



Situation Report 13

Flood, Heavy Rainfall and Lightning in India

08 August, 2021
14:00



SITUATION UPDATE AND RESPONSE

Preparedness and response

Due to heavy rainfall, lightning and floods in India, 8 states - Karnataka, Kerala, Madhya Pradesh, Bihar, Rajasthan, Uttar Pradesh and West Bengal are affected with damages and loss of lives. Reported Deaths due to Lightning on 07 August are 26 (Bihar-7, Jharkhand-8, Odisha-7 & West Bengal-4)
Source: MHA/ Media

States affected by Flood and Heavy Rainfall



Situation Updates

(Data of last 24 hours)



States affected - 07



Population affected - 57,695



Human lives lost
Heavy Rains & Floods - 07
Lightning - 26



Injured - NA



Houses damaged - 70



Loss of livestock - NA



Persons evacuated - 2170



Relief Camps - 191



Crop area affected - NA

Forecast and Warning

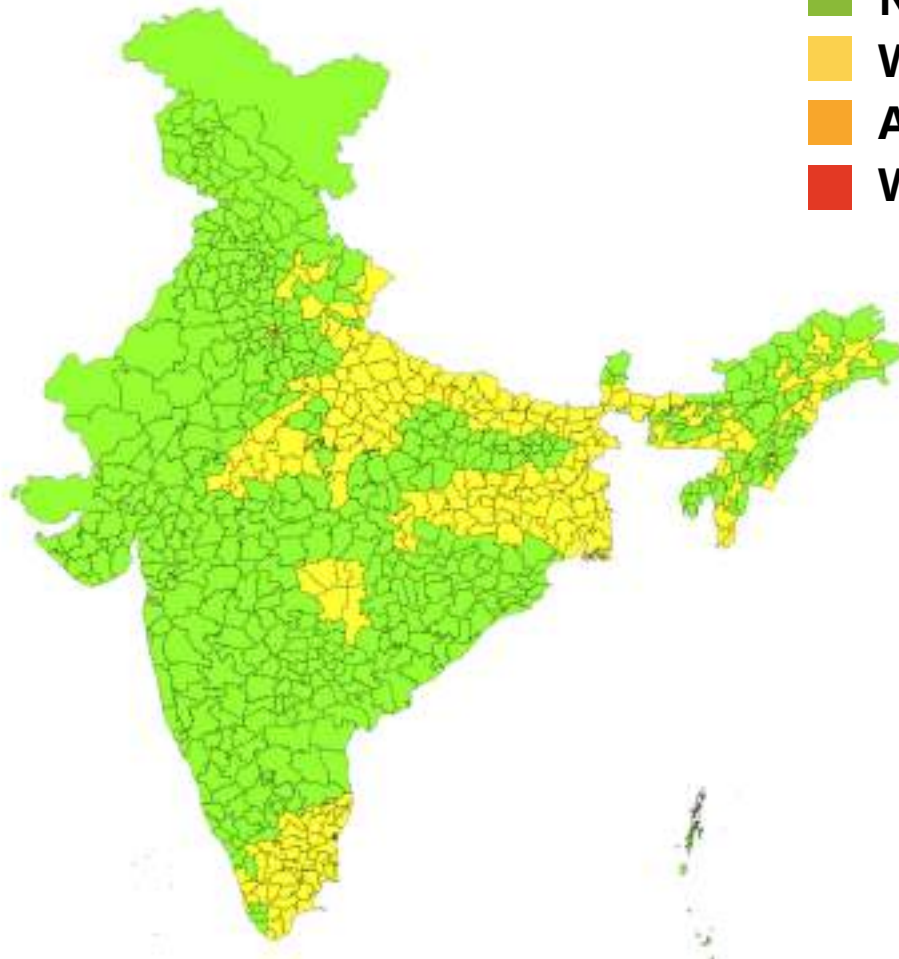
IMD and CWC Forecast

Rainfall and thunderstorm forecast

- Heavy to Very Heavy Rainfall at isolated places over Assam and Meghalaya.
- Heavy Rainfall at isolated places over Uttarakhand, Uttar Pradesh East Rajasthan, West Madhya Pradesh, Bihar, Sub Himalayan West Bengal and Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram and Tripura, Coastal and South Interior Karnataka, Tamil Nadu, Puducherry and Karaikal and Kerala and Mahe
- Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Jharkhand, West Bengal and Sikkim, Odisha, Arunachal Pradesh, Assam and Meghalaya, Nagaland, Manipr, Mizoram and Tripura.

Source: IMD, 08 August, 2021 (<https://mausam.imd.gov.in/>)

District-wise Rainfall forecast for 9th August, 2021



- No warning**
- Watch**
- Alert**
- Warning**

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Forecast and Warning



IMD and CWC Forecast

CWC Flood Situation Summary

On 4th August, 2021, 2 Stations (1 each in Madhya Pradesh and Rajasthan) are flowing in Extreme Flood Situation, 17 Stations (10 in Bihar, 4 in Uttar Pradesh and 3 in Rajasthan) are flowing in Severe Flood Situation and 29 stations (15 in Bihar, 5 in Uttar Pradesh, 4 in Assam and 1 each in Jharkhand, Karnataka, Kerala, Rajasthan & West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 32 Barrages & Dams (13 in Karnataka, 5 in Jharkhand, 4 in Andhra Pradesh, 3 in Uttar Pradesh, 2 in Tamil Nadu and 1 each in Madhya Pradesh, Maharashtra, Odisha, Telangana & West Bengal).

CWC Flood Advisories

Yamuna and its Tributaries - West Madhya Pradesh, East Rajasthan & Uttar Pradesh

- As per IMD forecast, yesterday's Low Pressure Area now lies over Northern parts of East Madhya Pradesh (M.P.) and neighbourhood. IMD has predicted heavy rainfall in north-west M.P. for next 24 hrs. Hence, alert may be kept in the tributaries of Yamuna mainly Chambal, Betwa, Kalisindh and Parwati, mainly in districts such as Ashoknagar, Guna, Shivpuri of M.P and Kota, Jhalawar, Swai Madhopur & Baran of Rajasthan. Due to persisting rainfall and releases from Kalisindh dam, Kota district on Kalisindh river is flowing above normal flood situation and Parwati river is flowing in severe flood situation with falling trend. Chambal in Dholpur, Swai Madhopur & Karauli districts are flowing in severe flood situations with falling trend. Water levels in Chambal and neighbouring tributaries of Yamuna is expected to fluctuate for next 1 or 2 days since the response of basins to rain events will be very high due to increased soil moisture. Such fluctuations will decrease subsequently with ceasing of rainfall over the area. Flood wave that travelled from Chambal and other southern tributaries of Yamuna originating in east Rajasthan and West M.P., is currently travelling through main Yamuna steam. Currently regions in main Ganga after Yamuna confluence are also in above normal to severe flood situations. Main Yamuna is flowing in above normal to severe flood situations in districts Etawah, Auraiya, Jalaun, Hamirpur, Banda & Prayagraj (U.P). Alert may be kept in downstream districts of U.P. on river Ganga after confluence with river Yamuna such as Prayagraj, Mirzapur, Varanasi, Ghazipur and Ballia during the next 3 to 4 days. Kalisindh, Panchana and Ranapratap Sagar dams of Rajasthan are having high storages; hence releases from these dams may be done as per SOP by informing downstream Districts of lower riparian states. Rajghat dam (Ashok Nagar dt. of M.P.) and Matatila dam (Lalitpur of U.P.) on Betwa river are getting high inflows, and there are high releases from Rajghat dam (>8000 cumec).

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Forecast and Warning



IMD and CWC Forecast

CCWC Flood Advisories

Ganga basin- Uttar Pradesh, Bihar, Jharkhand & West Bengal

- Due to combined effect of river runoff from Yamuna and northern tributaries of Ganga, main Ganga is flowing in above normal to severe flood situations in districts Varanasi, Ghazipur (U.P), Buxar, Patna, Munger, Bhagalpur (Bihar), Sahibganj (Jharkhand) & Murshirabad (West Bengal). River Ghaghra in Barabanki, Ayodhya & Ballia (Uttar Pradesh), Siwan (Bihar) Districts and River Ganga in Hapur, Badaun, Farrukhabad, Kanpur Nagar & Ballia (Uttar Pradesh) districts are also flowing in Severe to Above Normal Flood Situation. Currently River Kosi in Khagaria, Supaul & Katihar districts, River Bagmati in Muzzafarpur district, River Gandak in Gopalganj & Muzaffarpur districts, River Adhwara in Darbhanga District, Rivers Kamla & Kamlabalan in Madhubani district, River Burhi Gandak in Khagaria district, River Parman in Araria district and River Ghaghra in Siwan district (Bihar) are flowing in severe to above normal flood situations. Inflow from Yamuna and its tributaries will further increase the water level of main Ganga stem in Bihar for next 3 to 4 days.

Godavari and Krishna basin- Maharashtra, Telangana, Andhra Pradesh & Karnataka

- **Godavari basin:** Sriramsagar, Karanja, Sri PadaYellampally, Yeldari, Kaddam are having high storages. Releases are to be done as per SOP by informing downstream districts of lower riparian states.
- **Krishna Basin:** Major dams such as Almatti, Narayanpur, Tungabhadra, P.D. Jurala, Sunkesula barrage, Srisailam, Koyna, Warana, Veer & Musi projects having high storages, hence, releases from these dams may be done as per SOP by informing downstream Districts of lower riparian states. Flood alert has already been issued in Andhra's Krishna district after gate of Pulichintala dam washes away. A high alert has been sounded in the villages in Guntur and the Krishna district along the course of the river.

Cauvery basin - Karnataka, Tamil Nadu

- Inflows into Harangi, Hemavathi, Kabini and KRS dams are having steady trend. Close watch is to be maintained as the storages are high in most of the major projects. Necessary precautions may be taken for releases from dam after informing all downstream areas in Karnataka and lower riparian States. Releases from Kabini dam are being realised at Mettur dam of Salem and Dharmapuri district (Tamil Nadu).

Rivers of West Bengal

- IMD has predicted heavy rainfall over West Bengal hence alert may be kept in districts Pashchim & Purba Bardhaman, North & South 24 Parganas, Howrah, Pashchim & East Medinipur as the flow in rivers Damodar, Mundeshwari, Dwarkeshwari, Rupnarayan and Ghatal is already high.

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Forecast and Warning



IMD and CWC Forecast

CCWC Flood Advisories

Brahmaputra and its tributaries - Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura

- IMD has predicted heavy rains in the catchment of Brahmaputra and its tributaries and Barak & others in states Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, hence alert may be kept. Currently river Jia Bharali at Sonitpur district and river Beki at Barpeta districts are flowing above normal flood situations.

West Flowing rivers from Tadri to Kanyakumari - Kerala

- Currently above normal flood situations exist in river Thodupuzha in Idukki District. Also watch may be kept in Periyar river. IMD has predicted heavy rainfall over Kerala for next two days. Major dams (under KSEB) out of 17, 12 are having storages more than 60% and above.

Flash Flood Guidance

IMD has issued flash flood risk over few watersheds and neighbourhood of West Madhya Pradesh and East Rajasthan met subdivisions.

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Humanitarian Response



Government Preparedness and Response

Situation Overview

Madhya Pradesh Flood situation:

Large excess rainfall in the sub-basins of Yamuna namely Chambal, Sind, Betwa, Parbati, etc has led to flooding in districts such as Rewa, Satna, Panna, Datia, Sheore, Shivpuri, Guna, Gwalior, Bhind, Morena in Madhya Pradesh on 03/082021 onwards. As per local media 25 thousand houses destroyed due to flood in the state.

- Total 1305 Villages have been affected in eight districts namely Shivpuri, Guna, Morena, Bhind, Datia, Ashoknagar, Sheopur and Gwalior.
- Till now, approx. 30790 persons have been safely evacuated so far.
- 08 teams of NDRF have been deployed in flood affected areas for rescue and relief operation. Till now 342 people and 06 livestock have been rescued by NDRF so far.
- Six columns of Indian Army including engineers, signals and medical personnel are deployed in affected areas for relief & rescue works. Till now 354 people have been rescued and distributed 700 food packets.
- Indian Air Force deployed 06 helicopters in affected areas. Total 62 sorties have been carried out, 163 people rescued, and distributed 2260 kg food packets.
- 29 teams of SDRF have been deployed in flood affected areas for rescue and relief operation.
- Restoration work of Telecommunication lines and damaged Railway tracks are in progress.



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Humanitarian Response



Government Preparedness and Response

Situation Overview

Madhya Pradesh Flood situation:

- The government reported death of 24 persons from 1st Aug to 08th Aug due to flood situation.
- Public Works Department (PWD) minister Gopal Bhargava formed a committee of engineers to probe into the destruction of at least six bridges in the deluge and ascertain whether faulty design or low quality works were responsible for the damage.
- According to the government's preliminary statistics, 55,199 people from over 1,200 villages have been impacted by floods in rivers Parvati, Chambal, Sindh, Kuno and Kuwari. Around 31,000 people have so far been rescued, with over 16,000 being accommodated in 126 relief camps.
- As an immediate relief the government decided to provide 50 kg food grain to each flood-hit family. They would also be compensated at the rate of Rs 25,000 each for damaged tube-well/well, while Rs 30,000 each will be provided for loss of cattle. Loss of goats and poultry, too, would be compensated.



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Situation Overview

Rajasthan Flood Situation:- Total 35 persons stranded on the top of a school building in village - Hindi, Tehsil - Sangod, district - Kota have been rescued jointly by Indian Air Force, Army, NDRF, SDRF, and local administration.

- 02 deaths and damages to houses are reported by the local administration during the last 24 hrs.
- Lok Sabha Speaker Om Birla on Saturday took an aerial survey of flood-hit areas here even as the Army was roped in to lead rescue operations after several people were trapped inside their houses due to the deluge.
- At least 140 people were rescued at various places in the Sangod area of the district and evacuated to safer places till 11 am on Saturday
- At least 140 people, including around 30 girls and staff of a girls residential school in Hingi village were rescued by Saturday late morning.
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Bihar Flood Situation:- In Bihar, the effect of floods is visible in many rivers including Ganga, Gandak. Ganga water has reached the danger mark in Danapur near Patna. The water of the river started flowing on the Ganga path between Bhadra Ghat and Mahavir Ghat in Patna City on Saturday. People have already started migrating due to the floods of Ganga in Diara area of Patna. In Patna district, more concern than Ganga is being caused by the Punpun river. In many areas, the water of Punpun is flowing like a ring dam. Here, due to the rain since late Friday night, the hill rivers of West Champaran have been flooded. Gandak erosion continues. Paddy and sugarcane crops spread over hundreds of acres of land have merged with Gandak in Diaravarti areas of Semra Labedaha Panchayat of Piprasi block. The water level of Ganga has reached 46.66 cm in Mohanpur of Samastipur district. Which is one meter 16 cm above the danger mark. Water has started spreading to new areas.

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Situation Overview

Uttar Pradesh Flood Situation:- In Prayagraj, the water levels of the Ganga and Yamuna, is fast approaching the danger mark (84.73 metres) and the flood situation is getting grim in the low-lying rural areas. The water level of Ganga, as recorded on Saturday evening, in Phaphamau was 84.03 metres, and in Chhatnag it was 83.30 metres. Likewise, the water level of Yamuna, as recorded at the same time, in Naini was 83.88 metres. The two rivers have continued to increase at all three points at a pace of around 10-11 cm (since the last four hours). As per the irrigation department, it may touch the danger mark by Sunday evening. Flood waters have entered into several localities such as Ganga Nagar, Nevada, Ashok Nagar, Beli Gaon, parts of Rajapur, Salori, Bada and Chota Baghara, Badra, Sanauti, Daraganj and Nagvasuki. With the continuous rise in level of Yamuna, flood water has reached Baradari along the banks of the river at Baluaghat. Similarly in Varanasi, the water level of Ganga has also risen sharply and thus approaching towards the danger mark after crossing the warning level. A more alarming situation was on the banks of its tributary river Varuna as swollen Ganga flooded it and people dwelling in dozens of localities of Varuna banks were forced to shift to safer places. According to the flood bulletin of Central Water Commission's Middle Ganga Division office, the water level of Ganga had already crossed the warning level of 70.26 metres in Varanasi on Saturday. Threat of further rise in water level and crossing the danger mark continued as the river has been maintaining the rising trend in upstream from Phaphamau, Prayagraj and Mirzapur, where it was flowing near warning level of 76.72 metres. At the Ganga upstream in Varanasi, the increasing water level has started causing panic among the people living in low lying areas. As several localities are flooded, flood relief camps are being set up by the administration to provide adequate facilities to the affected people. Meanwhile, the administration and NDRF are helping locals as well as keeping a strict vigil on the water level.

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Humanitarian Response



Government Preparedness and Response

Situation Overview

West Bengal Flood Situation:- As of 07 August, 23 people have died and nearly 3,00,000 displaced by floods across 7 districts in the state.

- Teams from the Indian Air Force were called on to rescue dozens of people who had taken refuge on rooftops in flooded areas of Paschim Medinipur and Hooghly districts. Meanwhile the Army used boats to rescue people marooned in Dhanyaghari in Hooghly. Fourteen teams from India's National Disaster Response Force have also been deployed to affected areas.
- West Bengal Chief Minister Mamata Banerjee conducted survey of flood-affected areas via road due to bad weather.
- Adequate measures have been taken and we have ensured that there is ample supply of drinking water, dry food packets and medicines.
- More than 4 lakh hectares of agricultural land in these seven districts is under water now.



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Humanitarian Response

NGO Preparedness and Response

Maharashtra

- 4th August onwards (Please refer SitRep no. 10, 11 & 12 for info before 4th August)
- Helping Hands Foundation has conducted 5 medical camps in the areas near and interiors of Chiplun with the support from Doctors of Walalwalkar Hospital. Now These Doctors and HHF Volunteers are going door to door to provide health services to 400 people per day.
- Alert Citizen Forum has launched "Plastic Bottle Free Chiplun Campaign" in collaboration with Chiplun Municipality and Aakar Mumbai. More than 100 rag picker women have come to Chiplun from Mumbai for the next one week by collecting 6/7 tons of plastic waste bottles from public areas. In addition, 120 players from 5 Dahihandi squads will take part in the clean-up operation next week.
- CYDA with the support of UNICEF Maharashtra distributed WASH Materials in four Relief Camps in Patan. Items distributed include 10 Sanitizer stands, 20 dust bins, 8 Water purifiers, 500 Sanitary Pads and 300 light lamps in the four relief camps of the Patan block.
- CYDA with the support of Persistent Foundation distributed 500 dry food kit along with non-food item like as blankets, bed sheets etc in Mahabaleshwar block of Satara district. This kits were distributed in 12 villages of Mahabaleshwar Block. District administration has arranged the special boats for transportation of the goods.
- With the support of Rise Infinity Foundation CYDA team distributed 152 kits (Dry ration, Nonfood items, Cloths in 4 villages in Mirajgaon Block, Sangali Districts.
- Total 20 volunteers have been engaged in relief camp for supporting flood affected people in Satara districts.
- Garrimaa Foundation Universal have made different kits and sending to remote flood stricken places. Kit 1 - Utility Kit, Kit 2 - Stationary, Kit 3- Electrical, Kit 4- Cleaning.
- The Bombay Catholic Sabha in partnership with RISE Infinity Foundation and the Maha PECOnet organised a collection drive across the Churches in Mumbai. 2 truck loads of materials as per requirements shared from the ground are dispatched with support from CYDA.
- Alert Citizen Forum over 5 days in Chiplun covered 14 villages providing 4379 food kits, 2790 utility kits, 1427 water barrels and handpump dispensers, 1427 clothes (gowns, innerware), 4200 sanitary pads and 450kgs of bananas. Total 63 volunteers on the ground
- Vikas Sahyog Pratishthan Mumbai Started Food and Health Kit to needy JLG and SHG members in Chiplun through the support by NSEF.
- Helping Hands Charitable Trust has sent a truck with 600 ration kits worth Rs. 5 lacs to Chiplun villages for flood relief. Ground partners for distribution will be Yusuf Meherally Centre



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Humanitarian Response

NGO Preparedness and Response



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Humanitarian Response



NGO Preparedness and Response

Madhya Pradesh

- Madhya Pradesh IAG is closely watching the situation and planning to call emergency meeting on Tuesday.
- Mahatma Gandhi Seva Ashram has started EMERGENCY RELIEF COLLECTION DRIVE in Bhopal for the collection of essentials items - dry ration, clothes and footwear for kids and adults, sanitary pads, first aid kits, packed water, storage containers, tarpaulin, blankets and beddings, toiletries and more for distributing in Sheopur flood affected areas.

West Bengal

- West Bengal IAG is closely watching the situation and deployed its three members as Howrah district IAG Flood Management Core team - Kalikata Bidhan Manab Bikash Samity, Bhateghori janakalyan samity and Itarai Asha Deep.
- NDRF is distributing 1000 Dignity Kits for Women at Udaynarayanpur and Amta under Howrah District.
- IAG members are assessing the situation and identifying the urgent needs of community in Howrah district.

Bihar

- Bihar IAG Members are closely working with District Administrations of most three flood districts for ensuring joint actions and better response.
- For ensuring the vaccine continuity in flood affected areas, Care India has started the 'Vaccine on Boat' campaign in Katra block, so far it benefitted 2000 plus people who were cut-off due to flood.
- As there was huge damage in WASH infrastructure, and contamination in water sources and unhygienic situation occurred in public places, hence Samajik Sodh Avm Vikas Kendra has started the drive to clean and bleach the public places and chlorination of water sources in East Champaran district.
- CASA has started Community Kitchen for 500 plus people in Chutiyahi of Nirmali block in Supaul district, these families have been relocated due to breach in Embankment for one week.

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Humanitarian Response

Glimpse from West Bengal



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Humanitarian Response

Glimpse from West Bengal



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Humanitarian Response

Glimpse from West Bengal



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Humanitarian Response

Glimpse from West Bengal



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Humanitarian Response



Source of Information:

- IMD, CWC, MHA, IAGs, CMO Madhya Pradesh, Indian Army, NDRF
- NDTV, Indian Express, News 18



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