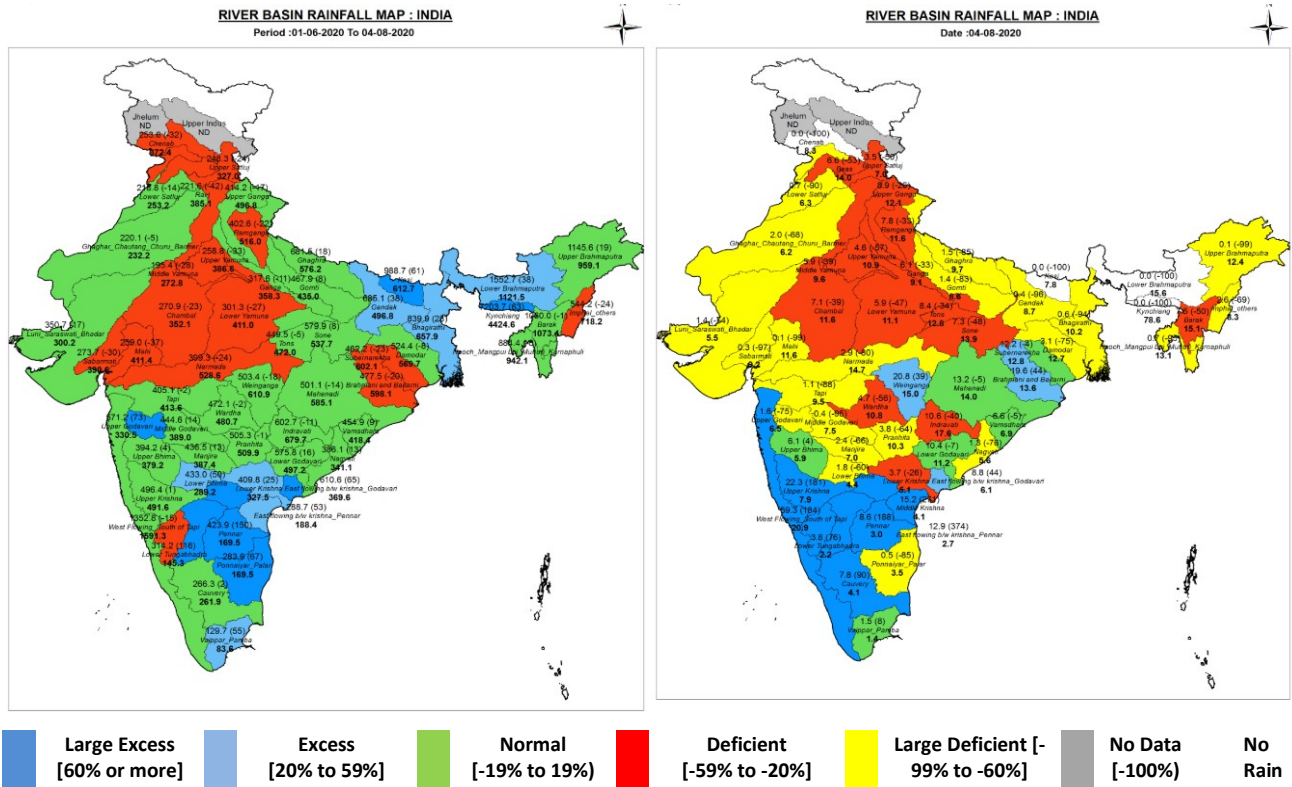




**Central Water Commission**  
**Daily Flood Situation Report cum Advisories**  
**04-08-2020**

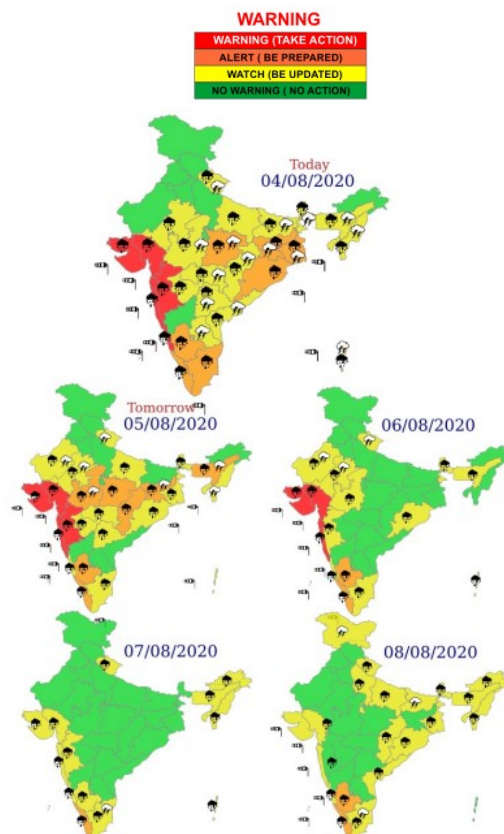
**1.0 IMD information**

**1.1 Basin wise departure from normal of cumulative and daily rainfall**



Notes: a) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm)  
 b) Percentage departures of rainfall are shown in brackets.

**1.2 Rainfall forecast for next 5 days issued on 4<sup>th</sup> August 2020 (Midday) by IMD**



## 2.0 CWC inferences

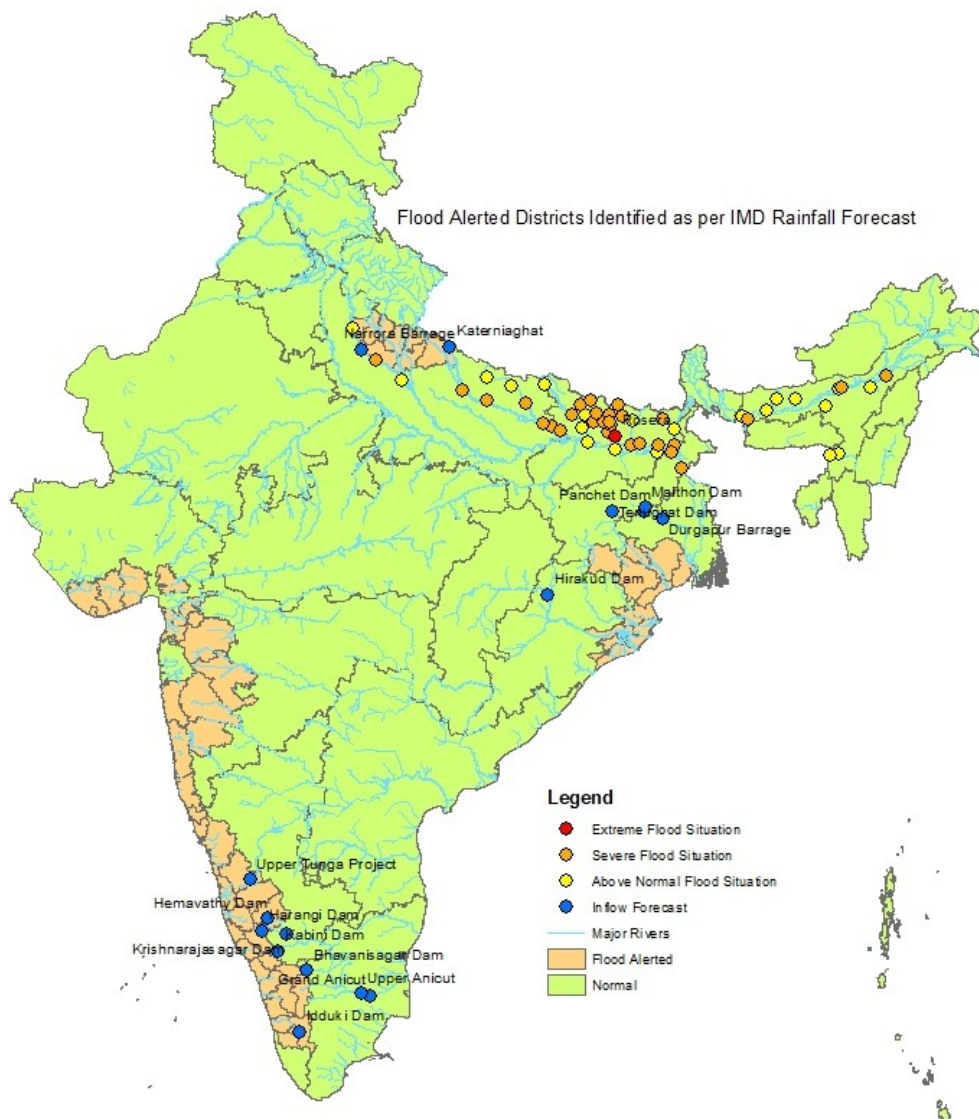
### 2.1 Flood Situation on 4<sup>th</sup> August 2020

On 4<sup>th</sup> August 2020, 1 Station in Bihar is flowing in Extreme Flood Situation. 29 Stations (19 in Bihar, 5 in Uttar Pradesh, 3 in Assam, and 1 each in Jharkhand and West Bengal) are flowing in Severe Flood Situation and 23 stations (9 in Assam, 7 in Bihar, 5 in Uttar Pradesh and 1 each in Kerala and Karnataka) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 17 Barrages and Dams (6 in Karnataka, 3 in Jharkhand, 3 in Tamil Nadu, 2 in Uttar Pradesh and 1 each in Odisha, Kerala and West Bengal).

FLOOD SITUATION SUMMARY		
PART - I: LEVEL FORECAST		
S.No.	Flood Situations	Numbers of Forecasting Sites
<b>A</b>	Extreme Flood Situation: (Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalled)	<b>1</b>
<b>B</b>	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	<b>29</b>
<b>C</b>	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	<b>23</b>
Total number of sites above Warning Level ( A+B+C)		<b>53</b>
PART - II: INFLOW FORECAST		
Number of sites for which inflow forecasts issued: (Where Inflows are equal or exceed the specified Threshold Limit for a particular reservoir / barrage)		<b>17</b>

Details can be seen in link :- <http://cwc.gov.in/sites/default/files/dfb202004082020r.pdf>

#### 2.1.1 Summary of Flood Situation as per CWC Flood Forecasting Network



## 2.2 CWC Advisories

- **Monsoon currently is in active to vigorous phase over Konkan coast and adjoining area of west coasts, eastern parts of India covering Odisha and West Bengal.**
- Under the above favorable scenario, Widespread rainfall with scattered heavy to very heavy falls and isolated extremely heavy falls most likely to continue over Konkan & Goa (including Mumbai) till 6<sup>th</sup> August and over Madhya Maharashtra (Ghat areas) till 5<sup>th</sup> August 2020 and reduce thereafter.
- Widespread rainfall with isolated very heavy to extremely heavy falls also very likely over Gujarat state during 4<sup>th</sup> to 6<sup>th</sup> August; over Odisha on 4<sup>th</sup> August and over Chhattisgarh and East Madhya Pradesh on 5<sup>th</sup> August 2020. Isolated very heavy to extremely heavy rainfall also likely over Tamilnadu, Kerala and South Interior & Coastal Karnataka during next 4-5 days.

Based on the above rainfall forecast the following advisories are issued by CWC for various States:

### 2.2.1 Ghat Area along West Coast

#### **Maharashtra, Goa & South Gujarat including Daman and Dadra Nagar Haveli**

Due to ongoing heavy rainfall in the Coastal Districts of Maharashtra, most of the west flowing rivers such as Kajvi and Bav in Ratnagiri District, Kal in Raigad District and Gad in Sindhudurg District are rising rapidly. Due to forecasted very heavy to extreme rainfall in Thane, Raigad, Pune, Nasik, Ratnagiri, Sindhudurg and Palghar districts, many of the West Flowing Rivers between Tapi and Tadri including Damanganga are expected to rise rapidly during the next 3-4 days and hence strict watch has to be maintained. **Precautions have to be taken in small dams where there are chances of spilling due to this rainfall.**

**Due to heavy rainfall in Mumbai and its suburban areas, there is likelihood of urban flooding due to drainage congestion and water logging. Railway/ Road movement over the bridges in the district should be regulated as there is likely to be water logging near rail track and over road bridges. All precautions have to be taken for the next 72 hours in view of the rainfall warnings given.**

Due to heavy to extremely heavy rainfall warning given in Madhya Maharashtra, there is chance of rise in Water levels in the Source regions of Godavari, Krishna and their tributaries and strict watch is to be maintained. Due to very heavy rainfall in Ghat areas of Satara District, River Krishna at Karad has started rising slowly. Most of the reservoirs in these basins are having storage between 10% to 50%. While some of the small dams are having around 70%. Due to forecasted rainfall for next 4 - 5 days, there is chance of rise in inflows into most of these dams. Watch is to be maintained in some of the small dams which are already filled upto more than 70% of its capacity. **Major Dams such as Koyna (49.01% full), Warna (61.92% full), Doodhganga (66.86% full) shall monitor the intensity of rainfall and inflows using the short-range inflow forecasts provided by CWC and decide on release as per Standard Operating Procedure and Rule Curves.**

Widespread rainfall with isolated very heavy to extremely heavy falls is very likely to occur over Gujarat state during 4<sup>th</sup> to 6<sup>th</sup> August. Several small reservoirs in Kutch, Amreli, Gir Somnath, Junagadh, Porbandar, Rajkot, Surendranagar, and Devbhumi Dwarka Districts are at Full Reservoir Level (FRL). With the likely rainfall for another two days over Saurashtra and Kutch, the situation has to be monitored very closely and the reservoir operations have to be done carefully to avoid any undue flooding in downstream areas after informing downstream towns/ villages.

Due to sudden increase in water levels in association with predicted rainfall there may be chances of spillage from small dams along west coast on West Flowing Rivers. Further, the increased level may also submerge some of the low level bridges and railway tracks along the rivers. Close Watch has to be maintained along these bridges along National Highways and Railway Bridges to avoid any incidents.

#### **Kerala, Karnataka & Tamil Nadu**

Due to heavy rainfall in Dakshina Kannada, Udupi, Uttara Kannada, Shivamogga, Chikmagalur, Hassan and Kodagu Districts, most of the rivers in this district are rising. River Agahanashini at Santeguli in Uttara Kannada district is flowing in Above Normal Flood Situation today with rising trend and close watch is to be maintained.

**Harangi Dam in Cauvery Basin in Kodagu District is filled upto 91% of its full capacity.** Due to heavy rainfall in Kodagu District, the Dam is expected to get increased inflows. **Similarly, Upper Tunga Project (Gajanur Dam) in Tungabhadra Sub-basin in Shivamogga District is at 100% of its capacity.** Due to very heavy rainfall in its catchment areas, River Kabini at Muthankara in Wayanad District in Kerala is rising and hence increased inflows are expected in Kabini Dam in Mysuru District which is filled upto 82% of its full capacity.

Since very heavy to extreme rainfall has been forecasted to continue for another 4-5 days, proper precautions have to be taken and advance release of water may have to be resorted to in order to avoid panic discharges after dam attaining FRL. **Releases from any of these reservoirs may be done as per rule curve and standard operating procedure.**

Heavy to very heavy rainfall has been forecasted in the Districts of Kasargode, Kannur, Kozhikode, Wayanad,

Malappuram, Palakkad, Thrissur, Ernakulam and Idukki in Kerala during the next 4 - 5 days. River Bhavani at Kottathara in Palakkad District in Kerala is flowing above Danger Level due to Extremely heavy rain in Nilgiri District of Tamilnadu. Due to forecasted rainfall, river levels are likely to rise depending on the intensity of rainfall. There may be some increase in inflows in some of the reservoirs. Idukki Dam on River Periyar in Idukki District is likely to get an average inflow of about 500 cumec upto 0800 hours of 05.08.2020. The Dam is filled to 37.7% of its full capacity as on today. However, most of the reservoirs in Kerala are having storage around 30 to 60% of their full capacity, the present spell of rainfall will aid in increasing the storage of various dams and no spillage is expected.

### 2.2.2 Bihar, Jharkhand and Gangetic West Bengal

Flood Forecasting Station on River Burhi Gandak at Rosera in Samastipur District of Bihar is flowing in Extreme Flood Situation and is expected to slowly fall to 46.4 m by 1000 hrs on 5<sup>th</sup> August 2020. Besides this River Adhwara Group at Bishunpur Flood Monitoring Station in Darbhanga District continues to flow in Extreme Flood Situation with almost steady trend. This is also likely to remain steady for the next 2 - 3 days before falling very slowly.

River levels in most of the north bank tributaries of Ganga are likely to continue in Severe to Extreme Flood Situation with slow falling trend for next 3-4 days. Rivers Gandak, Burhi Gandak, Bagmati, Adhwara Group, Kamla Balan, Kosi and Mahananda continue in Severe to Above Normal Flood Situation. This is likely to continue for another 2-3 days in Bihar and then slowly fall as rainfall is not forecasted in Bihar.

### 2.2.3 North Eastern States, Sub-Himalayan West Bengal & Sikkim

There has been a significant reduction in rainfall in the last 24 hours. River Brahmaputra is flowing in Above Normal to Severe Flood Situation with steady/ falling trend all along the course from Neamatighat to Dhubri and the levels are expected to fall slowly.

Rivers Jia-Bharali in Sonitpur District, Dhansiri (South) in Golaghat District, Kopili in Morigaon District in Brahmaputra Basin are flowing in Severe Flood Situation. As there is likelihood of further reduction in rainfall due to shift of the monsoon trough to its normal position, the river levels are expected to fall during the next 2-3 days.

### 2.2.4 Uttar Pradesh

Due to ongoing rainfall along the foot hills of Himalayas, River Ghaghra in Barabanki, Ayodhya & Ballia Districts and River Rapti in Gorakhpur District are flowing in Severe Flood Situation with rising trend. Since rainfall is likely to continue, the rivers are likely to continue flowing in Above Normal to Severe Flood Situation. River Ganga is flowing in Severe Flood Situation in Badaun District and in Above Normal Flood Situation in Ghaziabad and Farrukhabad Districts.

### Impact Based Actions

Strict vigil is to be maintained in all the above States & Districts for next 4 - 5 days. Breaches in Embankment if any may aggravate further flood like situation which should be monitored and all efforts to fill any such breaches should be done at the earliest. Maximum vigil has to be maintained along the rail and road tracks and bridges on these rivers and regulate traffic suitably to avoid any incident. **Submergence of low-level cause ways along rivers and railway tracks along flashy rivers is to be monitored closely especially along Western Ghat areas.** All district administrations can take effective measures taking into account the prevailing Covid19 situation in relief camps being set up in these districts.

## 3. Flood Affected Districts

<b>Assam:</b>	Jorhat, Golaghat, Sonitpur, Morigaon, Dhubri
<b>Bihar:</b>	Araria, Purnia, Katihar, Madhubani, Darbhanga, Muzaffarpur, Purba Champaran, Khagaria, Sitamarhi, Gopalganj, Samastipur, Siwan
<b>Uttar Pradesh:</b>	Barabanki, Ayodhya, Gorakhpur, Ballia, Badaun

## 4. Flood Alerted Districts

<b>Maharashtra:</b>	Districts of Palghar, Thane, Raigad, Ratnagiri, Sindhudurg along West Flowing Rivers between Tapi and Tadri, Nasik along Rivers Godavari and Damanganga, Pune along river Bhima, Satara & Kolhapur on river Krishna and its tributaries.
<b>Karnataka:</b>	Along West Flowing Rivers in Uttara Kannada, Dakshina Kannada, Udupi Districts, along river Tunga in Shivamogga District, along river Cauvery in Kodagu District, along river Hemavathi in Chikmagalur & Hassan Districts, along river Kabini in Mysuru District
<b>Kerala:</b>	Districts along rivers Pamba, Achankovil, Meenachil, Periyar, Bharathapuzha, Valapatnam, Kuttyadi
<b>Gujarat:</b>	Districts along rivers Damanganga, Tapi and Narmada