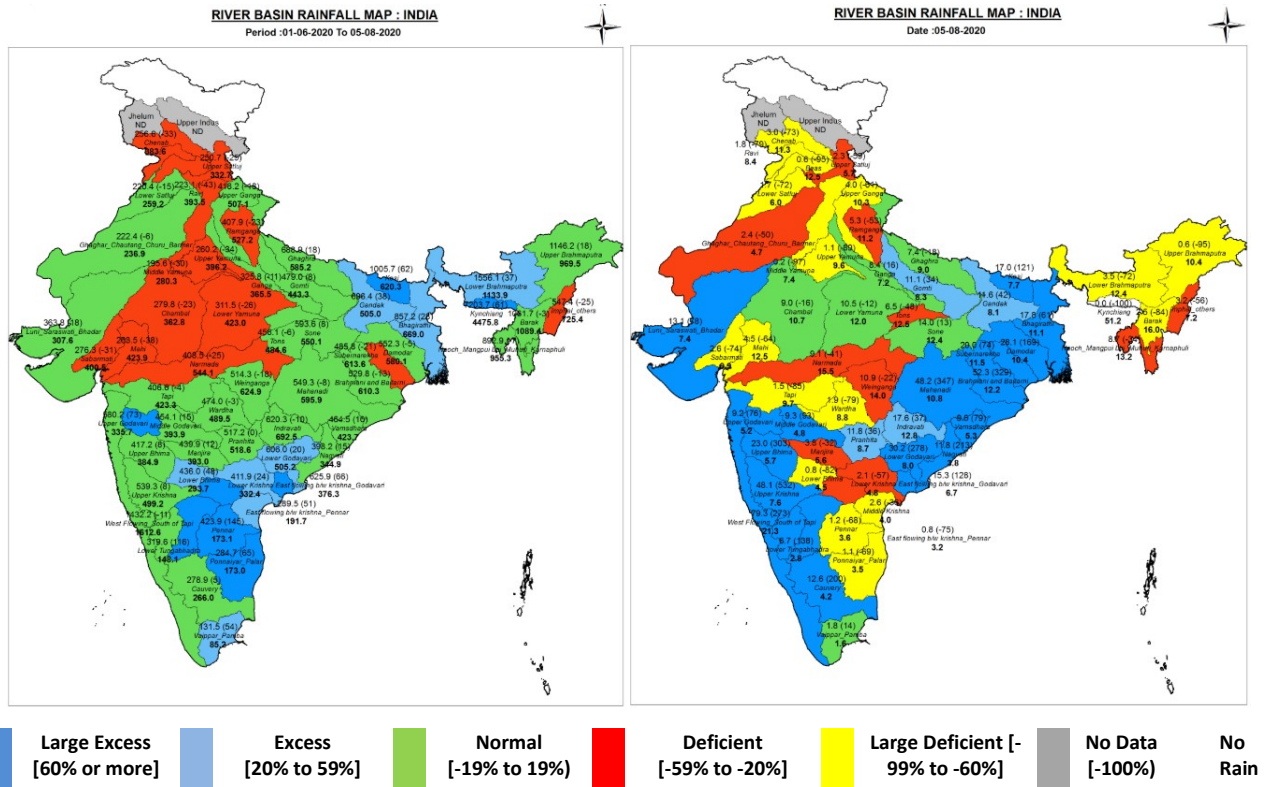




**Central Water Commission**  
**Daily Flood Situation Report cum Advisories**  
**05-08-2020**

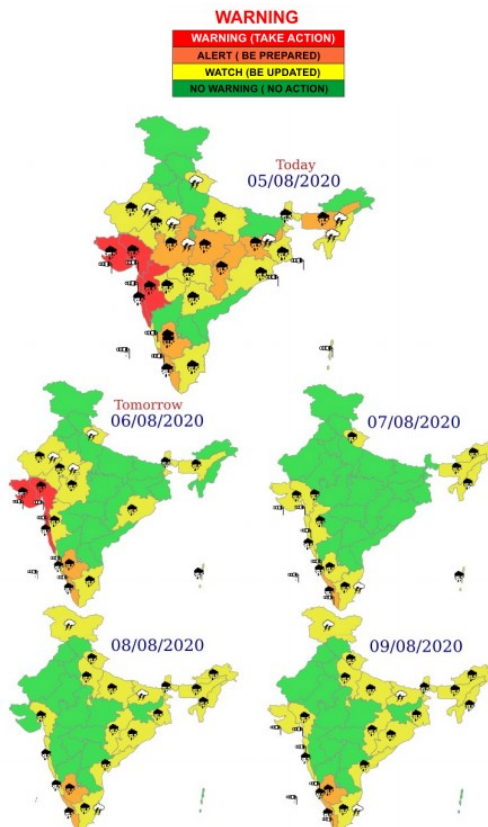
**1.0 IMD information**

**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 5<sup>th</sup> August 2020 (Midday) by IMD**



## 2.0 CWC inferences

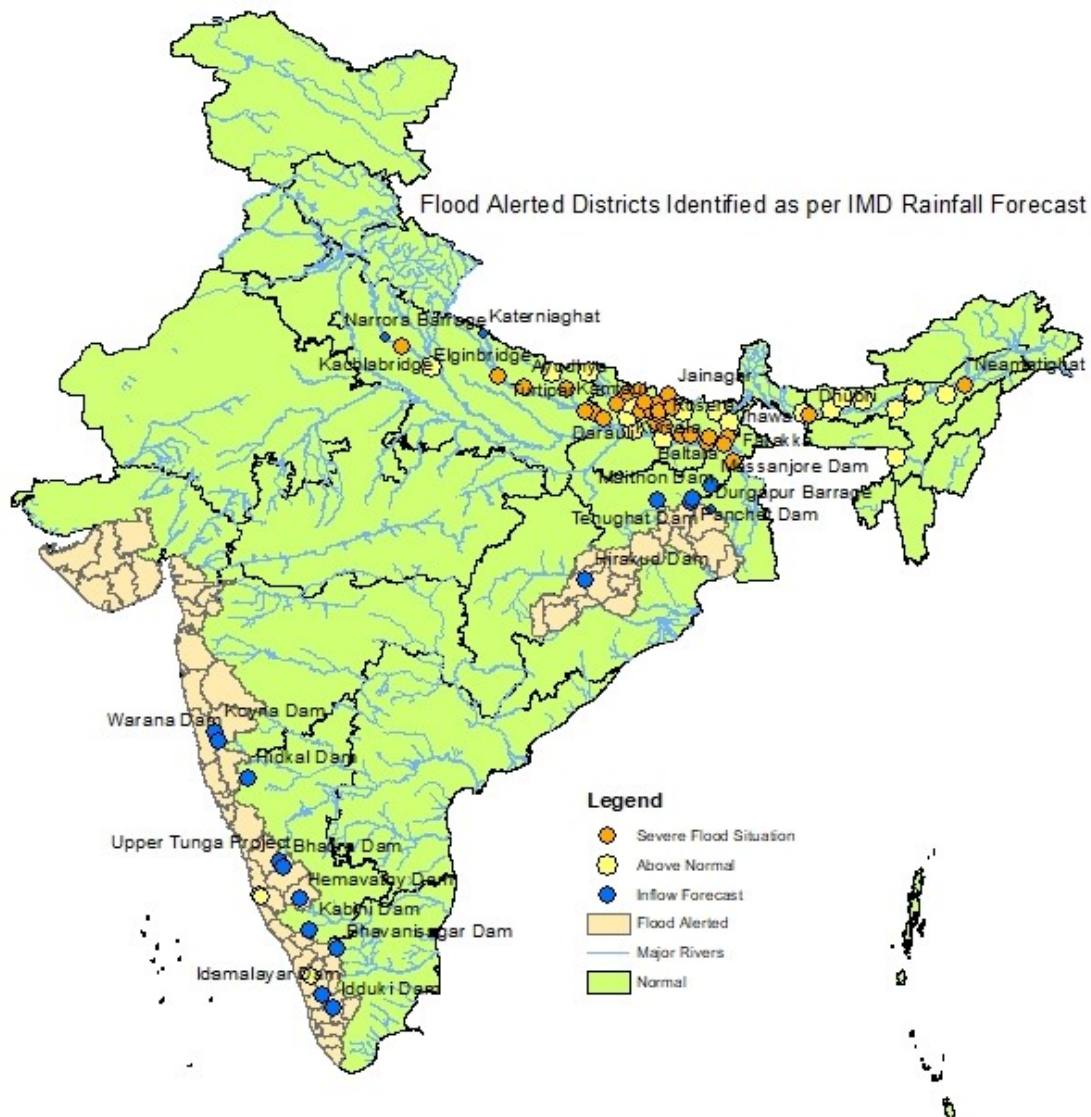
### 2.1 Flood Situation on 5<sup>th</sup> August 2020

On 5<sup>th</sup> August 2020, 28 Stations (18 in Bihar, 5 in Uttar Pradesh, 2 in Assam, and 1 each in Karnataka, Jharkhand and West Bengal) are flowing in Severe Flood Situation and 22 stations (9 in Assam, 9 in Bihar, 3 in Uttar Pradesh, 1 in Karnataka and 1 in Kerala) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 20 Barrages and Dams (8 in Karnataka, 4 in Jharkhand, 3 in Uttar Pradesh, 2 in Kerala, 2 in Maharashtra and 1 each in Odisha, Tamilnadu, Telangana 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>0</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>28</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>51</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>23</b>

Details can be seen in link :- [http://cwc.gov.in/sites/default/files/cfcr-cwcdfb05082020\\_6.pdf](http://cwc.gov.in/sites/default/files/cfcr-cwcdfb05082020_6.pdf)

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



## 2.2 CWC Advisories

- Widespread rainfall with isolated/ scattered heavy to very heavy falls most likely to continue over Gujarat state, Konkan & Goa (including Mumbai) and Madhya Maharashtra (Ghat areas) till 6<sup>th</sup> August and reduce thereafter; isolated extremely heavy falls likely over Gujarat region, Konkan & Goa and Madhya Maharashtra on 05<sup>th</sup> August and over Saurashtra & Kutch on 05<sup>th</sup> August & 06<sup>th</sup> August.
- Widespread rainfall with isolated heavy to very heavy falls most likely over Odisha, Chhattisgarh, East Madhya Pradesh, Gangetic West Bengal, and Jharkhand on 5<sup>th</sup> August 2020.
- Widespread rainfall with isolated heavy to very heavy falls also likely over Tamilnadu, Kerala and South Interior & Coastal Karnataka during next 4-5 days. Isolated extremely heavy falls likely over Coastal Karnataka on 05<sup>th</sup>, 08<sup>th</sup>, 09<sup>th</sup> August, over South interior Karnataka on 05<sup>th</sup> August; over Tamilnadu on 05<sup>th</sup>, 06<sup>th</sup>, 08<sup>th</sup> & 09<sup>th</sup> August; over Kerala & Mahe during 05<sup>th</sup> -09<sup>th</sup> August, 2020.

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

### 2.2.1 Ghat Area along West Coast

#### Gujarat, Daman and Dadra Nagar Haveli

Widespread rainfall with isolated heavy to very heavy rainfall is likely to occur over over Saurashtra & Kutch on 05<sup>th</sup> and 06<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 extremely heavy rainfall in Damanganga Basin, there is likelihood of rise in inflows in Madhuban Dam.

#### Maharashtra

Due to ongoing heavy rainfall in the Coastal Districts of Maharashtra, most of the west flowing rivers between Tapi and Tadri including Damanganga are expected to rise rapidly during the next 2-3 days and hence strict watch has to be maintained. Rivers Kajvi and Bav in Ratnagiri District, Kal in Raigad District and Gad in Sindhudurg District are rising rapidly. Due to Extremely heavy rainfall at Mahabaleshwar (320.9 mm), Koyna Dam (271.0 mm) as well as in catchments of various other small reservoirs, there is rapid rise in inflows into the Koyna and Warna Dams. Morna Dam in Satara District has attained its FRL today and is likely to release its excess flow due to continuing rainfall.

Due to continuing heavy rainfall, Koyna is likely to get an inflow of around 4000 cumec till 2000 hrs of today. This will increase the storage to near about 60% and with continuing rainfall there is likelihood of further rise in inflows for atleast 2-3 days. Warna Dam in Satara District is also likely to get an inflow of around 900 cumec till today night 2000 hrs. This will increase the storage to almost about 75%. With further rains forecast in the catchment, there is likelihood of increase in inflows for at least 2-3 days. Similarly many of the small dams in the Satara, Kolhapur District are getting heavy inflows due to rainfall. **Major Dams such as Koyna (55.08% full), Warna (70.68% full), Doodhganga (71.98% 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. The releases from these dams have to be intimated to all concerned downstream Districts as well as to lower riparian States.**

**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.**

#### Goa

Due to extremely heavy rain in Belgavi District of Karnataka, most of the rivers flowing from Karnataka to Goa are rising rapidly. River Khadepar at Collem in South Goa District and River Mahadayi at Ganjem in North Goa District are rising rapidly due to very heavy rainfall in Belgavi District in Karnataka. Necessary precautions along the banks of these rivers in South and North Goa have to be taken.

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.

#### Karnataka

There is increase in inflows in Hidkal Dam on river Ghataprabha due to high intensity rainfall in the catchment areas of Maharashtra. 55% of the capacity is filled and with increased inflows, there may be chances that the dam may get filled up till 80 to 85% due to this spell of rainfall. The combined flows from Krishna, Doodhganga, Panchaganga, Ghataprabha will be realised at Alamatti Dam and the inflows are likely to rise rapidly from tomorrow 6<sup>th</sup> August onwards. The dam is having

storage of about 71%. Since Narayanpur Dam downstream of Almatti Dam is near its FRL, necessary pre-depletion can be done from Narayanpur Dam.

Inflows into Gajanur and Bhadra Dam in Tungabhadra Basin in its upstream due to very heavy rains in their catchments. Since the Gajanur Dam is already at FRL necessary care should be taken to regulate excess flow downstream areas. Bhadra Dam is having storage of 53% but the storage is likely to increase rapidly due to forecasted rainfall. Necessary precautions for proper gate operation should be taken in association with intense ongoing rainfall.

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 Aghanashini at Santeguli in Uttara Kannada district is flowing in Extreme Flood Situation today with rising trend and close watch is to be maintained.

Due to continuing rains in entire upstream of Cauvery, Harangi, Hemavathi and Kabini there has been increased inflows into all reservoirs. Kabini Dam in Mysuru District which is filled upto 82% of its full capacity has been releasing an average of 607 cumec (21435 cusec) till today morning. As the rain is continuing in catchment areas of Kabini in Wynadu District of Kerala, there is likelihood of further rise in inflows for next 2-3 days. River Cauvery at Kudige in Kodagu District is flowing close to its Danger Level. In view of continuing rainfall, there are chances for the river to cross Danger Level today night or early tomorrow morning. Necessary gate operations have to be done as per SOP after informing all downstream areas and lower riparian States. 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.

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.**

## Kerala

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 3-4 days. River Bhavani at Kottathara in Palakkad District in Kerala is flowing around Danger Level due to extremely heavy rain in Nilgiris District of Tamilnadu. Due to forecasted rainfall, river levels are likely to rise depending on the intensity of rainfall. Heavy to very heavy rain is occurring in North Kerala and in Periyar Basin. There is increased inflows into Idukki and Edamalayar Dams. Since the rainfall is expected to continue for 3-4 days, the inflows are likely to continue depending on the intensity of rainfall. However, there is sufficient storage available in these dams.

## Tamilnadu

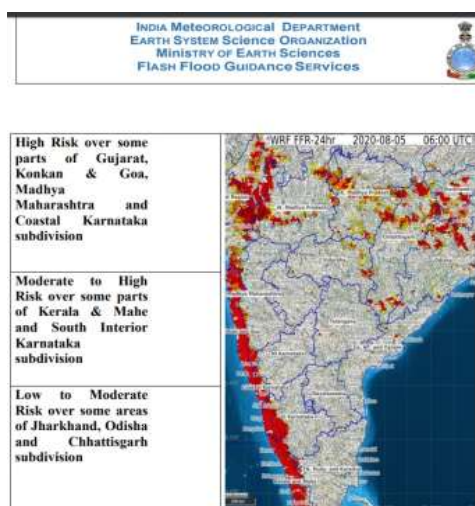
Rivers Bhavani and Noyyal in Cauvery Basin is rising due to extremely heavy rains in Nilgiris and Coimbatore District, Nirar a tributary of Edamalayar is also getting increased flows due to very heavy rain in its catchment in Coimbatore District.

### 2.2.2 Bihar, Jharkhand and Gangetic West Bengal

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.

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 Flash Flood Guidance issued by IMD for various areas of concern is as given below:





#### 2.2.4 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

**Bihar:** Araria, Purnia, Katihar, Madhubani, Darbhanga, Muzaffarpur, Purba Champaran, Khagaria, Sitamarhi, Gopalganj, Samastipur, Siwan  
**Uttar Pradesh:** Barabanki, Ayodhya, Gorakhpur, Ballia, Badaun

#### 4. Flood Alerted Districts

**Maharashtra:** 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.  
**Karnataka:** 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  
**Kerala:** Districts along rivers Pamba, Achankovil, Meenachil, Periyar, Bharathapuzha, Valapatnam, Kuttyadi  
**Gujarat:** Districts along rivers Damanganga, Tapi and Narmada  
**Odisha:** Districts along rivers Mahanadi, Brahmani-Baitarni  
**Chhattisgarh:** Districts along river Mahanadi and its tributaries