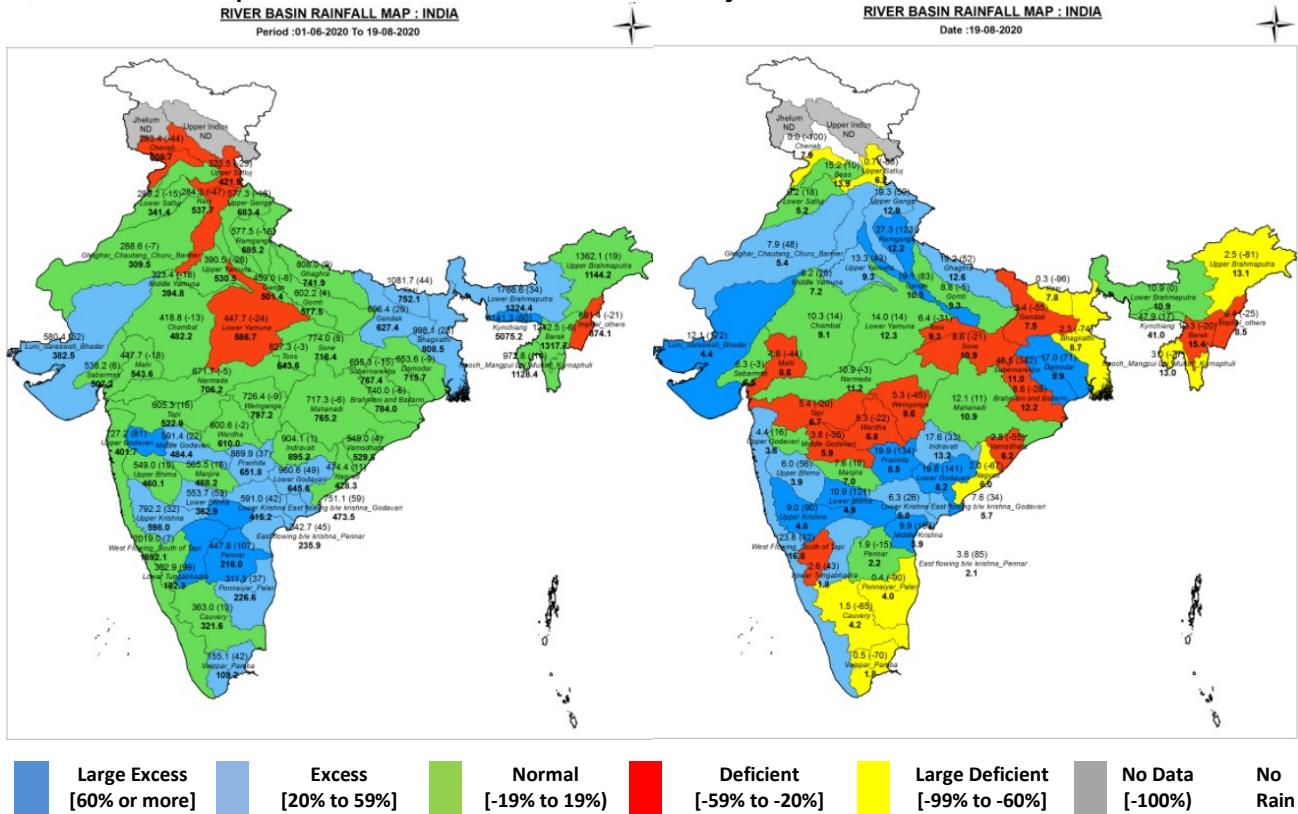




**Central Water Commission**  
**Daily Flood Situation Report cum Advisories**  
**19-08-2020**

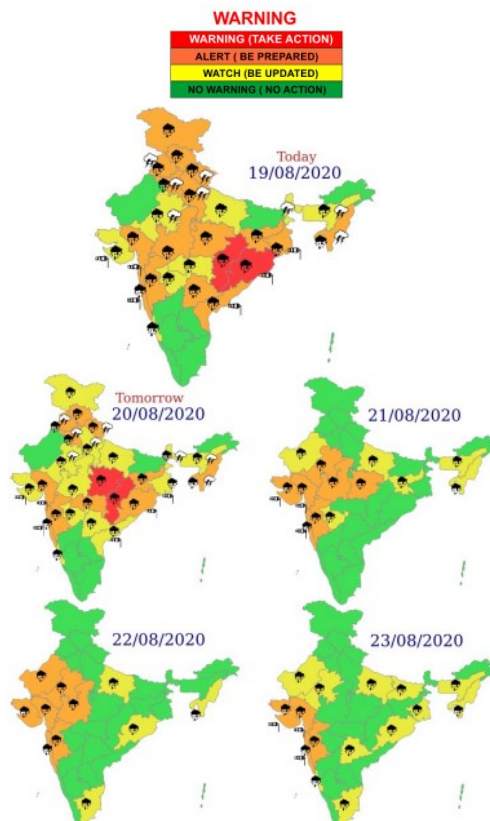
**1.0 IMD information**

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



## 2.0 CWC inferences

### 2.1 Flood Situation on 19<sup>th</sup> August 2020

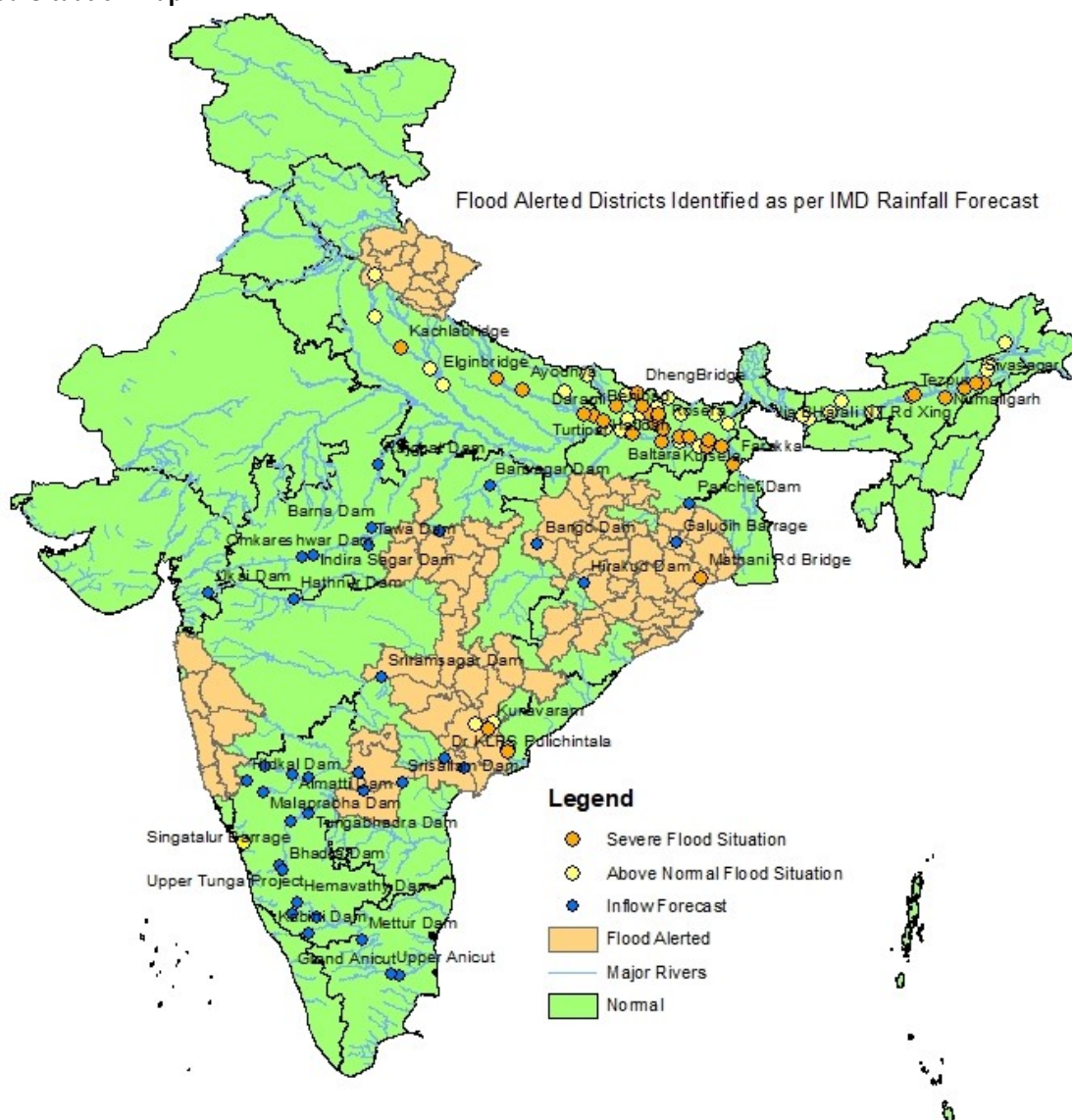
#### 2.1.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 19<sup>th</sup> August 2020, 31 Stations (16 in Bihar, 6 in Assam, 4 in Uttar Pradesh, 2 in Andhra Pradesh and 1 each in Jharkhand, Odisha and West Bengal) are flowing in Severe Flood Situation and 31 stations (13 in Bihar, 7 in Assam, 5 in Uttar Pradesh, 2 in Andhra Pradesh and 1 each in Arunachal Pradesh, Karnataka, Telangana and Uttarakhand) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 46 Barrages and Dams (13 in Karnataka, 7 in Madhya Pradesh, 5 each in Andhra Pradesh & Uttar Pradesh, 3 each in Tamilnadu, Telangana & West Bengal, 2 in Jharkhand, 1 each in Chhattisgarh, Gujarat, Maharashtra, Odisha & Rajasthan).

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)	0
<b>B</b>	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	31
<b>C</b>	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	31
Total number of sites above Warning Level ( A+B+C)		62
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)		46

Details can be seen in link- [http://cwc.gov.in/sites/default/files/cfc-cwcdfb19082020\\_5.pdf](http://cwc.gov.in/sites/default/files/cfc-cwcdfb19082020_5.pdf)

#### 2.1.2 Flood Situation Map



## 2.2 CWC Advisories

- Widespread rainfall with isolated heavy to very heavy falls very likely over Gujarat state, Maharashtra & Goa, Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha and Vidarbha during next 4-5 days.
- Isolated extremely heavy falls are likely over southwest Odisha on 19<sup>th</sup>; Chhattisgarh on 19<sup>th</sup> & 20<sup>th</sup>; East Madhya Pradesh on 20<sup>th</sup>; West Madhya Pradesh on 21<sup>st</sup> & 22<sup>nd</sup>; East Rajasthan on 22<sup>nd</sup> and Gujarat State on 22<sup>nd</sup> & 23<sup>rd</sup> August, 2020.
- Fairly widespread to widespread rainfall activity with Isolated heavy falls very likely over northwest India including Western Himalayan region till 20<sup>th</sup> August, 2020 and decrease thereafter.
- Isolated heavy to very heavy rainfall also very likely over Jammu Division on 19<sup>th</sup>; Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi on 19<sup>th</sup> & 20<sup>th</sup> and West Uttar Pradesh on 19<sup>th</sup> August, 2020.

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

### 2.2.1 Gujarat, Maharashtra & Goa

Heavy to very Heavy rainfall is likely over Maharashtra State and Gujarat State during next 4-5 days. Water Levels in the basins of Lower Mahi, Lower Narmada, Lower Tapi and Damanganga are rising. Rivers Narmada, Tapi, Damanganga are rising rapidly and further rise is expected due to the forecasted heavy rainfall for next 4-5 days. Madhuban Dam in Valsad District and Ukai Dam in Surat District on river Tapi are likely to get heavy inflows due to the forecasted rainfall. Other Dams in this region such as Kadana Dam on river Mahi, Panam Dam on river Panam and Sardar Sarovar Dam on river Narmada are also getting increased inflows. Many of the small dams in Saurashtra & Kutch are already near their FRL and as heavy to very heavy rainfall has also been forecasted for 4-5 days, close watch is to be maintained for proper reservoir operation.

Due to heavy rainfall, the water levels in West Flowing Rivers between Tapi and Tadri in States of Maharashtra, Goa and UT of Dadra & Nagar Haveli and Daman & Diu, such as rivers Damanganga, Ulhas, Savithri, Kal, etc are rising rapidly. Due to the forecasted heavy to very heavy rainfall in the next 4-5 days, the levels are expected to rise further. Small Dams in these reaches may get filled up and start releasing excess water at short notice.

### 2.2.2 Odisha, Chhattisgarh, Andhra Pradesh & Telangana

Heavy to very heavy rainfall is likely over Odisha and Chhattisgarh during next 4-5 days. River Mahanadi at Hirakud Dam is likely to continue getting heavy inflows due heavy rainfall forecasted in Chhattisgarh catchment. Bango Dam in Chhattisgarh is also getting inflows above its threshold limit.

Due to ongoing heavy rainfall, River Godavari is also getting good flows due to rain in Chhattisgarh, Maharashtra and Telangana. Due to forecasted heavy to very heavy with isolated extremely heavy rainfall in South West Odisha and Chhattisgarh, the rivers in Godavari basin are expected to rise again depending on the intensity of rainfall. River Indravathi has already started rising at Pathagudem in Bijapur District of Chhattisgarh.

As inflow of about 3.5 to 4 Lakh cusec is expected for next 1-2 days, Srisailem Dam may reach its FRL in 1-2 days. Since Nagarjunasagar Dam is also about 83% filled, it is expected that with inflows for next 4 to 5 days may increase its storage due to which Nagarjunasagar dam may also reach very close to FRL during the next 3-4 days. Subject to outflow from Sunkesula Barrage on River Tungabhadra in Kurnool District of Andhra Pradesh, Kurnool Town may cross its warning level.

### 2.2.3 Karnataka

Most of the dams in Krishna Basin are getting heavy inflows due to heavy rain in Madhya Maharashtra. Close watch has to be maintained for any increased inflows likely due to the heavy to very heavy rainfall forecasted in Madhya Maharashtra during the next 4-5 days. The combined flows from Upper Krishna, Dudhganga, Panchaganga will be realised at Almatti Dam and the inflows are likely to rise rapidly in 2-3 days.

Due to releases from Upper Tunga Dam and Bhadra Dam, heavy inflows are expected at Singatalur Barrage and Tungabhadra Dam.

### 2.2.4 Madhya Pradesh

Due to forecast of heavy to very heavy rainfall in Madhya Pradesh for next 4-5 days, there is likelihood of rise in Water Levels in rivers such as Chambal, Mahi, Sabarmati, Kalisindh, Banas (both East and West Flowing), etc. Rajghat Dam in Ashoknagar District on river Betwa in Madhya Pradesh is getting heavy inflows. Due to very heavy rainfall forecast for next 4-5 days in its catchment maximum care has to be taken to operate the gates and inform all downstream areas including lower riparian states as well as Matatila Dam in Lalitpur District of UP. Bansagar Dam on River Sone in Madhya Pradesh is expected to get increased inflow due to forecasted rainfall.

### 2.2.5 Himachal Pradesh, Punjab, Haryana, Uttarakhand, Uttar Pradesh, Jammu & Kashmir

Heavy to very heavy rainfall with extremely heavy rainfall is likely to occur over Uttarakhand from 19<sup>th</sup> - 20<sup>th</sup> August, 2020 and West Uttar Pradesh on 19<sup>th</sup>. There is likelihood of rise in Water Levels in rivers such as Sutlej, Ravi, Beas, Ghaggar, Yamuna, Bhagirathi, Alaknanda, Ganga, Ramganga, Sarda, Sarju and Ghaghra. There is likelihood of flash floods in some



of the hill districts in these states in association with cloud burst. Necessary precautions have to be taken for possible landslides and blockages of river flows due to landslides in high ranges of these states. River Jhelum may also get some increased flow due to forecasted very heavy rainfall today. Presently the water level in Jhelum River is very much below warning level at all the 3 Flood Forecasting stations.

## 2.2.6 Bihar, Jharkhand and Gangetic West Bengal

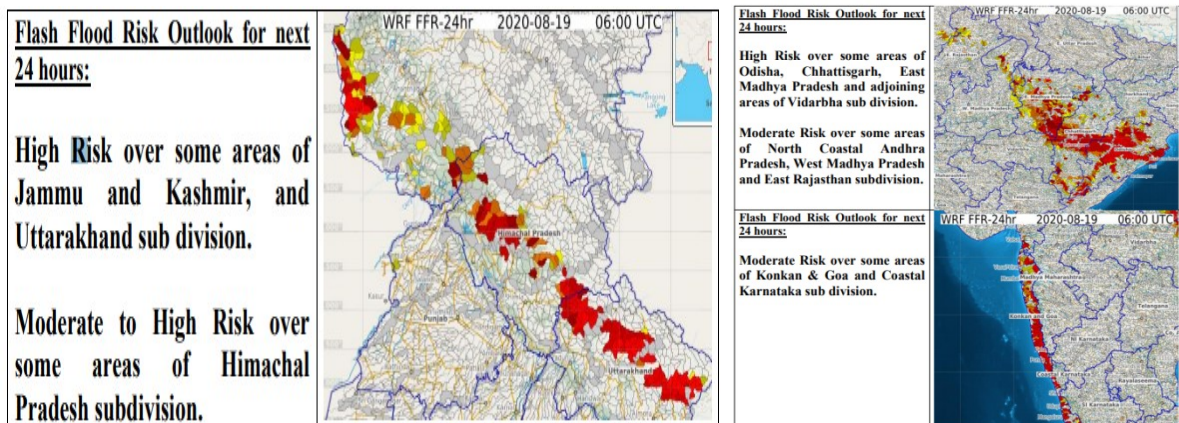
Many of the rivers in Bihar continue to flow in Severe to Above Normal Flood Situation with falling trend. The situation will continue for another 3-4 days.

## 2.2.7 North Eastern States

Severe Flood Situation is continuing in Brahmaputra and its tributaries in Jorhat, Sonitpur, Golaghat and Sibsagar Districts. Due to forecasted rainfall, there is likelihood of increase in flood situation in other districts also.

## 2.2.8 Flash Flood Guidance

Flash Flood Guidance for next 24 hours as issued by IMD is appended.



## 2.2.9 Storage Position in Dams where Inflow forecast is being issued by CWC as on 19<sup>th</sup> August 2020

S. No.	River	Station	State	Present Gross Storage (%)	Rainfall Warning
1	Kabini	Kabini Dam	Karnataka	99	No
2	Purna	Yeldari Dam	Maharashtra	98.05	Yes
3	Cauvery	Krishnarajasagar	Karnataka	98	No
4	Hemavathy	Hemavathy Dam	Karnataka	98	No
5	Ghataprabha	Hidkal Dam	Karnataka	97	No
6	Narmada	Bargi Dam	Madhya Pradesh	97	Yes
7	Tungabhadra	Tungabhadra Dam	Karnataka	96	No
8	Harangi	Harangi Dam	Karnataka	96	No
9	Nira	Veer Dam	Maharashtra	95	Yes
10	Wardha	Upper Wardha Project	Maharashtra	94.22	Yes
11	Pench	Totladoh Project	Madhya Pradesh	94	Yes
12	Sone	Bansagar Dam	Madhya Pradesh	92	Yes
13	Hasdeo	Bango Dam	Chhattisgarh	91.9	Yes
14	Godavari	Sripada Yellampally Dam	Telangana	91.87	Yes
15	Malaprabha	Malaprabha Dam	Karnataka	91	No
16	Warana	Warana Dam	Maharashtra	90	Yes
17	Bhadra	Bhadra Dam	Karnataka	90	No
18	Kalisindh	Kalisindh Dam	Rajasthan	88.87	Yes
19	Koyna	Koyna Dam	Maharashtra	86	Yes
20	Krishna	Srisailem Dam	Andhra Pradesh	85	Yes
21	Kaddamvagu	Kaddam Dam	Telangana	84.24	Yes
22	Gambhiri	Panchana Dam	Rajasthan	83.48	Yes
23	Sindhpana	Manjlegaon	Maharashtra	82.49	Yes

24	Betwa	Rajghat Dam	Madhya Pradesh	81	Yes
25	Wainganga	Upper Wainganga Project	Madhya Pradesh	80.24	Yes
26	Krishna	Almatti Dam	Karnataka	80	No
27	Krishna	Priyadarshini Jurala Project	Telangana	78	Yes
28	Som Kamla	Som Kamla Amba Dam	Rajasthan	77.37	Yes
29	Tapi	Ukai Dam	Gujarat	75.35	Yes
30	Chambal	Rana Pratap Sagar	Rajasthan	72.84	Yes
31	Penganga	Issapur Project	Maharashtra	72.07	Yes
32	Krishna	Narayanpur Dam	Karnataka	72	No
33	Mula	Mula Dam	Maharashtra	70.56	Yes

Reservoirs shown in red are having gross storage greater than 90%, reservoirs shown in orange are having gross storage greater than 75% and the reservoirs shown in yellow are having gross storage greater than 70%. Close watch has to be maintained at these reservoirs wherever heavy rainfall (Yellow) and Very Heavy Rainfall (Orange) and Extremely Heavy Rainfall (Red) warning in next 24 hours are given (last column of Table above).

### Impact Based Actions

Strict vigil is to be maintained in all the above States & Districts for next 4-5 days. It is advised that close watch has to be maintained for increased inflows in dams. Releases from any of these reservoirs may be done as per rule curve and standard operating procedure with advance intimation to downstream areas.

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. All district administrations can take effective measures taking into account the prevailing Covid-19 situation in relief camps being set up in these districts.

### 3. Flood Alerted Districts

<b>Gujarat:</b>	Districts along Narmada, Tapi, Damanganga, Mahi
<b>Madhya Pradesh:</b>	Districts along Narmada and Upper Chambal, Wainganga, Tapi
<b>Rajasthan:</b>	Districts along Chambal and its tributaries, Mahi
<b>Maharashtra:</b>	Districts along West Flowing Rivers in Thane, Godavari, Damanganga, Krishna & its tributaries
<b>Telangana:</b>	Districts along Godavari and its tributaries
<b>Chhattisgarh:</b>	Districts along Indravathi and its tributaries, Mahanadi & its tributaries
<b>Odisha:</b>	Districts along Indravathi, Sabari, Mahanadi and its tributaries
<b>Assam:</b>	Districts along Brahmaputra and its tributaries.