



**Central Water Commission**  
**Daily Flood Situation Report cum Advisories**  
**17 -07-2019**

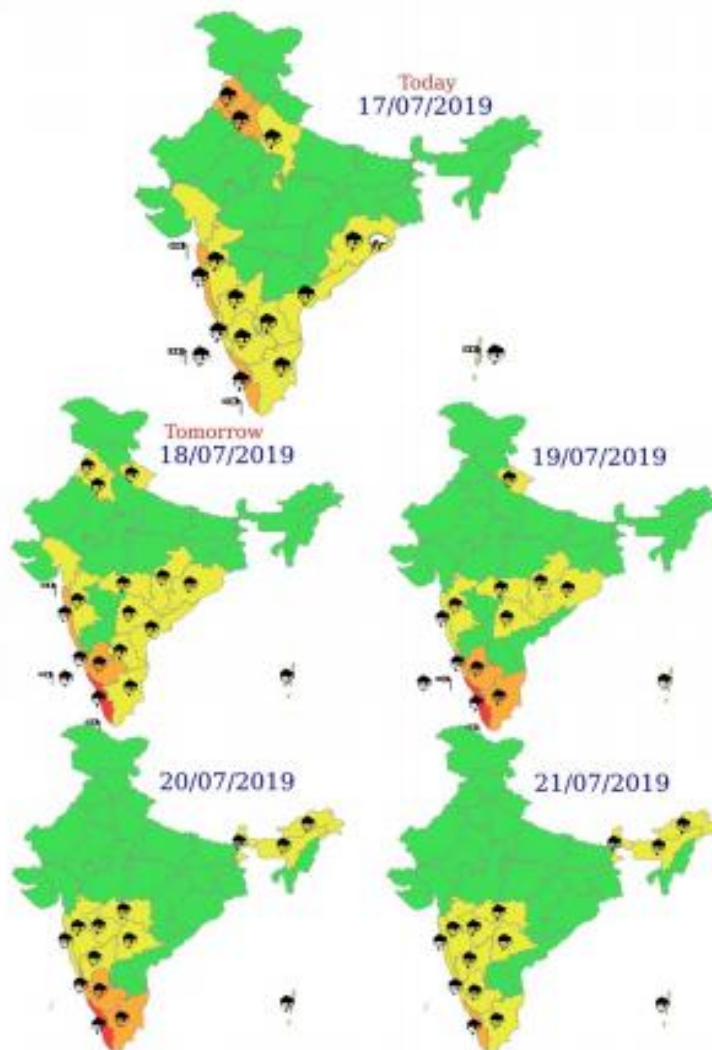
**1.0 IMD information**

**1.1 Rainfall Situation**

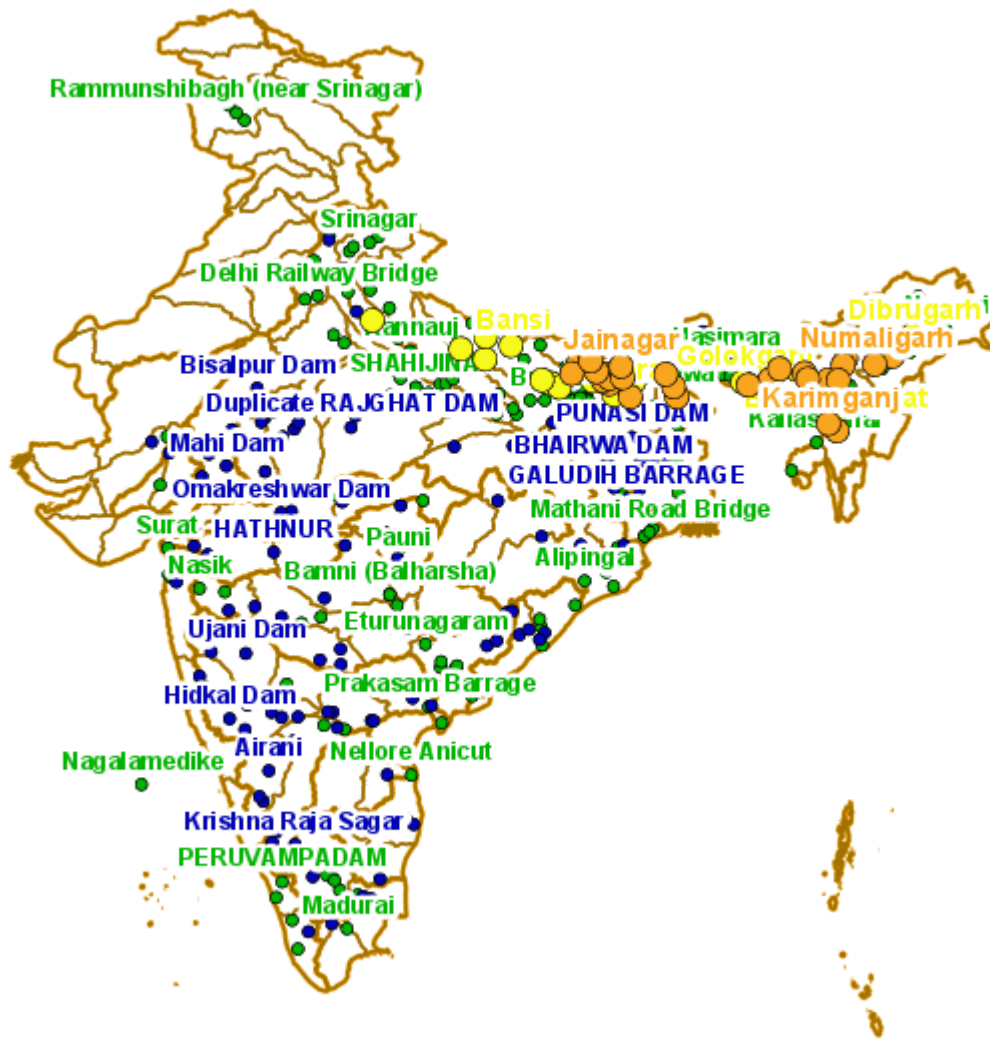
**1.1.1 Amount of rainfall recorded at 0830 hours IST of today (6 cm or more) as per IMD**

Name of Place (State)	Rainfall (in cm)
Vengurla (Maharashtra)	23
Bhatinda (Punjab)	14
Kankavali (Maharashtra)	11
Mulde (Maharashtra)	10
Kudal, Tamini, Dungerwadi, Khopoli & Gaganbawda (Maharashtra), Narayanpur Dam (Karnataka)	9 each
Dodamarg, Dawdi, Lonavala (Maharashtra), Sonipat (Haryana)	8 each
Shirgaon, Vaibhavwadi, Rajapur, Mahad&Tala (Maharashtra), Panjim (Goa), Avanigada (Andhra Pradesh), Badaun (UP), Hisar (Punjab), Gohana, Jind& Sirsa (Haryana)	7 each
Shahjahanpur, Kachlabridge, Gautambudh Nagar & Bagpat (UP), Kannur (Kerala),Kundapur (Karnataka), Mansa (Punjab), Udhampur (J&K), Sujjanpur Sira (HP), Julana, Narwana (Haryana)	6 each

**1.1.2 Rainfall forecast for next 5 days issued on 17<sup>th</sup>July, 2019 (Midday) by IMD**



2.0 CWC inferences  
 2.1 Flood Situation



2.1.1 Summary of Flood Situation as per CWC Flood Forecasting network

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))	27
<b>C</b>	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	20
<b>D</b>	Normal Flood Situation with Forecast: (Site (s) where water level is below Warning Level but Forecast Issued)	9
Total number of sites above Warning Level ( A+B+C)		56
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)		1

## 2.1.2 Severe Flood Situation

River Station	District State	Warning Level (m)	Danger Level (m)	Highest flood Level (m) Date	Actual level	Forecasted Level
					Trend Time	Trend Date Time
Mahananda Araria	Araria Bihar	46.0	47.3	49.4 2017-08-14	48.16 Falling 15:00	48.1 Falling 17/7/2019 20:00:00
Bagmati Dheng Bridge	Sitamarhi Bihar	69.1	70.1	73.0 2017-08-13	70.47 Falling 14:00	70.4 Falling 18/7/2019 06:00:00
Gandak Dumariaghat	Gopalganj Bihar	61.22	62.22	64.1 2017-08-17	62.36 Falling 14:00	62.32 Falling 18/7/2019 06:00:00
Beki Beki Road bridge	Barpeta Assam	44.1	45.1	46.2 2000-08-04	45.22 Falling 15:00	45.17 Falling 17/7/2019 18:00:00
Kopili Dharamtul	Marigaon Assam	55.0	56.0	58.09 2004-07-21	56.84 Steady 15:00	56.82 Steady 17/7/2019 21:00:00
Brahmaputra Dhubri	Dhubri Assam	27.62	28.62	30.36 1988-08-28	30.34 Rising 15:00	30.3 Steady 17/7/2019 21:00:00
Brahmaputra Goalpara	Goalpara Assam	35.27	36.27	37.43 1954-07-31	37.35 Steady 15:00	37.4 Steady 18/7/2019 06:00:00
Brahmaputra Guwahati(D.C.Court)	Kamrup Assam	48.68	49.68	51.46 2004-07-21	51.1 Falling 15:00	50.85 Falling 18/7/2019 06:00:00
Kopili Kampur	Nagaon Assam	59.5	60.5	61.79 2004-07-20	60.86 Steady 15:00	60.73 Falling 18/7/2019 09:00:00
Kushiyara Karimganj	Karimganj Assam	13.94	14.94	16.57 2010-06-10	15.52 Falling 15:00	15.43 Falling 17/7/2019 18:00:00
Katakhal Matizuri	Hailakandi Assam	19.27	20.27	22.73 2007-09-10	20.58 Falling 15:00	20.54 Falling 17/7/2019 18:00:00
Jiabharali NT Road Crossing Jia-Bharali	Sonitpur Assam	76.0	77.0	78.5 2007-07-26	77.8 Falling 15:00	77.6 Falling 18/7/2019 00:00:00
Brahmaputra Neamatighat	Jorhat Assam	84.04	85.04	87.37 1991-07-11	86.08 Falling 15:00	85.8 Falling 18/7/2019 09:00:00
Dhansiri (South) Numaligarh	Golaghat Assam	76.42	77.42	80.16 2018-08-03	78.01 Falling 15:00	78.0 Falling 17/7/2019 16:00:00
Puthimari Puthimari NH Rd Xing	Kamrup Assam	50.81	51.81	55.08 2008-08-31	52.48 Falling 15:00	52.2 Falling 17/7/2019 19:00:00
Brahmaputra Tezpur	Sonitpur Assam	64.23	65.23	66.59 1988-08-27	65.8 Falling 15:00	65.6 Falling 18/7/2019 09:00:00
Kosi Baltara	Khangaria Bihar	32.85	33.85	36.4 1987-08-15	35.59 Falling 14:00	35.5 Falling 18/7/2019 06:00:00
Bagmati Benibad	Muzaffarpur Bihar	47.68	48.68	50.01 2004-07-12	49.1 Steady 15:00	49.0 Falling 18/7/2019 06:00:00
Mahananda Dhengraghat	Purnia Bihar	34.65	35.65	38.2 2017-08-14	36.9 Falling 15:00	36.75 Falling 18/7/2019 06:00:00

Adhwara	Darbhanga	45.94	46.94	49.52	47.28	47.3 Steady
Ekmgihat	Bihar					18/7/2019 06:00:00
Bagmati	Darbhanga	44.72	45.72	48.96	45.89	46.0 Falling
Hayaghat	Bihar			1987-08-14	Rising 15:00	18/7/2019 06:00:00
Kamla	Madhubani	66.75	67.75	71.35	68.05	68.0 Falling
Jainagar	Bihar				Falling 15:00	17/7/2019 16:00:00
Kamalabalan	Madhubani	49.0	50.0	53.01	51.24	51.2 Falling
Jhanjharpur	Bihar			2004-07-10	Falling 15:00	17/7/2019 16:00:00
Mahananda	Katihar	30.4	31.4	34.07	33.89	32.85 Falling
Jhawa	Bihar			2017-08-14	Falling 15:00	17/7/2019 22:00:00
Adhwara	Darbhanga	49.0	50.0	52.99	51.27	50.2 Falling
Kamtaul	Bihar			1987-08-12	Falling 15:00	18/7/2019 06:00:00
Burhi Gandak	Purba Champaran	62.2	63.2	67.09	63.58	63.45 Falling
Labeglaghat	Bihar			1975-07-30	Rising 15:00	18/7/2019 06:00:00
Bagmati	Sitamarhi	52.73	53.73	58.15	56.43	56.33 Falling
Runisaidpur	Bihar			2017-08-14	Falling 14:00	18/7/2019 06:00:00

### 2.1.3 Above Normal

River Station	District State	Warning Level (m)	Danger Level (m)	Highest flood Level (m) Date	Actual level	Forecasted Level
					Trend Time	Trend Date Time
Burhi Gandak	Purba Champaran	58.62	59.62	61.17	58.91	58.97 Steady
Ahirwalla	Bihar				Rising 14:00	18/7/2019 06:00:00
Ganga	Budaun	161.0	162.0	162.79	161.62	161.7 Rising
Kachhlabridge	Uttar Pradesh			2010-09-24	Steady 14:00	18/7/2019 00:00:00
Adhwara	Sitamarhi	80.85	81.85	83.0	81.12	80.65 Falling
Sonbarsa	Bihar				Falling 15:00	18/7/2019 06:00:00
Mahananda	Kishangani	65.0	66.0	67.22	65.18	65.1 Falling
Talbpur	Bihar				Falling 15:00	17/7/2019 20:00:00
Siang	East Siang	152.96	153.96	157.54	153.23	153.16 Falling
Passighat	Arunachal Pradesh			2000-06-11	Steady 15:00	18/7/2019 00:00:00
Barak	Cachar	15.85	16.85	18.48	16.57	
Badarpurghat	Assam			2007-09-11	Falling 15:00	
Subansiri	Lakhimpur	81.53	82.53	86.21	82.29	82.1 Falling
Badatighat	Assam			1972-07-28	Falling 15:00	18/7/2019 00:00:00
Brahmaputra	Dibrugarh	104.7	105.7	106.48	104.91	104.92 Falling
Dibrugarh	Assam			1998-09-03	Falling 15:00	17/7/2019 18:00:00
Sankosh	Dhubri	28.94	29.94	30.95	29.66	29.6 Falling
Golokganj	Assam			2007-09-08	Falling 15:00	17/7/2019 18:00:00

Pagladiya	Nalbari	51.75	52.75	55.45	52.45	52.4
Pagladiya N T Road Crossing	Assam			2004-07-08	Falling 15:00	Falling 17/7/2019 18:00:00
Kosi	Supaul *	46.75	47.75	49.24	47.42	47.2
Basua	Bihar			2017-08-13	Rising 14:00	Falling 17/7/2019 22:00:00
Ghagra	Siwan	59.82	60.82	61.74	60.09	60.08
Darauli	Bihar			1998-08-29	Falling 12:00	Falling 18/7/2019 08:00:00
Ghagra	Siwan	56.04	57.04	58.01	56.41	56.41
Gangpur Siswan	Bihar			1983-09-18	Steady 12:00	Steady 18/7/2019 04:00:00
Burhi Gandak	Samastipur	41.63	42.63	46.35	41.76	
Rosera	Bihar			1987-08-16	Rising 14:00	
Burhi Gandak	Muzaffarpur	51.53	52.53	54.29	52.28	52.35
Sikandarpur (Muzzafarpur)	Bihar			1987-08-15	Rising 15:00	Rising 18/7/2019 06:00:00
Ghagra	Faizabad	91.73	92.73	94.01	92.01	91.85
Ayodhya	Uttar Pradesh			2009-10-11	Falling 15:00	Falling 18/7/2019 08:00:00
Rapti	Balrampur *	103.62	104.62	105.54	104.47	104.3
Balrampur	Uttar Pradesh			2017-08-15	Falling 15:00	Falling 18/7/2019 08:00:00
Rapti	Sidharthnagar	83.9	84.9	85.88	84.12	84.0
Bansi	Uttar Pradesh			2017-08-20	Steady 15:00	Falling 18/7/2019 08:00:00
Ghagra	Bara Banki	105.07	106.07	107.616	105.35	105.25
Elginbridge	Uttar Pradesh			2014-08-16	Falling 15:00	Falling 18/7/2019 08:00:00
Ghagra	Ballia	63.01	64.01	66.0	63.87	63.8
Turtipar	Uttar Pradesh			1998-08-28	Falling 15:00	Falling 18/7/2019 08:00:00

### 2.1.3 Normal Flood Situation

River	District	Warning Level (m)	Danger Level (m)	Highest flood Level (m)	Actual level	Forecasted Level
				Date	Trend	Trend
Station	State				Time	Date
						Time
Gaurang	Kokrajhar	41.85	42.85	43.6	41.84	41.75
Kokrajhar	Assam			2015-08-20	Falling 15:00	Falling 17/7/2019 18:00:00
Barak	Cachar	18.83	19.83	21.84	18.62	18.61
Annapurnaghat	Assam			1989-08-01	Falling 15:00	Falling 17/7/2019 19:00:00
Buridehing	Dibrugarh	101.11	102.11	104.16	101.07	100.75
Chenimari (Khowang)	Assam			2015-09-02	Falling 15:00	Falling 18/7/2019 06:00:00
Manas	Barpeta	47.81	48.42	50.08	47.5	
Manas N H Crossing	Assam			1984-09-15	Falling 15:00	
Ranganadi	Lakhimpur	93.81	94.81	95.92	93.72	
Ranganadi NT Road crossing	Assam			1979-07-02	Falling 15:00	
Gandak	Muzaffarpur	53.41	54.41	55.41	53.37	53.41
Rewaghat	Bihar			1986-09-17	Steady 12:00	Steady 18/7/2019 04:00:00
Gandak	Kushinagar *	95.0	96.0	97.5	94.85	
Khadda	Uttar Pradesh			2002-07-23	Falling 14:00	
Teesta	Jalpaiguri	85.65	85.95	89.3	85.48	
DOMOHANI	West Bengal			1968-10-04	Steady 15:00	
Raidak-I	Koch Bihar	34.22	35.3	36.5	34.16	34.1
Tufanganj	West Bengal			2017-08-12	Falling 15:00	Falling 17/7/2019 18:00:00

### 2.1.4 Reservoir

Name of River	Flood Forecasting Site	District	State	FRL (m)	MWL (m)	Actual Level			Forecast			
						Level (m)	Time	Trend	Average Inflow (Cumec)	Trend	Date	Time
Krishna	Almati Dam	Bijapur	Karnataka	519.6	519.6	518.38	12:00	Rising	1415.0	Falling	18/7/2019	08:00:00

## **2.2 Flood Situation as per actual/ forecasted rainfall situation**

IMD has forecasted Heavy to Very Heavy rain at a few places with isolated Extremely Heavy rainfall in Kerala & Mahe Division of Puducherry and Coastal Karnataka from 19<sup>th</sup> to 21<sup>st</sup> July and advisory for the same rainfall to continue on 22<sup>nd</sup> and 23<sup>rd</sup> July also. Heavy to very heavy rainfall in Punjab, Haryana, Chandigarh & Delhi on 17<sup>th</sup> and then slowly reduce by 20<sup>th</sup> July 2019. Heavy to very heavy rain has been forecasted for Kerala and Mahe on 17<sup>th</sup> and 18<sup>th</sup> July, South Interior Karnataka and Ghat areas of Tamilnadu during 19<sup>th</sup> to 21<sup>st</sup> July 2019. There is general forecast for increase of rainfall in Southern Peninsular India and over Odisha and Chhattisgarh from tomorrow onwards.

### **2.2.1 Assam**

Most of the Rivers in Brahmaputra & Baraka Basin are flowing in Severe to Above Normal Flood Situation in Arunachal Pradesh, Assam, Sub-Himalayan West Bengal. Tributaries of Brahmaputra have started falling and Main River Brahmaputra has started falling upto Guwahati and is in Steady Condition from Goalpara to Dhubri. River Brahmaputra at Dhubri is flowing in Extreme Flood Situation from 1800 hrs of 17<sup>th</sup> July 2019 and is likely to slowly fall. The situation is likely to continue for another 2-3 days and then slowly recede as the rainfall activity has been forecasted to reduce.

### **2.2.2 Bihar**

Rivers Bagmati, Adhwara Group, KamlaBalan, Kosi and Mahananda continue in Severe to Above Normal Flood Situation. This is likely to continue for another 2-3 days and then slowly recede as rainfall activity has been forecasted to reduce.

### **2.2.3 Kerala**

Due to the rainfall predicted, there is likelihood of rapid rise in Water Levels in rivers in Kerala in the basins Periyar, Chalakudi, Bharathapuzha, Valapatnam and Kabini in the districts of Idukki, Ernakulam, Thrissur, Palakkad, Malapuram, Wynadu and Kannur. Since most of the dams in these rivers are having very low storage, the rainfall in the catchment upstream of these dams will help improve the storage levels of the reservoirs. However, in the downstream of the dams in the river due to precipitation from free catchment, there is likelihood of rapid rise in Water Levels for which necessary precautions have to be taken.

### **2.2.4 Karnataka**

Due to the rainfall predicted, there is likelihood of rapid rise in Water Levels in rivers in Karnataka in the basins of Cauvery, Tunga, Bhadra and West Flowing rivers such as Netravathi in the districts of Kodagu, Chikmagalur, Hassan, Shivamogga, Dakshina Kannada, Udupi and Uttara Kannada . Since most of the dams in these rivers are having very low storage, the rainfall in the catchment upstream of these dams will help improve the storage levels of the reservoirs. However, in the downstream of dam in the river due to precipitation from free catchment, there is likelihood of rapid rise in Water Levels for which necessary precautions have to be taken.

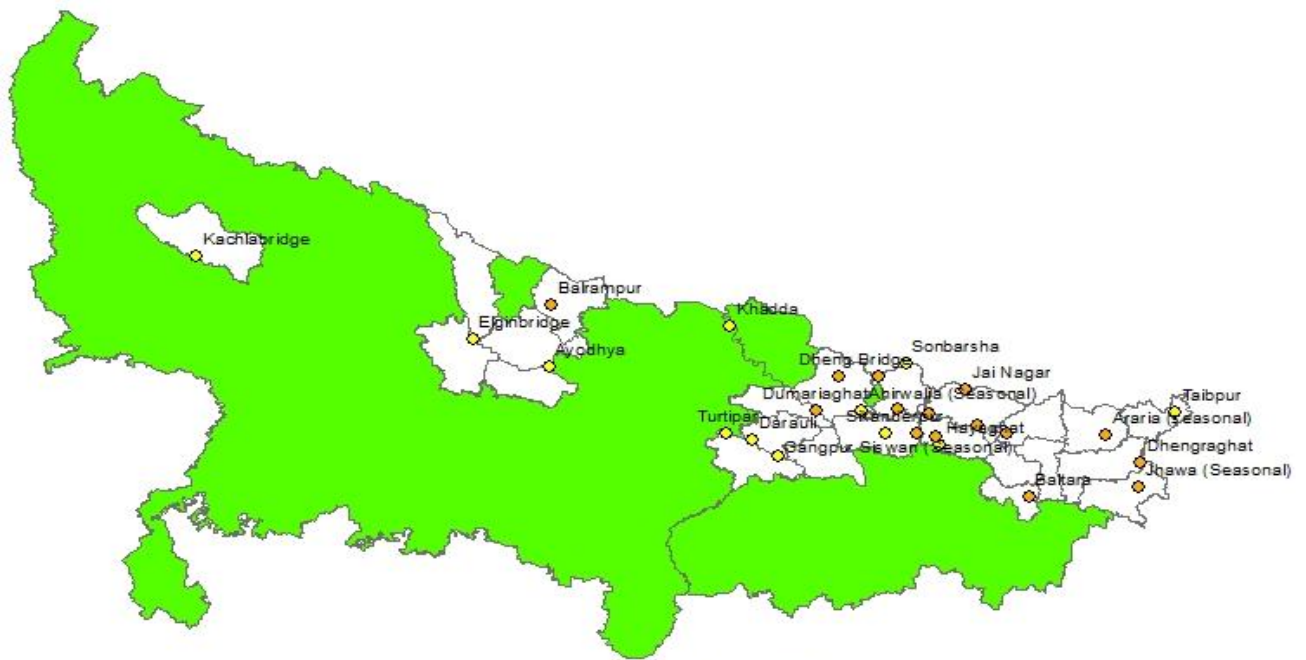
### **2.2.5 Tamilnadu**

Due to the rainfall predicted, there is likelihood of rapid rise in Water Levels in rivers in Hilly regions of Coimbatore, Nilgiris, Theni, Dindigul, Tirunelveli and Kanyakumari in the basins of Bhavani, Amaravathy, Moyar, Vaigai, and Tamraparini. Since most of the dams in these rivers are having very low storage, the rainfall in the catchment upstream of these dams will help improve the storage levels of the reservoirs.

### **2.2.6 Punjab**

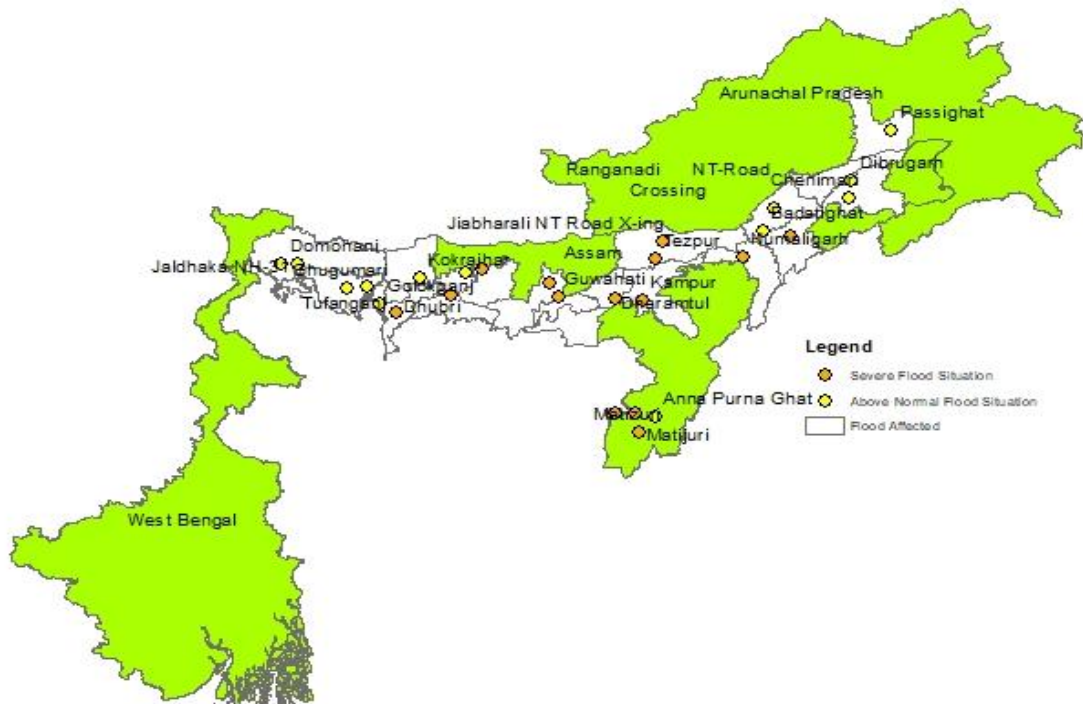
As per media reports, there have been floods in River Ghaggar in Patiala District . There has also been continuous rain. In Bhatinda and its neighbouring areas during the last 3 days leading to flood like situation in many of the rivulets

Map showing Flood Situation in UP & Bihar and Brahmaputra & Barak Basin on 15.07.2019



**Legend**

- ◆ Severe Flood Situation
- ◆ Above Normal Flood Situation
- Flood Affected
- Normal



**Legend**

- ◆ Severe Flood Situation
- ◆ Above Normal Flood Situation
- Flood Affected

**Flood Affected Districts include:**

- Bihar:** Araria, Sitamarhi, Gopalganj, Kishanganj, Purnia, Madhubani, Katihar, Muzaffarpur.
- Assam:** Dibrugarh, Lakhimpur, Jorhat, Golaghat, Sonitpur, Nagaon, Morigaon, Kamrup, Barpeta, Goalpara, Dhubri, Cachar, Hailakhandi, Karimganj
- Arunachal Pradesh:** East Siang
- West Bengal & Sikkim:** Jalpaiguri, Coochbehar, Maldah
- Uttar Pradesh:** Barabanki, Faizabad, Balrampur, Kushalnagar, Ballia, Budaun.

Map showing Flood Situation over the Country on 17<sup>th</sup> July 2019



Flood Alert based on Rainfall Forecast issued by IMD for next 5 days

**Flood Alerted for next 5 days**

**Kerala:** Idukki, Ernakulam, Thrissur, Palakkad, Wynad

**Karnataka:** Chikmagaluru, Hassana, Kodagu, Shivamogga, Dakshina Kannada, Udupi and Uttara Kannada

**Tamilnadu:** Nilgiris, Coimbatore, Theni, Dindigul, Tirunelveli and Kanyakumari