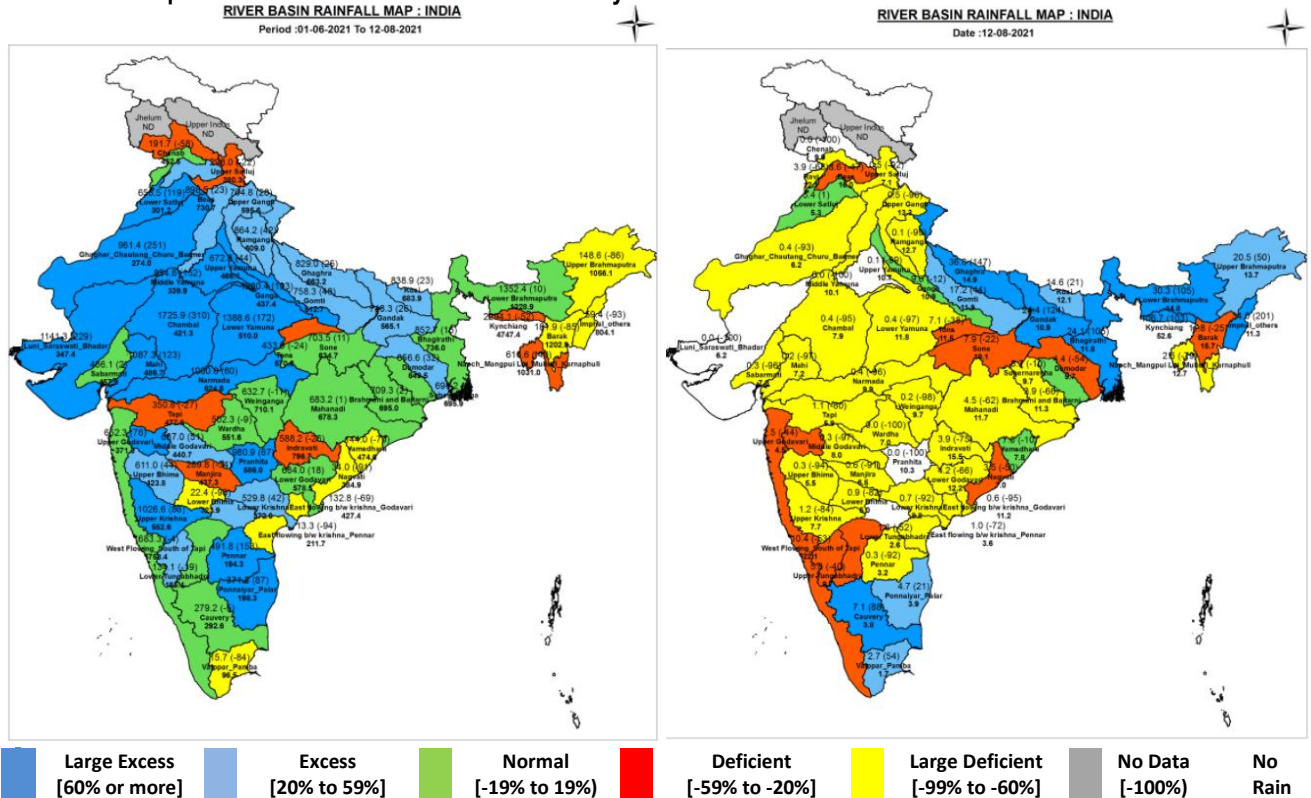




**Central Water Commission**  
**Daily Flood Situation Report cum Advisories**  
**12-08-2021**

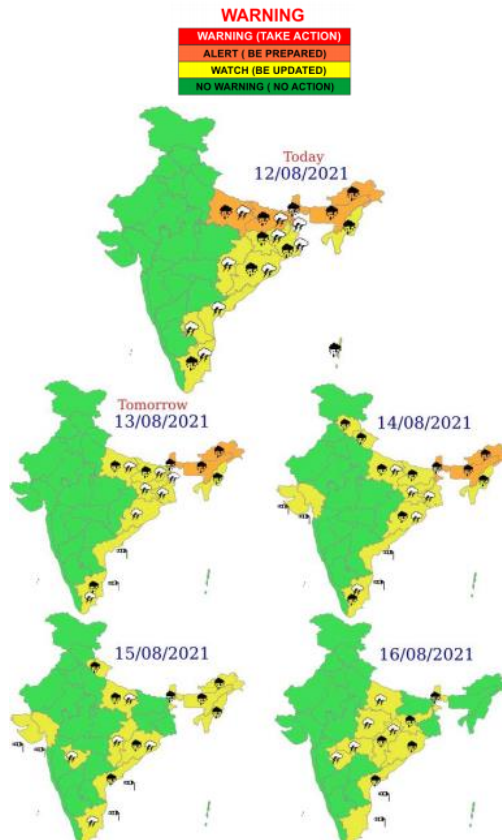
**1.0 Rainfall Situation**

**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 12<sup>th</sup> August 2021 (Midday) by IMD**



- Extremely Heavy Rainfall/ Very Heavy Rainfall over Arunachal Pradesh, Assam & Meghalaya and Sub-Himalayan West Bengal during 12th-14th August and Bihar and East Uttar Pradesh on 12th August.

## 2.0 Flood Situation and Advisories

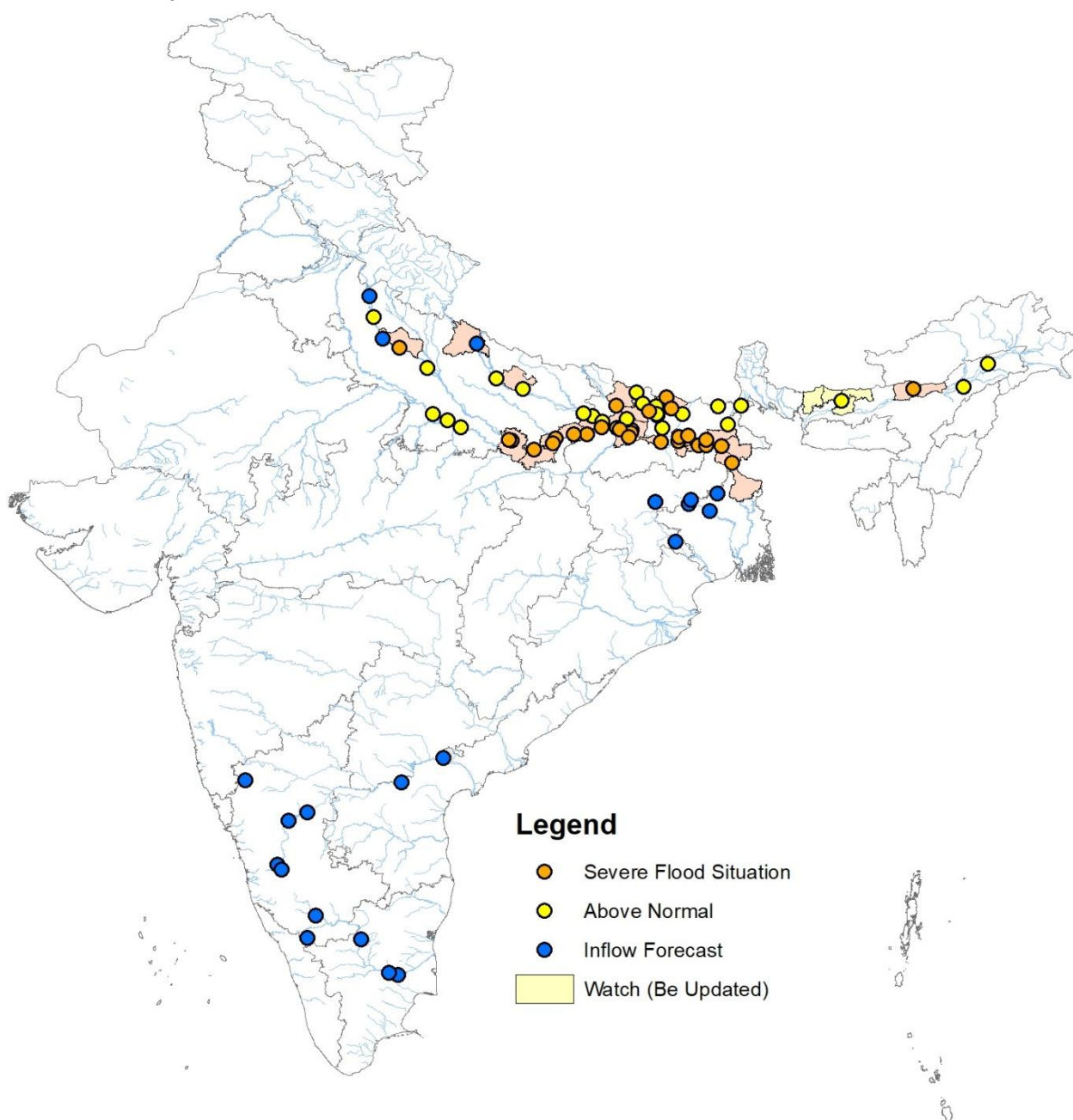
### 2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 12<sup>th</sup> August, 2021, 27 Stations (16 in Bihar, 8 in Uttar Pradesh and 1 each in Assam, Jharkhand & West Bengal) are flowing in Severe Flood Situation and 26 stations (15 in Bihar, 8 in Uttar Pradesh and 3 in Assam) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 22 Barrages & Dams (7 in Karnataka, 4 in Jharkhand, 3 each in Andhra Pradesh, Uttar Pradesh & Tamil Nadu and 2 in West Bengal).

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>27</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>26</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>22</b>

Details are given at link: [http://www.cwc.gov.in/sites/default/files/cfcrcwcdfb-12.08.2021-2\\_5.pdf](http://www.cwc.gov.in/sites/default/files/cfcrcwcdfb-12.08.2021-2_5.pdf)

#### 2.1.1 Flood Situation Map



## 2.2 CWC Advisories

### 2.2.1 Ganga basin- Uttar Pradesh, Bihar, Jharkhand & West Bengal

Due to combined effect of river runoff from Yamuna and northern tributaries of Ganga, main **Ganga** is flowing in severe flood situations from districts **Prayagraj (U.P)** to **Murshirabad (West Bengal)**. From Prayagraj to Varanasi Ganga river is in falling to steady state, where as from Varanasi and downstream, it is flowing with rising trend. Alert may be kept in districts **Prayagraj, Varanasi, Ghazipur (U.P), Buxar, Patna, Munger, Bhagalpur (Bihar), Sahibganj (Jharkhand) & Malda, Murshirabad (West Bengal)**. Passing peak inflow will further increase the water level of main Ganga stem in Bihar in **next 2 to 3 days**.

In district Patna water levels in Ganga river is rising at the rate of 0.7 cm/hr and at site Dighaghat (CWC site) it is expected to reach 51.65 m by 08:00 hrs of 13.08.2021. Ganga at CWC site Hathidah is expected to cross HFL by morning of 13<sup>th</sup> August. Expected water level at 08:00 AM is 43.24 m.

Middle reaches of Ganga river in districts such as **Hapur, Badaun & Farrukhabad (Uttar Pradesh)** are in above normal flood situations. River **Ghaghra** in **Barabanki, Ayodhya & Ballia (Uttar Pradesh)** and **Siwan & Saran (Bihar)** districts are flowing in Above Normal Flood Situation. River Sone & Punpun are flowing in severe flood situation in Patna.

IMD has forecasted heavy rains over river Mahananda, Gandak, and Rapti in next 24 hrs. Alert may be kept in districts such as **Balarampur, Basti, Sant Kabir Nagar (U.P), Paschim Champaran, Arariya, Kishanganj & Purnia (Bihar)**. Currently the flood originated in tributaries of Yamuna last week is passing through Ganga and it may take another 4 to 5 days to pass through completely; in such situation further runoff created due to intense rainfall in the catchments of north tributaries of Ganga may not stream into Ganga easily. The flooding situation in districts such as **Ballia (U.P) & Prayagraj, Saran, Bhagalpur, Katihar (Bihar)** may get accentuated.

Currently River **Kosi** in **Supaul, Khagaria & Katihar** districts, River **Bagmati** in **Sitamarhi, Muzzafarpur & Darbhanga** districts, River **Gandak** in **Gopalganj & Vaishali** districts, River **Adhwa** in **Darbhanga** District, Rivers **Kamla & Kamlabalan** in **Madhubani** district, River **Burhi Gandak** in **Samastipur & Khagaria** districts, River **Parman** in **Araria**, River **Mahananda** in **Purnia** district are flowing in severe to above normal flood situations.

### 2.2.2 Yamuna and its Tributaries - Uttar Pradesh

Hydrological situation in Yamuna are gradually returning back to normal. In main Yamuna, water levels in districts such as **Jalaun, Hamirpur & Banda** are in above normal flood situation with decreasing trend and in **Prayagraj** it is flowing in severe flood situation with decreasing trend.

Panchana (Karauli dist.) and RanapratapSagar (Chittorgarh dist.) dams of Rajasthan are having high storages; hence releases from these dams may be done as per SOP by informing downstream Districts of lower riparian states.

### 2.2.3 Brahmaputra, Barak and its tributaries – Assam, West Bengal, Sikkim & Meghalaya

IMD has predicted very heavy rains in the catchment of Brahmaputra and its tributaries in 3 to 4 days, hence, alert may be kept in West Bengal, Assam, Sikkim, Meghalaya, Arunachal Pradesh & Nagaland mainly in districts **Kokrajhar, Chirang, Barpeta (Assam)** and **South – West Khasi hills & East Khasi hills, South & East Garo hills, East & West Jaintia hills (Meghalaya)**, whole **Sikkim** state, **Changlang, Papumpara, Lower Subansiri, Upper Siang, Lower Bibang Valley (Arunachal Pradesh) & Phek (Nagaland)**. Alert to be kept in the basins of Gurang, Manas, Teesta, Raidak, Jaldhaka, Rangpochu, Rangit, Torsa, Beki, Pagladiya, Puthimari rivers and in all other tributaries of Brahmaputra.

Currently river JiaBharali in **Sonitpur** district is flowing in severe flood situation. River **Beki** in **Barpeta** district, river Brahmaputra in Dibrugarh & Jorhat districts are flowing above normal flood situation.

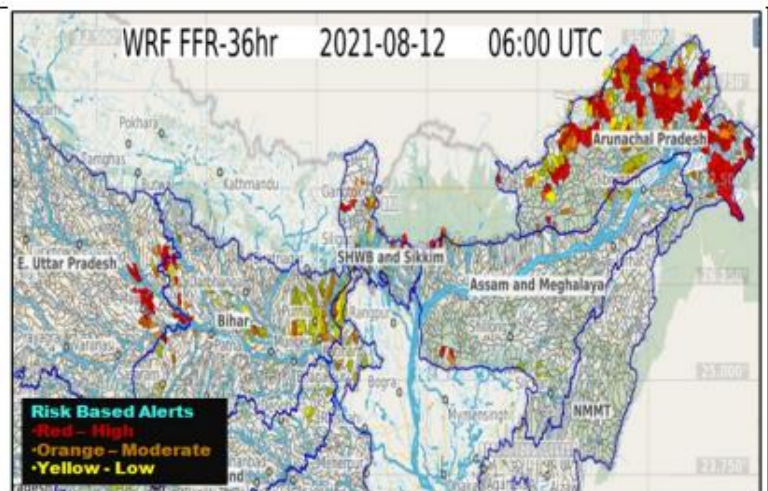
## 2.3 Flash Flood Guidance

IMD has issued flash flood risk over few watersheds and neighbourhoods of **East Uttar Pradesh, Bihar adjoining Sub-Himalayan West Bengal (SHWB) & Sikkim, Arunachal Pradesh met subdivisions**.

### 36 hours Flash Flood Risk (FFR) Outlook Till 2330 IST of 13.08.2021:

**Moderate Risk** likely over few watersheds and neighborhoods of **East UP, Bihar adjoining SHWB & Sikkim, Arunachal Pradesh met subdivisions** in next 36 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as depicted in map due to expected rainfall occurrence in next 36 hours.





### 3.0 Storage Position in Dams where Inflow forecast is being issued by CWC as on 12<sup>th</sup>August2021

Reservoirs shown in red are having gross storage capacity more than 80% and those in orange are having gross storage greater than 60%. Close watch is to be maintained at these reservoirs whenever Very Heavy Rainfall (Orange) and Extremely Heavy Rainfall (Red) warning in next 120 hours are given below:

Storage above 85%	
Storage above 60%	

QPF categories (mm)	0	0.1-10	11-25	26-37	38-50	51-75	76-100	>100
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#	Reservoir/Dams	River/Sub-Basin /Basin	State	US/ DS District	Rainfall situation				
					Day 1	Day 2	Day 3	Day 4	Day 5
1	Srisalam	Krishna/Lower Krishna/Krishna	AP	JogulambaGadwal (Telangana), Kurnool(AP)/Nalgonda(Telangana), Guntoor (AP)					
2	NagarjunaSagar	Krishna/Lower Krishna/Krishna	AP	Nalgonda(Telangana), Guntoor (AP)					
3	Musi	Musi/Lower Krishna/ Krishna	Telangana	Nalgonda					
4	Sri padaYellampally	Godavari/Middle Godavari/Godavari	Telangana	Mancherial/ JaishankarBhupalpally					
5	Sriramsagar Project	Godavari/Middle Godavari/Godavari	Telangana	Nanded (Mah)/Nirmal (Telangana)					
6	Kaddam	Kaddam/Middle Godavari/Godavari	Telangana	Adilabad, Nirmal/ Mancherial					
7	PD Jurala	Krishna/ Middle Krishna/Krishna	Telangana	Raichur(Kar)/Kurnool(Andhra Pradesh),JogulambaGadwal(Telangana)					
8	Singur	Manjira/Manjira/Godavari	Telangana	Bidar(Kar)/Sangareddy(Telangana)					
9	Panchet	Damodar/Damodar East/ Ganga	Jharkhand	Dhanbad, Jamtara (Jharkhand)/ Puruliya, PaschimBardhaman, Bankura (WB)					
10	Maithon	Barakar/Barakar East/Ganga	Jharkhand	Dhanbad, Jamtara (Jharkhand)/ Puruliya, PaschimBardhaman, Bankura (WB)					
11	Kabini	Kabini/Kabini/ Cauvery	Karnataka	Wayanad (Kerala)/ Mysuru (Karnataka)					
12	Harangi	Cauvery/Upper Cauvery/Cauvery	Karnataka	Kodagu/Mandya					
13	Karanja	Karanja/Manjira/Godavari	Karnataka	Bidar (Kar), Vikarabad(Telangana)/Bidar(Kar)					
14	Almatti	Krishna/Upper Krishna/Krishna	Karnataka	Kolhapur(Mah)/ Bagalkote(Kar)					
15	Narayanpur	Krishna/Upper Krishna/Krishna	Karnataka	Bagalkot, Vijayapura/ Raichur, Yaadgir					
16	KRS	Cauvery/Middle Cauvery/Cauvery	Karnataka	Mandya, Mysore					
17	Tungabhadra	Tungabhadra/Middle Tungabhadra/Krishna	Karnataka	Gadag/Bellary, Koppal, Raichur					
18	Hemavathy	Hemavathy/ Hemavathy/Cauvery	Karnataka	Hassan, Kodagu/Mandya, Mysore					
19	Bhadra	Bhadra/Upper Tungabhadra/Krishna	Karnataka	Chikmagalur/Shimoga					
20	Hidkal	Ghataprabha/Ghataprabha/Krishna	Karnataka	Kolhapur (Mah)/ Belgaum (Kar)					
21	Malaprabha	Malaprabha/Malaprabha/Krishna	Karnataka	Belgaum					
22	Warana	Warana/Upper Krishna/Krishna	Maharashtra	Kolhapur, Sangli					
23	Koyna	Koyna/ Upper Krishna/Krishna	Maharashtra	Satara/Kolhapur, Sangli					
24	Yeldari	Purna/Purna/Godavari	Maharashtra	Parbhani, Hingoli					
25	Totladoh	Pench/Wainganga/Godavari	Maharashtra	Chindwara(MP)/Nagpur(Mah)					
26	Isapur	Penganga/Penganga/Godavari	Maharashtra	Hingoli, Yavatmal/Yavatmal,Nanded					
27	Veer	Nira/Upper Bhima/Krishna	Maharashtra	Pune, Satara					
28	Ujjani	Bhima/Upper Bhima/Krishna	Maharashtra	Pune, Solapur					
29	RanaPratapSagar	Chambal/Upper Chambal/Ganga	Rajasthan	Neemuch(MP)/Dholpur,Kota, Bundi(Raj)					
30	Panchana	Gambhiri/Upper Chambal/Ganga	Rajasthan	Karauli					
31	Gudha	Mejchambal/Upper Chambal/Ganga	Rajasthan	Bhilwara/Bundi					
32	Kalisindh	Kalisingh/Upper Chambal/Ganga	Rajasthan	Jhalawar, Kota					
33	SomKamlaAmba	Som/Mahi B/Mahi	Rajasthan	Udaipur/ Dungarpur					
34	Vaigai	Vaigai/Upper Vaigai/EF Rivers b/w Cauvery & Kanyakumari	TN	Theni/Madurai					

35	Bhavanisagar	Bhavani/Middle Cauvery/Cauvery	TN	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)					
36	Idukki	Periyar/Upper Periyar/West Flowing Rivers from Tadri to Kanyakumari	Kerala	Idduki/Ernakulam					
37	Edamalyar	Periyar/Upper Periyar/West flowing rivers from Tadri to Kanyakumari	Kerala	Ernakulam					
38	Bargi	Narmada/Upper Narmada/Narmada	MP	Mandla, Seoni/Jabalpur, Narsimhapur					
39	Gandhi Sagar	Chambal/Upper Chambal/Ganga	MP	Mandsaur,Neemuch(MP)/Dholpur(Raj)					
40	Tawa	Tawa/Middle Narmada/Narmada	MP	Betul,Hoshnabad/Sehore					
41	Rajghat	Betwa/Betwa/Ganga	MP	Ashoknagar(MP), Lalitpur(UP)/Shivpuri, Lalitpur(UP)					

Note- Based on above information, Project Authority may regulate the reservoirs as per standard operating manuals/ rule levels to avoid downstream flooding and upstream submergence.