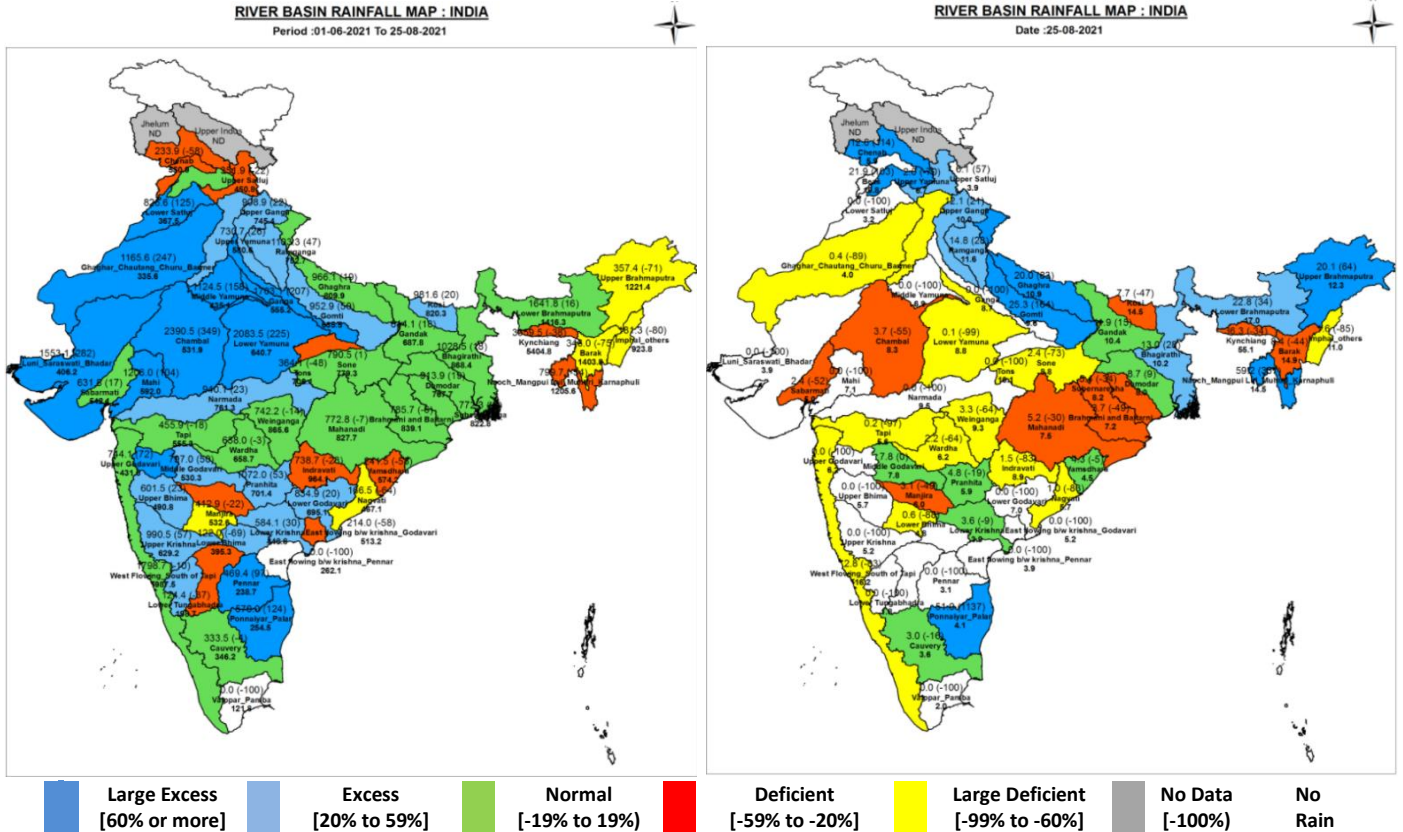




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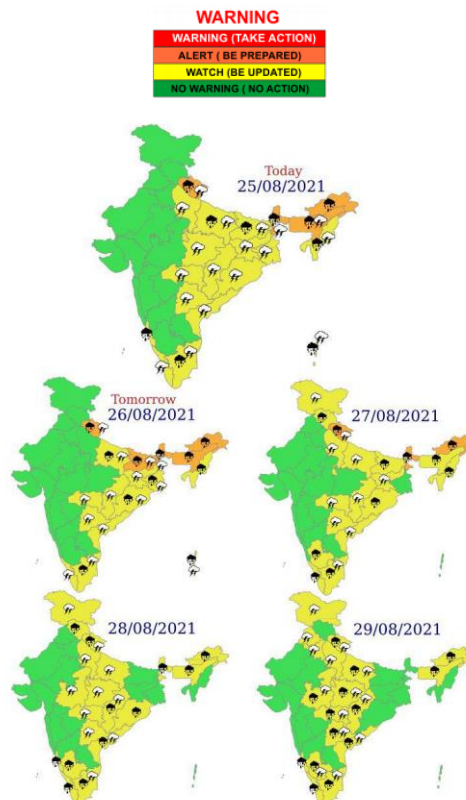
1.0 Rainfall Situation

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 25th August, 2021 (Midday) by IMD



- Extremely heavy/very heavy rainfall over Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh on 25th-27th August; over Assam & Meghalaya on 25th & 26th August; over Bihar on 26th August, 2021

2.0 Flood Situation and Advisories

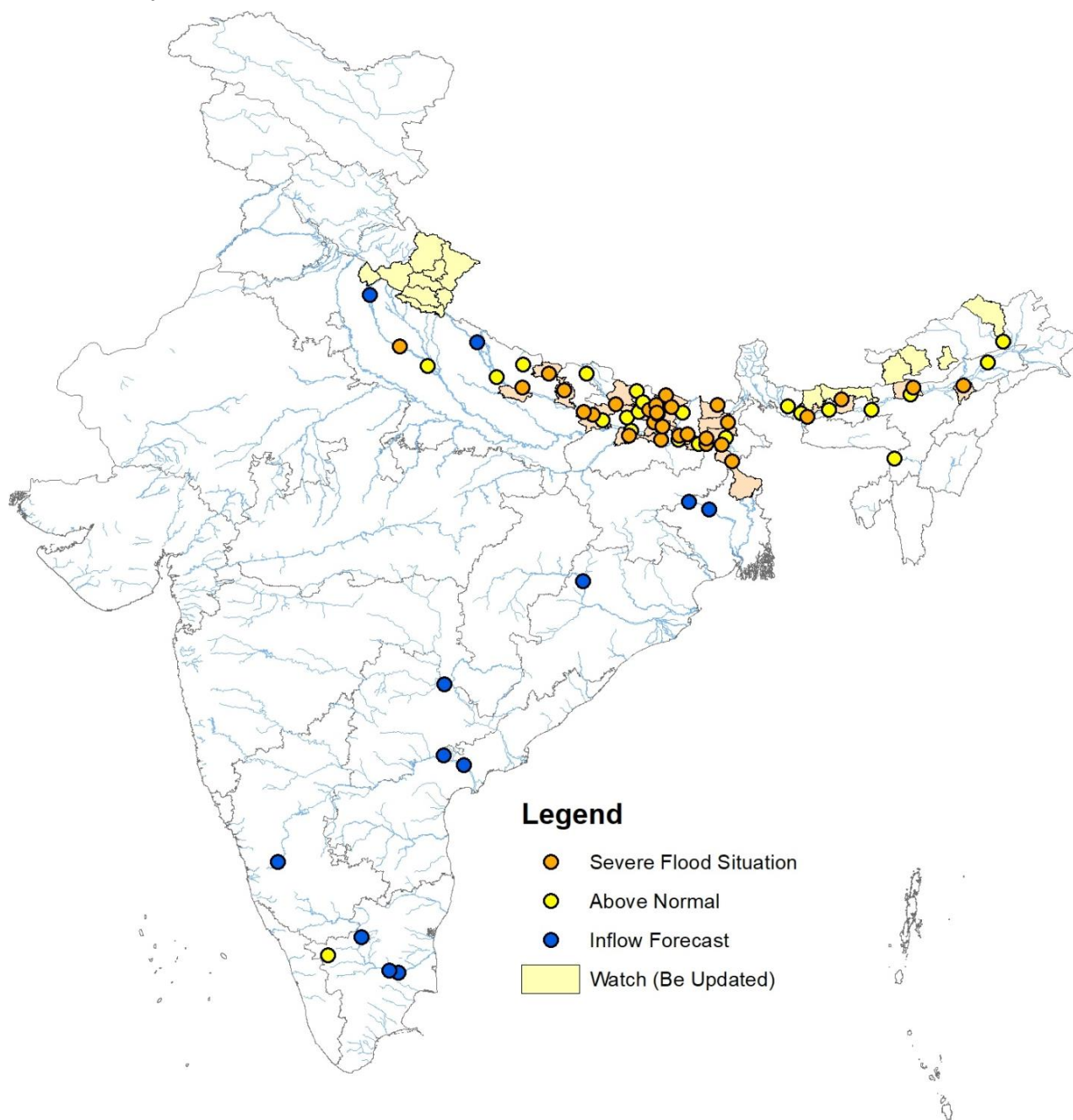
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 25th August, 2021, 29 Stations (18 in Bihar, 5 in Uttar Pradesh, 4 in Assam and 1 each in Jharkhand & West Bengal) are flowing in Severe Flood Situation and 23 stations (10 in Bihar, 6 in Assam, 4 in Uttar Pradesh and 1 each in Tamil Nadu West Bengal & Arunachal Pradesh) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 12 Barrages & Dams (3 in Tamilnadu, 2 each in Andhra Pradesh & Uttar Pradesh and 1 each in Karnataka, Telangana, Jharkhand, Odisha & West Bengal)

PART - I: LEVEL FORECAST		
S.No.	Flood Situations	Numbers of Forecasting Sites
A	Extreme Flood Situation: (Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalled)	0
B	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	29
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	23
Total number of sites above Warning Level (A+B+C)		52
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)		12

Details are given at link: http://www.cwc.gov.in/sites/default/files/cfcrwcdfb-25.08.2021-2_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

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

As the monsoon trough at mean sea level continues to run along the foothills of the Himalayas and expected to remain till tomorrow. Heavy rainfall has been forecasted by IMD in Uttarakhand and Bihar. Hence there is likelihood of rise in water levels in rivers such as Upper Yamuna, Bhagirathi, Alaknanda, Mandakini, Ganga, Ramganga, Sharda, Sarju etc. There is likelihood of flash floods in some of the hill districts 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 the state.

Main Ganga river is flowing in above normal to severe flood situations in districts **Farrukhabad (Rising), Ballia (U.P.), Patna, Munger, Bhagalpur (Bihar), Sahibganj (Jharkhand) & Murshirabad (West Bengal)** with falling trends.

River Ghaghra in **Ayodhya, Ballia (Uttar Pradesh)** and **Siwan (Bihar)** districts is flowing in severe to above normal flood situations. River Rapti is flowing in severe to above normal flood situations in **Balrampur, Siddharth Nagar & Gorakhpur districts (U.P.)**.

Currently, River Kosi in **Supaul, Khagaria & Katihar (Bihar)**, River Punpun in **Patna**, River **Bagmati** in **Sitamarhi, Muzzafarpur & Darbhanga (Bihar)**, River **Gandak** in **Kushinagar (U.P.), Gopalganj & Muzaffarpur (Bihar)**, River **Parman** in **Araria (Bihar)**, River **Adhwara** in **Darbhanga**, Rivers **Kamla & Kamlabalan** in **Madhubani**, River **Burhi Gandak** in **Muzaffarpur, Samastipur & Khagaria**, River **Mahananda** in **Kishanganj, Purnia & Katihar** in Bihar are flowing in severe to above normal flood situations. In upper reaches of these rivers the water levels are expected to rise as heavy rains have been predicted over rivers originating from Nepal from 27.08.2021 onwards for 2 to 3 days. Rainfall is expected to increase in almost all **districts of Uttarakhand and Araria & Kishanganj districts of Bihar** hence alert may be kept in **Parman river and Mahananda river**, as it is already in severe flood situations. Flood situations may exist in the lower reaches of these rivers in the coming days as the main stem of Ganga is in above normal to severe flood situations from Patna to Murshirabad.

2.2.2 Brahmaputra and its tributaries, Barak and Others – Assam

Due to past 4 to 5 days rainfall, Brahmaputra main river is flowing in above normal flood situations to severe flood situations in Sonitpur, Goalpara, Dhubri, Dibrugarh, Kamrup & Jorhat districts (Assam). Also tributaries of Brahmaputra namely **Beki river** in Barpeta district, **Jia-Bharali river** in Sonitpur and **Sankosh river** in Dhubri (Assam); **Torsa river** in Coochbihar, **Teesta river** in Jalpaiguri (West Bengal); **Siang river** in east Siang (Arunachal Pradesh) are flowing in above normal flood situations to severe flood situations.

River Kushiya is flowing in above normal situations in Karimganj (Assam).

IMD has predicted heavy rainfall, hence alert may be kept in districts **Baska (West Bengal); South Sikkim, East Sikkim (Sikkim); Chirang, Kokrajhar, Barpeta and Kokrajhar (Assam); North & East Kameng, Upper & East Siang and Lower Subansiri (Arunachal Pradesh)**. Hence heavy rainfall is expected in upper and middle Brahmaputra basin and tributaries such as **Teesta, Sankosh, Jaldhaka, Torsa, Manas, Beki, Raidak, Aie, Kaldiya, Puthimari, Dhansiri** in next 2 to 3 days due to this, the river levels in many of these rivers are likely to rise.

2.2.3 Krishna basin–Andhra Pradesh, Karnataka

Most of the dams in Upper Krishna Basin are having very high storages. Almatti, Narayanpur and Thunghabhadra Dams are more than 90% filled up. Dams **P. D. Jurala, Srisaillam, Koyana, Warna, Musi & Veer** are also having high storages (more than 80%). Round the clock watch has to be maintained for proper reservoir operation. Releases from any of these reservoirs may be done as per rule curve and standard operating procedure by prior informing the lower riparian areas.

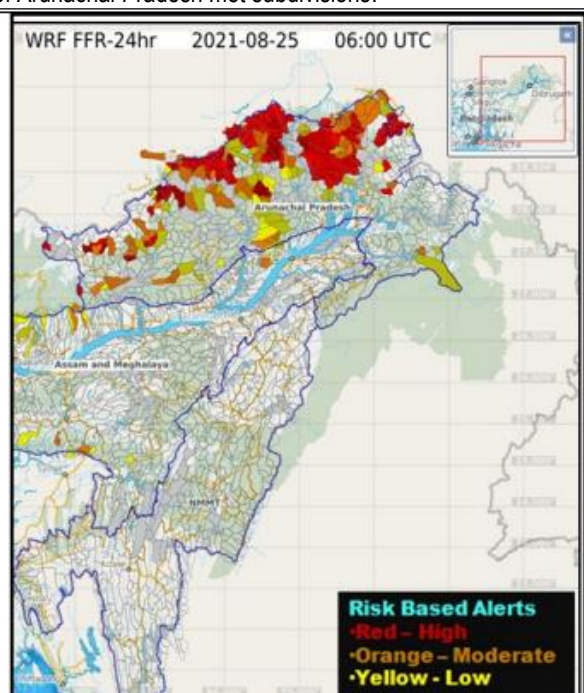
2.3. Flash Flood Guidance

IMD has issued flash flood risk over few watersheds and neighborhoods of Arunachal Pradesh met subdivisions.

24 hours Flash Flood Risk (FFR) Outlook Till 1130 IST of 26.08.2021:

Moderate to High Risk likely over few watersheds and neighborhoods of Arunachal Pradesh met subdivisions in next 24 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 24 hours.



3.0 Storage Position in Dams where Inflow forecast is being issued by CWC as on 25thAugust, 2021

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	Pulichinthala	Krishna/Lower Krishna/ Krishna	AP	Nalgonda(Tel)/Guntoor,Krishna (AP)					
2	Srisailem	Krishna/Lower Krishna/Krishna	AP	JogulambaGadwal (Tel), Kurnool(AP)/Nalgonda(Tel), Guntoor (AP)					
3	NagarjunaSagar	Krishna/Lower Krishna/Krishna	AP	Nalgonda(Tel), Guntoor (AP)					
4	Musi	Musi/Lower Krishna/ Krishna	Tel	Nalgonda					
5	Sri PadaYellampally	Godavari/Middle Godavari/Godavari	Tel	Mancherial/ JaishankarBhupalpally					
6	Sriramsagar Project	Godavari/Middle Godavari/Godavari	Tel	Nanded (Mah)/Nirmal (Tel)					
7	Kaddam	Kaddam/Middle Godavari/Godavari	Tel	Adilabad, Nirmal/ Mancherial					
8	PD Jurala	Krishna/ Middle Krishna/Krishna	Tel	Raichur(Kar)/Kurnool(Andhra Pradesh),JogulambaGadwal(Tel)					
10	Panchet	Damodar/ Damodar East/ Ganga	Jhar	Dhanbad, Jamtara (Jhar)/ Puruliya, PaschimBardhaman, Bankura (WB)					
11	Getalsud	Damodar/ Damodar West/Ganga & its tributaries	Jhar	Bokaro (Jharkand)					
12	Konar	Konar/ Damodar West/Ganga & its tributaries	Jhar	Hazaribagh (Jharkand)					
13	Tilaiya	Barakar/ Barakar West/Ganga & its tributaries	Jhar	Koderma (Jharkand)					
14	Maithon	Barakar/ Barakar East/Ganga	Jhar	Dhanbad, Jamtara (Jhar)/ Puruliya, PaschimBardhaman, Bankura (WB)					
15	Kabini	Kabini/Kabini/ Cauvery	Kar	Wayanad (Kerala)/ Mysuru (Kar)					
16	Harangi	Cauvery/Upper Cauvery/Cauvery	Kar	Kodagu/Mandya					
17	Karanja	Karanja/Manjira/Godavari	Kar	Bidar (Kar), Vikarabad(Tel)/Bidar(Kar)					
18	Almatti	Krishna/Upper Krishna/Krishna	Kar	Kolhapur(Mah)/ Bagalkote(Kar)					
19	Narayanpur	Krishna/Upper Krishna/Krishna	Kar	Bagalkot, Vijayapura/ Raichur, Yaadgir					
20	KRS	Cauvery/Middle Cauvery/Cauvery	Kar	Mandya, Mysore					
21	Tungabhadra	Tungabhadra/Middle Tungabhadra/Krishna	Kar	Gadag/Bellary, Koppal, Raichur					
22	Hemavathy	Hemavathy/ Hemavathy/Cauvery	Kar	Hassan, Kodagu/Mandya, Mysore					
23	Bhadra	Bhadra/Upper Tungabhadra/Krishna	Kar	Chikmagalur/Shimoga					
24	Hidkal	Ghataprabha/Ghataprabha/Krishna	Kar	Kolhapur (Mah)/ Belgaum (Kar)					
25	Malaprabha	Malaprabha/Malaprabha/Krishna	Kar	Belgaum					
26	Warana	Warana/Upper Krishna/Krishna	Mah	Kolhapur, Sangli					
27	Koyna	Koyna/ Upper Krishna/Krishna	Mah	Satara/Kolhapur, Sangli					
28	Yeldari	Purna/Purna/Godavari	Mah	Parbhani, Hingoli					
29	Totladoh	Pench/Wainganga/Godavari	Mah	Chindwara(MP)/Nagpur(Mah)					
30	Isapur	Penganga/Penganga/Godavari	Mah	Hingoli, Yavatmal/Yavatmal,Nanded					
31	Upper Wardha	Wardha/Wardha/Godavari	Mah	Wardha, Amravati					
32	Veer	Nira/Upper Bhima/Krishna	Mah	Pune, Satara					
33	Ujjani	Bhima/Upper Bhima/Krishna	Mah	Pune, Solapur					
34	Mula	Mula/Upper Godavari/Godavari	Mah	Ahmadnagar					
35	RanaPratapSagar	Chambal/Upper Chambal/Ganga	Raj	Neemuch(MP)/Dholpur,Kota, Bundi(Raj)					
36	Parwati	Parbati/Kalisindh/Kalisindh/Upper Chambal	Raj	Baran (Raj)/Baran (Raj), Kota (Raj), Sheopur (MP)					
37	Panchana	Gambhiri/Upper Chambal/Ganga	Raj	Karauli					

38	Gudha	Mejchambal/UpperChambal/Ganga	Raj	Bhilwara/Bundi					
39	Kalisindh	Kalisindh/Upper Chambal/Ganga	Raj	Jhalawar, Kota					
40	SomKamlaAmba	Som/Mahi B/Mahi	Raj	Udaipur/ Dungarpur					
41	Mahi Bajaj Sagar	Mahi/Mahi B/Mahi	Raj	Ratlam(MP)/Banswara, Pratapgarh,Dungapur (Raj)					
42	Vaigai	Vaigai/Upper Vaigai/EF Rivers b/w Cauvery &Kanyakumari	TN	Theni/Madurai					
43	Bhavanisagar	Bhavani/Middle Cauvery/Cauvery	TN	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)					
44	Idukki	Periyar/Upper Periyar/West Flowing Rivers from Tadri to Kanyakumari	Kerala	Idduki/Ernakulam					
45	Edamalyar	Periyar/Upper Periyar/West flowing rivers from Tadri to Kanyakumari	Kerala	Ernakulam					
46	Bargi	Narmada/Upper Narmada/Narmada	MP	Mandla, Seoni/Jabalpur, Narsimhapur					
47	Tawa	Tawa/Middle Narmada/Narmada	MP	Betul,Hoshnabad/Sehore					
48	Gandhi Sagar	Chambal/Upper Chambal/Ganga	MP	Mandsaur,Neemuch(MP)/Dholpur(Raj)					
49	Rajghat	Betwa/Betwa/Ganga	MP	Ashoknagar(MP), Lalitpur(UP)/Shivpuri, Lalitpur(UP)					
50	Bansagar	Sone/Sone/Ganga	MP	Katni, Umaria, Shahdol, Satna/ Rewa, Sidhi					
51	Rengali	Brahmani River/Brahmani and Baitarni/Brahmani and Baitarni	Odisha	Deogarh/Angul, Dhenkanal					

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.