir\_Champa, Jashpur, Korba, Mungeli, Narayanpur, Rajnandgaon, Sukma and Surguja districts.

**East Madhya Pradesh -** Anuppur, Balaghat, Chhindwara, Damoh, Dindori, Katni, Mandla, Narshimapura, Panna, Seoni, Shahdol and Umaria districts.

Vidarbha - Bhandara, Chandrapur, Gadchiroli, Gondiya and Nagpur 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.

# (iv) Impact Expected (Chhattisgarh, Madhya Pradesh, Vidarbha and South Uttar Pradesh due to heavy rainfall and squally wind)

- ✓ 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 leading to increased travel time.
- ✓ 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)

### (v) Action Suggested (Chhattisgarh, Madhya Pradesh, Vidarbha and South Uttar Pradesh)

- ✓ Judicious regulation of surface transports including railways and roadways.
- ✓ Check for traffic congestion on your route before leaving for your destination.
- $\checkmark$  Follow any traffic advisories that are issued in this regard.
- ✓ Avoid going to areas that face the water logging problems often.
- $\checkmark$  Avoid staying in vulnerable structure.

#### (vi) Agromet advisories for Heavy Rainfall likely over various parts of the country

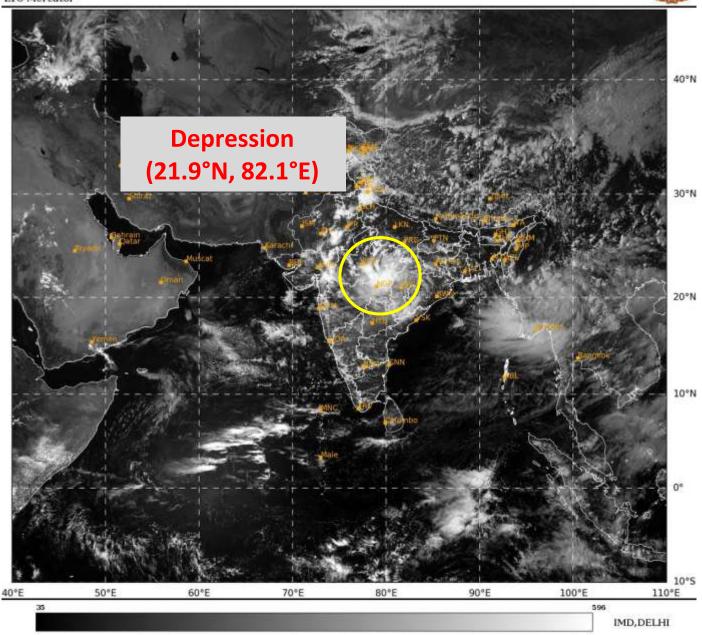
- ✓ Provide mechanical support to horticultural crops & staking to vegetables.
- ✓ Keep the harvested produce at safer place.

Rainfall recorded during 0830 hrs IST of 9<sup>th</sup> September to 0830 hours IST of 10<sup>th</sup> September (in cm) is placed in Annexure-1

The next bulletin will be issued at 2030 hrs IST of 10<sup>th</sup> September, 2024.

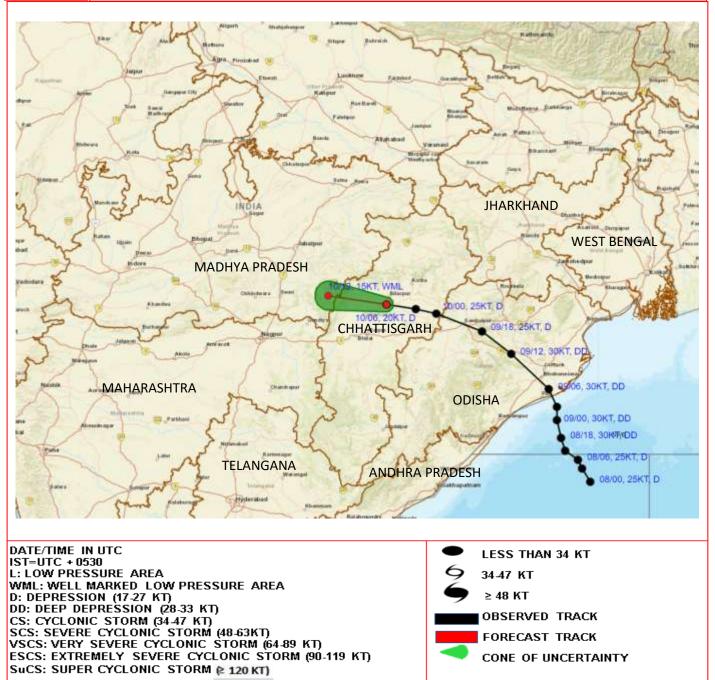
(Ananda Kumar Das) Scientist- F, RSMC, New Delhi

Copy to: CRS, Pune/ACWC Kolkata/ACWC Chennai/CWC Bhubaneswar/CWC Visakhapatnam/ /MC Raipur/MC Ranchi/MC Hyderabad/MC Amaravati/MC Lucknow/MC Bhopal SAT : INSAT-3DR IMG Visible Count 0.65 um L1C Mercator 10-09-2024/(0845 to 0912) GMT 10-09-2024/(1415 to 1442) IST

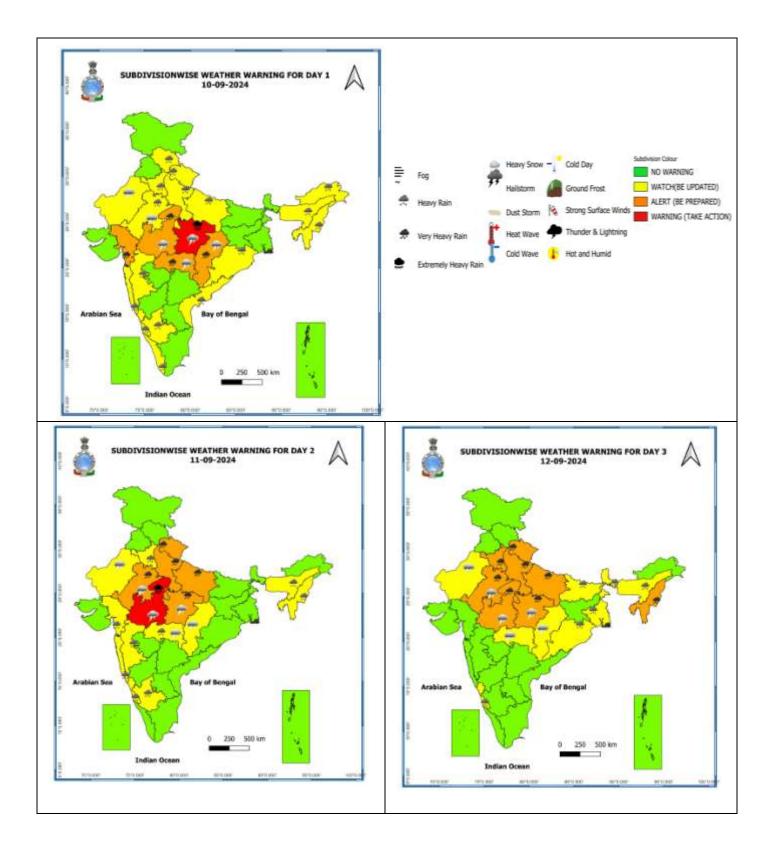


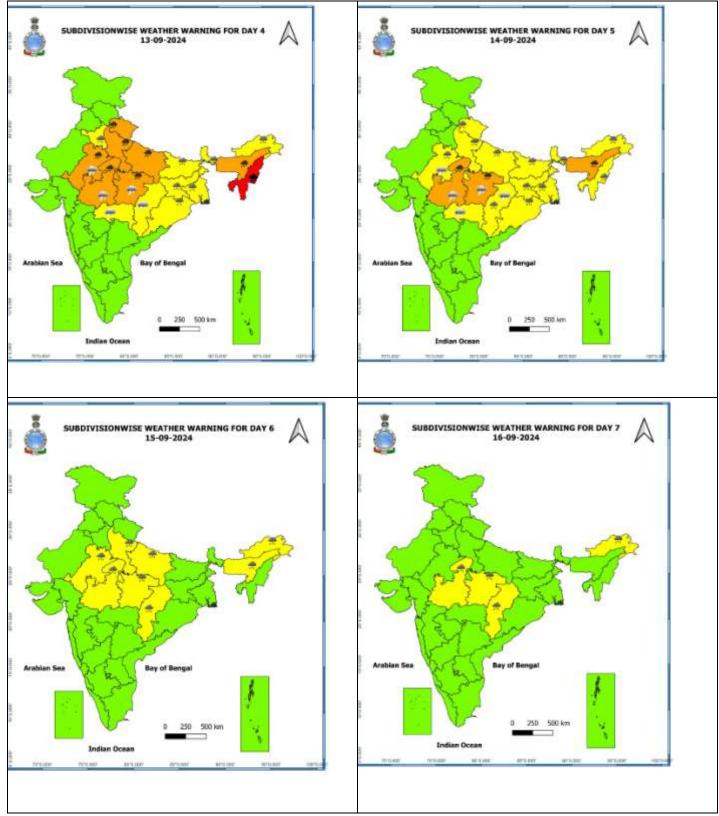


OBSERVED AND FORECAST TRACK OFDEPRESSION OVER NORTHCHHATTISGARHBASED ON 0600 UTC (1130 IST) OF 10<sup>th</sup>SEPTEMBER, 2024.



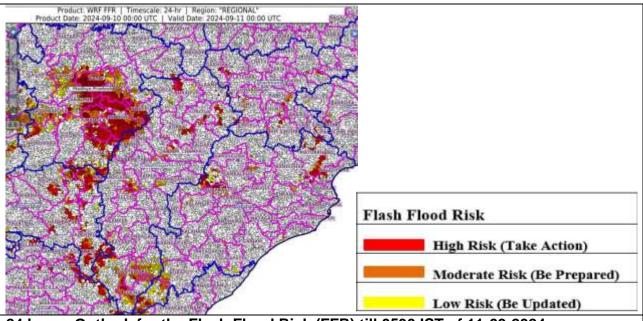
# **Warning Graphics**





- 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 11-09-2024 :

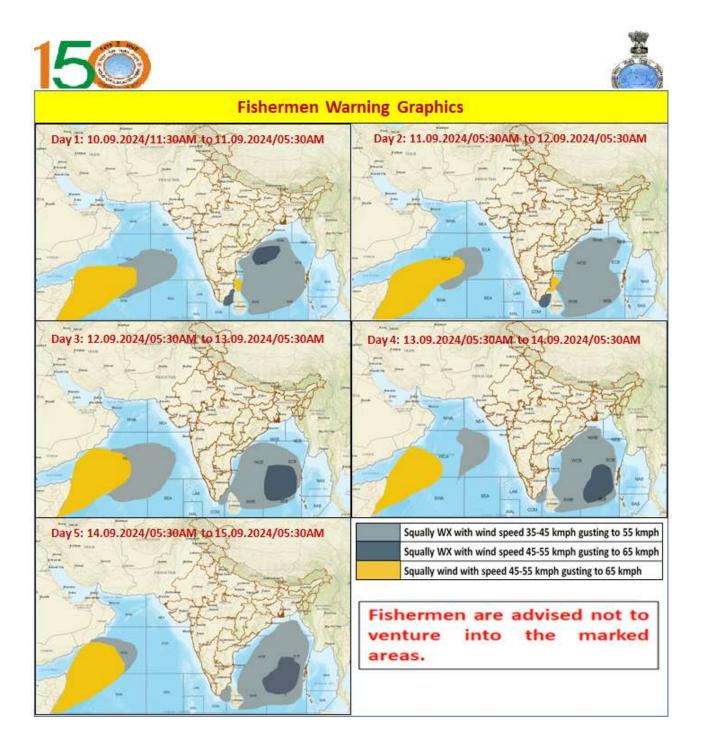
Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours

**Chhattisgarh -** Baloda Bazar, Bastar, Bijapur, Bilaspur, Dantewara, Durg, Janjgir\_Champa, Jashpur, Korba, Mungeli, Narayanpur, Rajnandgaon, Sukma and Surguja districts.

**East Madhya Pradesh -** Anuppur, Balaghat, Chhindwara, Damoh, Dindori, Katni, Mandla, Narshimapura, Panna, Seoni, Shahdol and Umaria districts.

Vidarbha - Bhandara, Chandrapur, Gadchiroli, Gondiya and Nagpur 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.



# Significant rainfall recorded from 0830 hrs IST of 9th September to 0830 hrs IST of today, the10th September, 2024 (cm):

- Vidarbha: Gondia Ap (Gondia) 29, Deori (Gondia) 21, Gondia (Gondia) 21, Salekasa (Gondia) 20, Sadakarjuni (Gondia) 19, Goregaon (Gondia) 18, Korchi (Gadchiroli) 15, Arjuni Morgaon (Gondia) 14, Amgaon (Gondia) 14, Lakhandur (Bhandara) 13, Desaiganj (Gadchiroli) 13, Sakoli (Bhandara) 12, Kuhi (Nagpur) 10, Sindewahi (Chandrapur) 10, Lakhani (Bhandara) 9, Mulchera (Gadchiroli) 9, Gadchiroli (Gadchiroli) 9, Bramhapuri (Chandrapur) 9, Dhanora (Gadchiroli) 9, Chamorshi (Gadchiroli) 8, Saoli (Chandrapur) 8, Bhamragad (Gadchiroli) 8, Kurkheda (Gadchiroli) 7, Pauni (Bhandara) 7, Nagbhir (Chandrapur) 7, Etapalli (Gadchiroli) 7,
- Chhattisgarh: Lal Bahadur Nagar (Rajnandgaon) 24, Sukma (Sukma) 19, Dongargarh (Rajnandgaon) 19, Gurur (Balod) 19, Rajnandgaon (Rajnandgaon) 18, Bhanupratappur (Kanker) 18, Khairagarh (Khairagarh Chh Gandai) 17, Balod (Balod) 16, Durgkondal (Kanker) 16, Baloda Bazar (Baloda Bazar) 16, Mohla (Mohala Manpur Chowki) 15, Lawan (Baloda Bazar) 15, Chhuria (Rajnandgaon) 15, Dhanora (Kondagaon) 15, Dongargaon (Rajnandgaon) 15, Bhatapara (Baloda Bazar) 15, Marri Bangla Deori (Balod) 15, Pallari/palari (Baloda Bazar) 14, Charama (Kanker) 14, Pithora (Mahasamund) 14, Dhamtari (Dhamtari) 14, Keshkal (Kondagaon) 14, Gangalur (Bijapur) 14, Doundi (Balod) 14, Pakhanjur (Kanker) 14, Khadgaon (Mohala Manpur Chowki) 14, Nerharpur (Kanker) 13, Suhela (Baloda Bazar) 13, Kukrel (Dhamtari) 13, Sonakhan (Baloda Bazar) 13, Antagarh (Kanker) 13, Manpur (Mohala Manpur Chowki) 12, Labhandih (Raipur) 12, Arjunda (Balod) 12, Darbha (Bastar) 12, Kanker (Kanker) 12, Kashdol (Baloda Bazar) 12, Raipur (Raipur) 12, Bhakhara (Dhamtari) 12, Komakhan (Mahasamund) 12,
- Odisha: Lanjigarh ( Kalahandi) 23, Madanpur Rampur ( Kalahandi) 22, Tikarpara ( Angul) 15, Ambadola ( Rayagada) 14, Nawapara ( Nawapara) 13, Kotpad ( Koraput) 11, Belgaon ( Bolangir) 11, Birmaharajpur ( Sonepur) 11, Malkangiri ( Malkangiri) 10, Bissem-cuttack ( Rayagada) 10, Athmalik ( Angul) 10, Barmul ( Nayagarh) 9, Lamataput ( Koraput) 9, Kosagumda (Nawarangpur) 8, Harabhanga ( Boudhgarh) 8, Mathili ( Malkangiri) 7, Nawarangpur (Nawarangpur) 7, Padia ( Malkangiri) 7, Gaisilet ( Bargarh) 7, Nawarangpur Pto ( Nawarangpur) 7, Tarva ( Sonepur) 7, Sonepur ( Sonepur) 7, Nandahandi ( Nawarangpur) 7, Jeypore ( Koraput) 7, Dabugan ( Nawarangpur) 7, Narla ( Kalahandi) 7, Borigumma ( Koraput) 7, Rairakhol (Sambalpur) 7,
- East Madhya Pradesh: Kirnapur (Balaghat) 20, Matiyari (Mandla) 13, Baihar (Balaghat) 13, Lanji (Balaghat) 12, Lalburra (Balaghat) 10, Bichhia (Mandla) 9, Dhanora (Seoni) 7, Paraswada (Balaghat) 7, Harrai (Chindwara) 7;East Madhya Pradesh:Kirnapur (Balaghat) 20, Matiyari (Mandla) 13, Baihar (Balaghat) 13, Lanji (Balaghat) 12, Lalburra (Balaghat) 10, Bichhia (Mandla) 9, Dhanora (Seoni) 7, Paraswada (Balaghat) 7, Harrai (Chindwara) 7;
- West Madhya Pradesh: Raoti (Ratlam) 10, Satwas (Dewas) 9, Gogawan (Khargone) 9, Nasrullahganj (Sehore) 7, Petlawad (Jhabua) 7;