



**Central Water Commission**  
**Daily Flood Situation Report cum Advisories**  
 20-07-2019

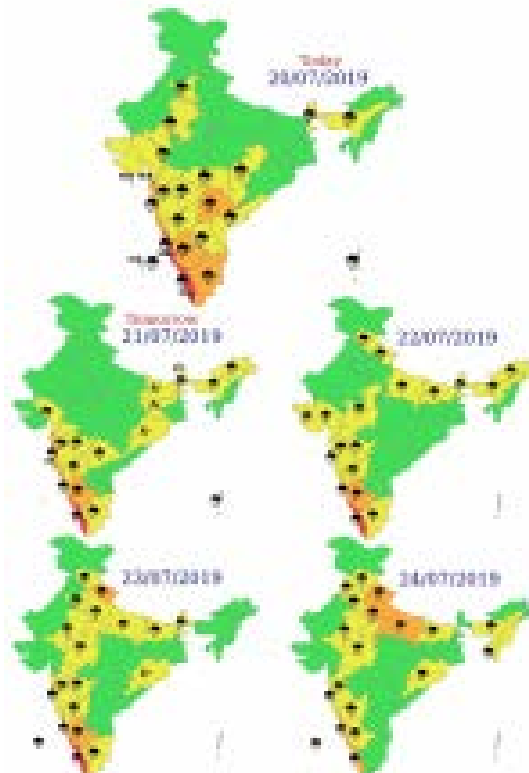
**1.0 IMD information**

**1.1 Rainfall Situation**

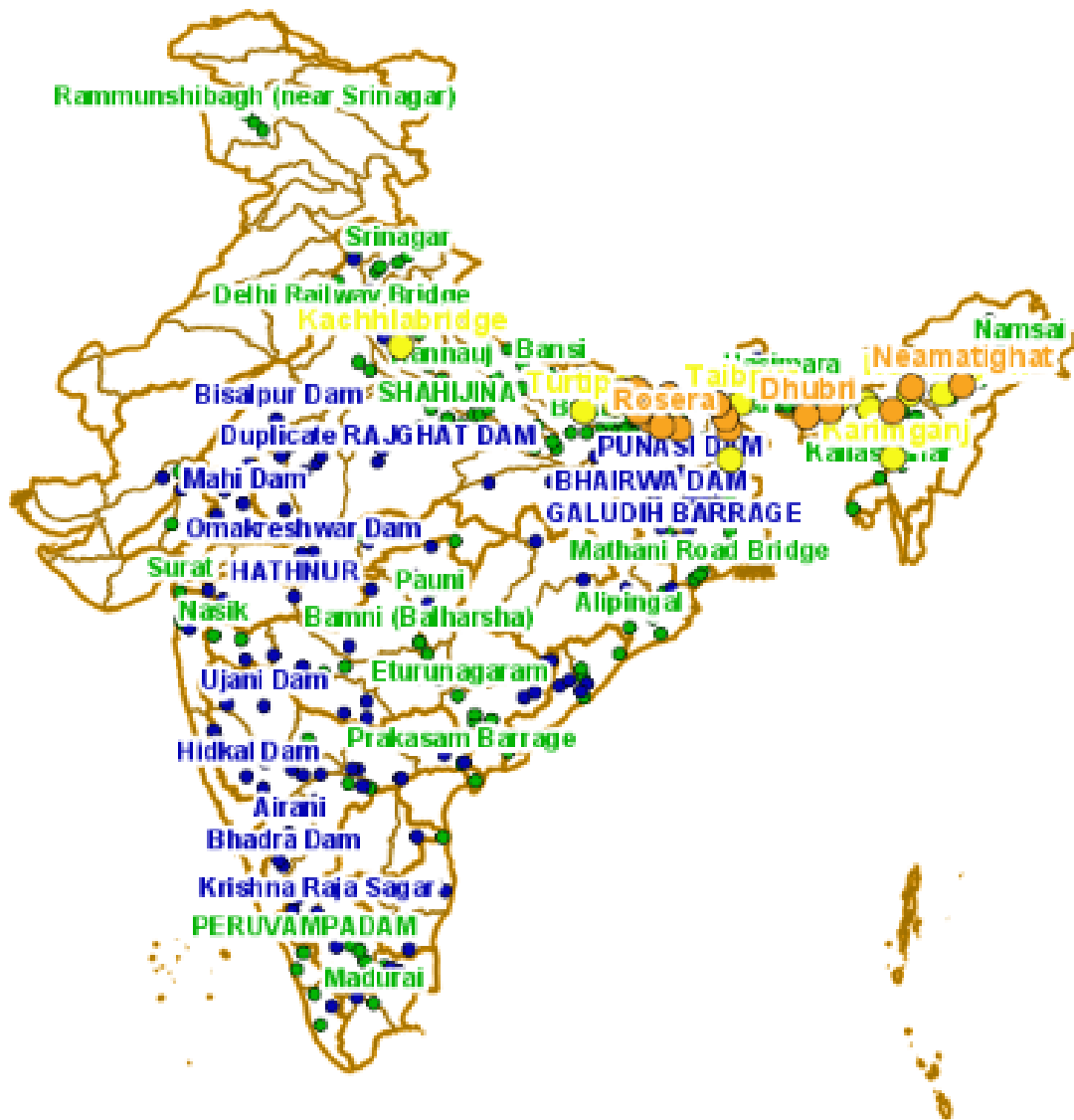
**1.1.1 Amount of rainfall recorded at 0830 hours IST of today (7 cm or more) as per IMD**

Name of Place (State)	Rainfall (in cm)
Kudulu (Kerala)	31
Hosdurg (Kerala)	28
Kannur (Kerala)	22
Mahe (Puducherry)	21
Talacherry & Vadakara (Kerala)	19 each
Taliparamba (Kerala)	17each
Tadwai & Kamareddy (Telangana)	14 each
Bodhan, Yellareddy, Pappannapet & Dharpalle (Telangana), Panambur (Karnataka), Ponnani & Quilandy (Kerala)	13 each
Ranjal, Jainoor & Navipet (Telangana), Agumbe (Karnataka), Kochi (CIAL) (Kerala)	12 each
Vengurla (Maharashtra), Yedpalle & Nagareddypet (Telangana), Honavar, Karkala & Kota (Karnataka), Enamackal, Idukki and Kozhikode (Kerala)	11 each
Lunglei (Mizoram), Mani, Mangalore AP & Kundapur (Karnataka), Chalakudi, Irrikur, Kottayam, Peermade & Chertala (Kerala)	10 each
Nizamsagar, Bheemgal, Makloor, Lingampet, Ghanpur & Naryankhed (Telangana), Tiruvuru, Guntur & Owk (Andhra Pradesh), Mudibidre (Karnataka), Ariyalur (TN), Perumbavur (Kerala)	9 each
Dholai (Assam), Goa (Goa), Nandipet, Sadashivnagar, Pitlam, Armoor, Vemulawada & Bheemadevarpalle (Telangana), Veeraghattam (Andhra Pradesh), Manki, Kollur & Shirali (Karnataka), Pattambi, Karipur & Aluva (Kerala)	8 each
Salempur (Uttar Pradesh), Domakonda, Nizamabad, Utnur, Miryalguda, Jagrampalle & Velpur (Telangana), Santhamagalur & Prodattur (Andhra Pradesh), Gingee & Valparai (Tamilnadu), Mangaluru, Bidar, Aurad & Bhagamandala (Karnataka), Irinjalakuda, Punalur, Kozha & Piravom (Kerala)	7 each

**1.1.2 Rainfall forecast for next 5 days issued on 20<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

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)	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))	18
<b>C</b>	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	16
<b>D</b>	Normal Flood Situation with Forecast: (Site (s) where water level is below Warning Level but Forecast Issued)	7
Total number of sites above Warning Level ( A+B+C)		41
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)		5

2.1.2 Severe Flood Situation

River	District	Warning Level (m)	Danger Level (m)	Highest flood Level (m)	Actual level		Forecasted Level	
					Trend	Trend	Trend	Trend
Station	State			Date	Time	Date	Time	
Mahananda	Araria	46.0	47.3	49.4	47.51	47.45		
Araria	Bihar			2017-08-14	Steady	20/7/2019	Falling	20:00:00
Bagmati	Sitamarhi	69.1	70.1	73.0	70.3	70.0		
Dheng Bridge	Bihar			2017-08-13	Rising	21/7/2019	Falling	06:00:00
Kopili	Marigaon	55.0	56.0	58.09	56.46	56.48		
Dharamtul	Assam			2004-07-21	Falling	20/7/2019	Falling	21:00:00
Brahmaputra	Dhubri	27.62	28.62	30.36	29.87	29.78		
Dhubri	Assam			1988-08-28	Falling	20/7/2019	Falling	21:00:00
Brahmaputra	Goalpara	35.27	36.27	37.43	36.47	36.22		
Goalpara	Assam			1954-07-31	Falling	21/7/2019	Falling	06:00:00
Brahmaputra	Jorhat	84.04	85.04	87.37	85.28	85.22		
Neamatighat	Assam			1991-07-11	Steady	21/7/2019	Falling	09:00:00
Kosi	Khangaria	32.85	33.85	36.4	34.72	34.67		
Baltara	Bihar			1987-08-15	Steady	21/7/2019	Falling	06:00:00
Bagmati	Muzaffarpur	47.68	48.68	50.01	49.02	49.0		
Benibad	Bihar			2004-07-12	Falling	21/7/2019	Falling	06:00:00
Mahananda	Purnia	34.65	35.65	38.2	35.84	36.0		
Dhengrghat	Bihar			2017-08-14	Steady	21/7/2019	Steady	06:00:00
Adhwara	Darbhanga	45.94	46.94	49.52	47.47	47.45		
Ekmighat	Bihar				Steady	21/7/2019	Steady	06:00:00
Bagmati	Darbhanga	44.72	45.72	48.96	46.28	46.2		
Hayaghat	Bihar			1987-08-14	Steady	21/7/2019	Steady	06:00:00
Kamla	Madhubani	66.75	67.75	71.35	68.09	68.0		
Jainagar	Bihar				Rising	20/7/2019	Falling	16:00:00
Mahananda	Kathar	30.4	31.4	34.07	32.0	31.9		
Jhawa	Bihar			2017-08-14	Falling	20/7/2019	Falling	22:00:00
Adhwara	Darbhanga	49.0	50.0	52.99	50.03	50.0		
Kamtaul	Bihar			1987-08-12	Rising	21/7/2019	Steady	06:00:00
Burhi Gandak	Purba Champaran	62.2	63.2	67.09	63.33	63.2		
Latbeglghat	Bihar			1975-07-30	Falling	21/7/2019	Falling	06:00:00
Burhi Gandak	Samastipur	41.63	42.63	46.35	43.33	43.62		
Rosera	Bihar			1987-08-16	Rising	21/7/2019	Rising	10:00:00
Bagmati	Sitamarhi	52.73	53.73	58.15	55.24	55.0		
Runisaidpur	Bihar			2017-08-14	Falling	21/7/2019	Falling	06:00:00
Burhi Gandak	Muzaffarpur	51.53	52.53	54.29	52.66	52.7		
Sikandarpur (Muzzafarpur)	Bihar			1987-08-15	Steady	21/7/2019	Falling	06:00:00

### 2.1.3 Above Normal

River	District	Warning Level (m)	Danger Level (m)	Highest flood Level (m)	Actual level		Forecasted Level	
					Trend	Trend		
Station	State			Date	Time	Date	Time	
Burhi Gandak	Purba Champaran			61.17	59.04	58.93		
Ahinwalla	Bihar	58.62	59.62		Falling	21/7/2019		
					15:00	06:00:00		
Gandak	Gopalganj			64.1	61.58	61.58		
Dumarlaghat	Bihar	61.22	62.22		Steady	21/7/2019		
				2017-08-17	15:00	06:00:00		
Ganga	Budaun			162.79	161.3	161.2		
Kachhiabridge	Uttar Pradesh	161.0	162.0		Falling	21/7/2019		
				2010-09-24	14:00	00:00:00		
Mahananda	Kishanganj			67.22	65.43	65.5		
Talpur	Bihar	65.0	66.0		Rising	20/7/2019		
					15:00	20:00:00		
Beki	Barpeta			46.2	44.78	44.8		
Beki Road bridge	Assam	44.1	45.1		Falling	20/7/2019		
				2000-08-04	14:00	18:00:00		
Brahmaputra	Kamrup			51.46	49.18	48.8		
Guwahati(D.C.Court)	Assam	48.68	49.68		Falling	21/7/2019		
				2004-07-21	14:00	06:00:00		
Kushiyara	Karimganj			16.57	14.16	14.25		
Karimganj	Assam	13.94	14.94		Rising	20/7/2019		
				2010-06-10	14:00	18:00:00		
Jabharali	Sonitpur			78.5	76.99			
NT Road Crossing Jia-Bharali	Assam	76.0	77.0		Rising			
				2007-07-26	14:00			
Dhansiri (South)	Golaghat			80.16	76.98	76.95		
Numaligarh	Assam	76.42	77.42		Falling	20/7/2019		
				2018-08-03	14:00	16:00:00		
Puthimari	Kamrup			55.08	51.52	51.45		
Puthimari NH Rd Xing	Assam	50.81	51.81		Steady	20/7/2019		
				2008-08-31	14:00	19:00:00		
Brahmaputra	Sonitpur			66.59	64.84	64.65		
Tezpur	Assam	64.23	65.23		Rising	21/7/2019		
				1988-08-27	14:00	09:00:00		
Kamalabalan	Madhubani			53.01	49.9	49.9		
Jhanjharpur	Bihar	49.0	50.0		Falling	20/7/2019		
				2004-07-10	15:00	16:00:00		
Burhi Gandak	Samastipur			49.38	46.01	46.21		
Samastipur	Bihar	45.02	46.02		Rising	21/7/2019		
				1987-08-15	14:00	02:00:00		
Ghagra	Balia			66.0	63.3	63.22		
Turtipar	Uttar Pradesh	63.01	64.01		Falling	21/7/2019		
				1998-08-28	14:00	08:00:00		
Ganga	Murshidabad			25.14	21.52	21.55		
Farakka(FF)	West Bengal	21.25	22.25		Steady	20/7/2019		
				1998-09-07	12:00	20:00:00		
Teesta	Jalpaiguri			89.3	85.68	85.65		
DOMOHANI	West Bengal	85.65	85.95		Falling	20/7/2019		
				1968-10-04	14:00	16:00:00		
Ghagra	Bara Banki			107.616	105.05	104.87		
Elginbridge	Uttar Pradesh	105.07	106.07		Falling	21/7/2019		
				2014-08-16	14:00	08:00:00		

### 2.1.4 Reservoir

Reservoir/Barrage receiving Inflow more than the Threshold limit												
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
Periyar	Edamalayyar Dam	Ernakulam	Kerala	169.0		128.82	10:00	Rising	200.0	Steady	21/7/2019	06:00:00
Periyar	Idukki Dam	Idukki	Kerala	732.43		703.31	10:00	Rising	350.0	Steady	21/7/2019	06:00:00
Bhadra	Bhadra Dam	Chikmagalur	Karnataka	657.75	657.75	642.6708	08:00	Rising	180.0	Rising	21/7/2019	08:00:00
Kabini	Kabini Dam	Mysore	Karnataka	696.16		691.8351	08:00	Rising	240.0	Rising	21/7/2019	08:00:00
Tunga	Upper Tunga Project	Shimoga	Karnataka	588.24	588.24	588.2396	08:00	Steady	450.0	Rising	21/7/2019	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 21<sup>st</sup> to 24<sup>th</sup> July and slow reduction after 25<sup>th</sup> July. Heavy to Very Heavy rainfall at isolated places has been forecasted in Telangana, South Interior Karnataka and Western Ghat Areas of Tamilnadu. Slow increase in rainfall has been predicted for Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Assam, Meghalaya and Arunachal Pradesh from 22<sup>nd</sup> July 2019 onwards.

### 2.2.1 Assam

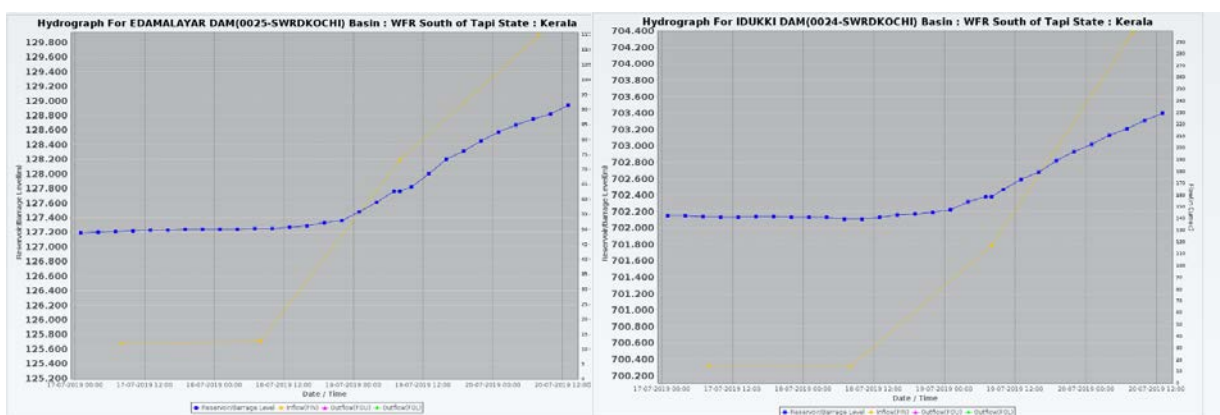
There has been significant fall in river levels in most of the river in Brahmaputra and Barak Basin. Since no rain is predicted for next 3 days, the falling level is likely to continue for another 3-4 days.

### 2.2.2 Bihar

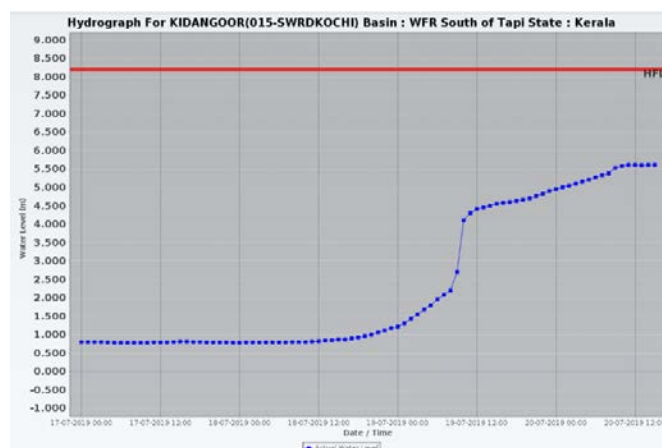
Rivers Gandak, Burhi Gandak, Bagmati, Adhwara Group, KamlaBalan, Kosi and Mahananda continue in Severe to Above Normal Flood Situation with falling trend. This is likely to continue for another 2-3 days and then slowly recede as no rainfall activity has been forecasted.

### 2.2.3 Kerala

Due to the ongoing rainfall for the past two days, many of the rivers have risen significantly during the last 48 hours. Inflows into Idukki and Edamalar Dam in Periyar Basin have also increased. Hydrographs of the two dams are enclosed.



There is likelihood of rapid rise in Water Levels in rivers in Kerala in the basins Pamba, Periyar, Chalakudi, Bharathapuzha, Valapatnam and Kabini in the districts of Idukki, Pattanamthitta, 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. As per the latest trends, it is seen that River Meenachil at Kidangoor in Kottayam District has started rising due to ongoing rainfall activity. Hydrograph is attached.



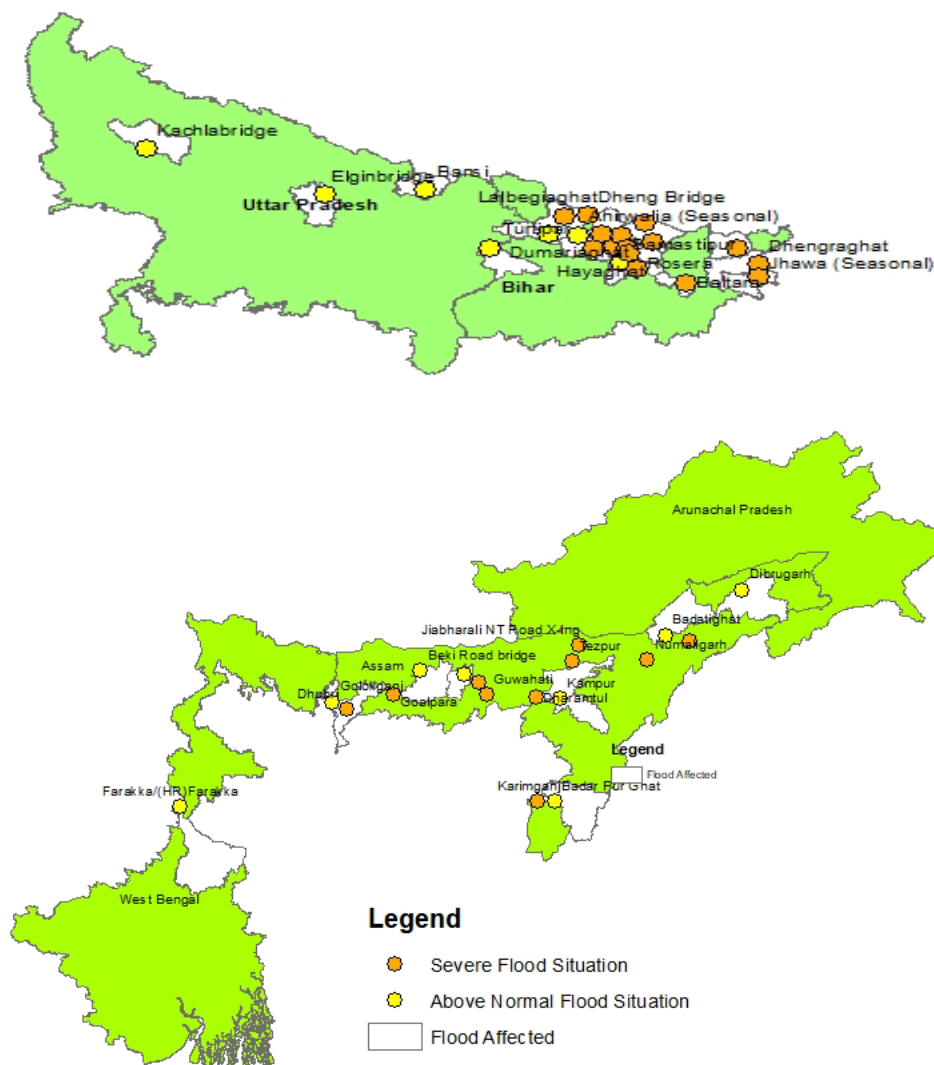
## 2.2.4 Karnataka

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. If rainfall is continuing for such intensity in these districts and in their catchment areas in Kerala then dams in Bhavani and Amaravathy may fill up fast. Accordingly project authorities should take precaution.

Map showing Flood Situation in UP & Bihar and Brahmaputra & Barak Basin on 19.07.2019

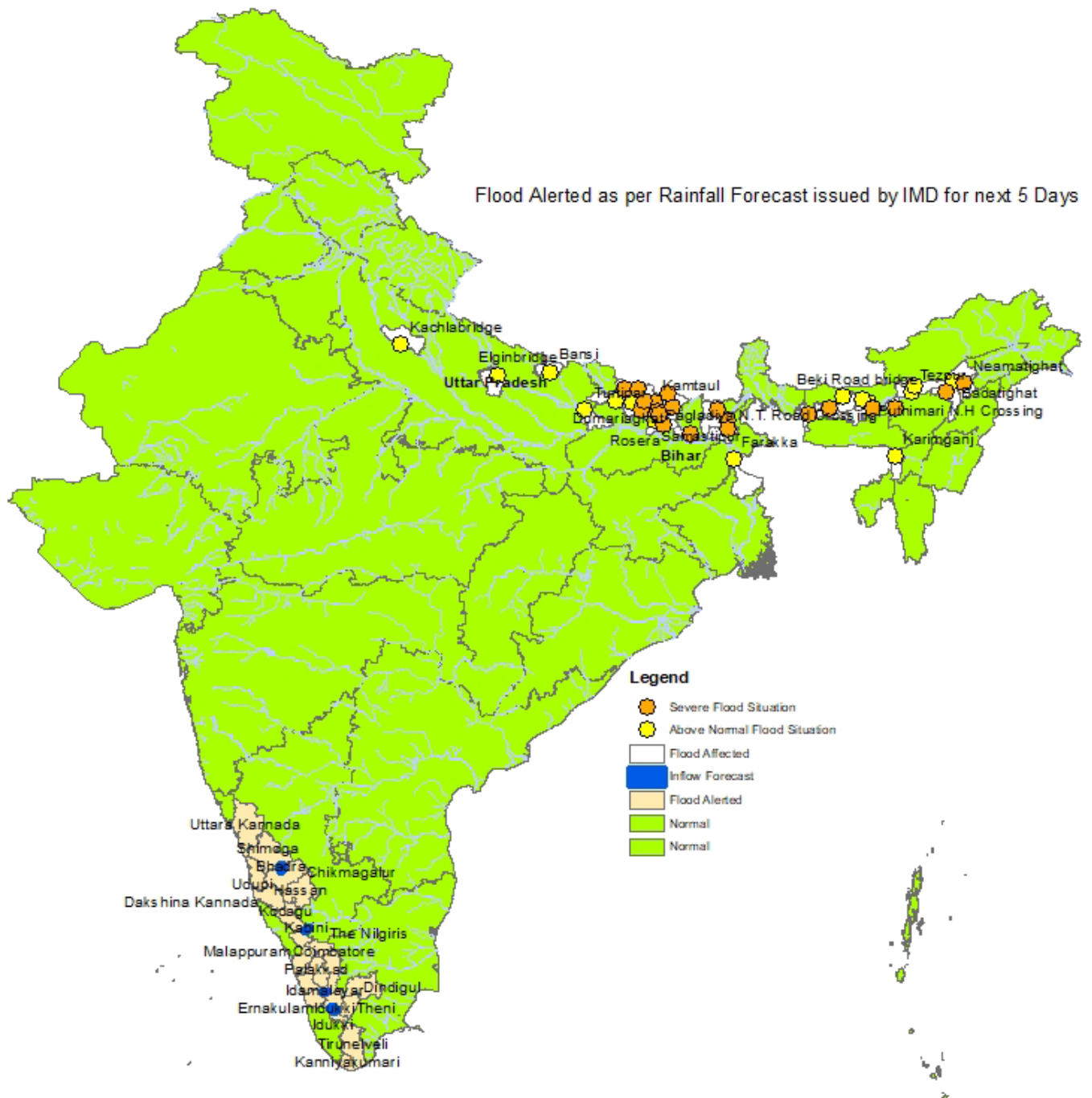


### Flood Affected Districts include:

**Bihar:** Araria, Sitamarhi, Gopalganj, Kishanganj, Purnia, Madhubani, Katihar, Muzaffarpur.  
**Assam:** Dibrugarh, Lakhimpur, Jorhat, Golaghat, Sonitpur, Nagaon, Morigaon, Kamrup, Barpeta, Goalpara, Dhubri, Cachar, Hailakhandi, Karimganj  
**Uttar Pradesh:** Barabanki, Faizabad, Balrampur, Kushinagar, Ballia, Badaun.



Map showing Flood Situation over the Country on 19<sup>th</sup> July 2019



**Flood Alerted for next 5 days**

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

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

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