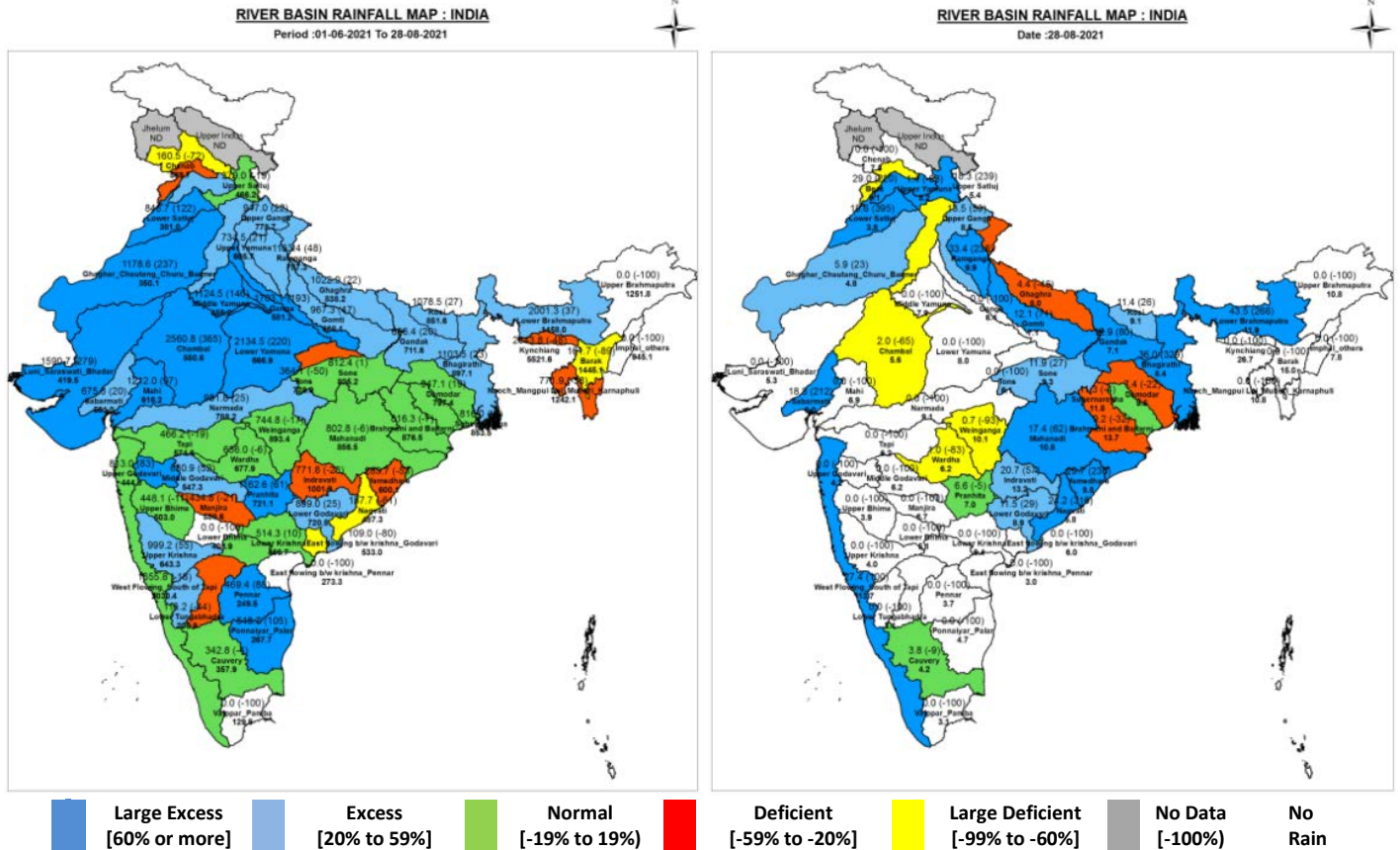




Central Water Commission  
Daily Flood Situation Report cum Advisories  
28-08-2021

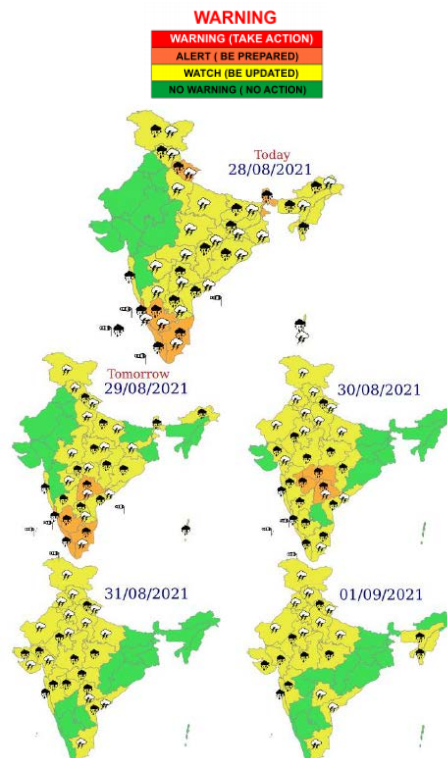
1.0 Rainfall Situation

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 28<sup>th</sup> August, 2021 (Midday) by IMD



- Extremely/very heavy rainfall over Uttarakhand on 28<sup>th</sup>; over Vidarbha and Marathwada on 30<sup>th</sup>; over Telangana on 29<sup>th</sup> & 30<sup>th</sup>; over Coastal & South Interior Karnataka, Tamilnadu and Kerala & Mahe on 28<sup>th</sup> & 29<sup>th</sup>; over East Uttar Pradesh on 29<sup>th</sup>; over Sub-Himalayan West Bengal & Sikkim on 28<sup>th</sup> and over north Konkan and Gujarat Region on 31<sup>st</sup> August & 01<sup>st</sup> September, 2021.

## 2.0 Flood Situation and Advisories

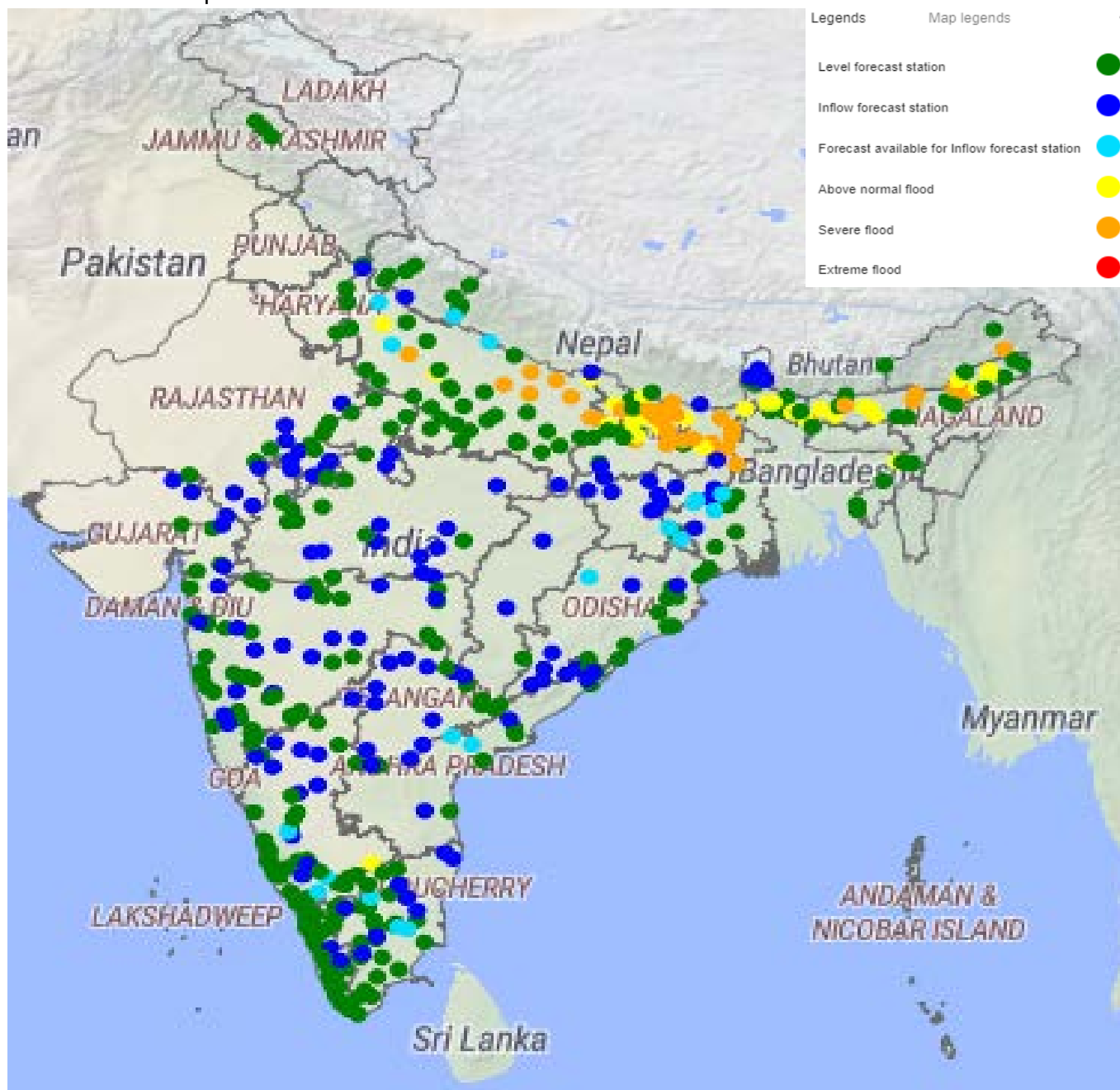
### 2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 28<sup>th</sup> August, 2021, 35 Stations (19 in Bihar, 7 in Uttar Pradesh, 6 in Assam and 1 each in Arunachal Pradesh, Jharkhand & West Bengal) are flowing in Severe Flood Situation and 27 stations (11 in Assam, 10 in Bihar, 3 in Uttar Pradesh, 2 in West Bengal and 1 in Tamil Nadu) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 19 Barrages & Dams (4 in Jharkhand, 3 each in Karnataka, Tamilnadu & Uttar Pradesh, 2 each in Andhra Pradesh & West Bengal and 1 each in Odisha & Uttarakhand)

FLOOD SITUATION SUMMARY		
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))	35
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	27
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)		19

Details are given at link: [http://cwc.gov.in/sites/default/files/cfrcwcdfb-28.08.2021-2\\_5.pdf](http://cwc.gov.in/sites/default/files/cfrcwcdfb-28.08.2021-2_5.pdf)

#### 2.1.1 Flood Situation Map



## 2.2 CWC Advisories

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

#### 2.2.1.1 Uttarakhand

Water level in rivers Bhagirathi, Alaknanda, Mandakini, Ganga, Ramganga, Sharda, etc. is expected to rise. Alert may be kept in districts Dehradun, Udham Singh Nagar, Bageshwar, Pithograh, Champawat and Nanital.

#### 2.2.1.2 Uttar Pradesh

Presently river **Ghaghra** is flowing above Danger Level in **Barabanki, Ayodhya & Ballia** with rising trend. River **Rapti** is flowing in severe flood situations in **Balrampur, Siddharth Nagar & Gorakhpur** districts. Main Ganga is flowing in severe to above normal flood situation with rising trend in **Hapur, Budaun & Farukhabad** with rising trends.

#### 2.2.1.3 Bihar

Widespread rainfall happened in Nepal during past 2 days in basins such as Narayani, Mahakali, Tinau, Banganga, Kosi, Kamala, Bagmati, Gandaki, Churiya, West Rapti, Karnali, Babai, Kankai. Hence, it is expected to rise the water levels in rivers such as Gandak, Bagmati, Adhwara, Kosi and other rivers of Bihar originating in Nepal in next 2 days.

Presently, river **Ghaghra** is flowing above Danger Level in **Siwan** district with rising trend. River **Gandak** in **Purba Champaran, Gopalganj & Muzaffarpur**, River **Burhi Gandak** in **Muzaffarpur, Samastipur & Khagaria**, River **Bagmati** in **Sitamarhi, Muzzafarpur & Darbhanga**, River **Adhwara** in **Darbhangha**, Rivers **Kamla & Kamlabalan** in **Madhubani**, River **Kosi** in **Supaul, Khagaria & Katihar**, River **Parman** in **Araria** and River **Mahananda** in **Kishanganj, Purnia & Katihar** are flowing in severe to above normal flood situations.

Presently, main Ganga River is flowing in above normal to severe flood situations in districts **Patna & Bhagalpur**. River **Punpun** in **Patna** is also flowing above danger level.

#### 2.2.1.4 Jharkhand

Main Ganga in **Sahibganj** is flowing above danger level.

#### 2.2.1.5 West Bengal

Main Ganga in **Murshirabad** is flowing above danger level.

### 2.2.2 Brahmaputra and its tributaries, Barak and Others

#### 2.2.2.1 Arunachal Pradesh

River **Siang** in East Siang district is flowing above danger level.

#### 2.2.2.2 Assam

Due to past one week rainfall, **Brahmaputra** main river is flowing in above normal to severe flood situations in **Dibrugarh, Jorhat, Sonitpur, Goalpara, Kamrup & Dhubri** districts. Also tributaries of Brahmaputra namely **Beki** river in **Barpeta** district, **Jia-Bharali** river in **Sonitpur**, **Pagladiya** river in **Nalbari**, **Dikhow** river in **Sibsagar**, **Sankosh** river in **Dhubri**, **Subansiri & Ranganadi** in **Lakimpur**, **Barak** at **Karimganj** are flowing in above normal flood situations to severe flood situations.

#### 2.2.2.3 Sub-Himalayan West Bengal

**Torsa** river in **Coochbihar** & **Teesta** river in **Jalpaiguri** are flowing above warning level.

### 2.2.3 Rivers from Tadri to Kanyakumari – Kerala & Tamilnadu

Due to formation of Low Pressure Area in Bay of Bengal, very heavy to heavy rains are forecasted in districts of **Kasargode, Idukki, Kannur, Wayanad, Palakkad, Kozhikode, Malappuram, Kottayam, Thrissur, Ernakulam & Palakkad (Kerala)** and **Teni, Coimbatore & Nilgris (Tamilnadu)** for next 3 days, hence alert may be kept. So inflow into Idukki, Edamalayar is expected to rise. Rise is also expected in other medium to major dams situated in Kerala in the river basins of Periyar, upper Periyar, Chalakudi, Pamba & Meenachil.

#### 2.2.4 Krishna Basin

Most of the dams in Upper Krishna Basin are having very high storages. **Almatti (100%), Narayanpur (97%), Malaprabha (96%), Bhadra (98%), Ghataprabha (100%) and Tungabhadra (98%)** dams are more than 95% filled up. Dams **P. D. Jurala, Srisailem, Koyna, 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.

#### 2.2.5 Cauvery Basin

Dams in Cauvery Basin are having storages more than 85% namely **Harangi (94%), Kabini (93%), Hemavathi (90%) and KRS (85%)**. 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. Alert may be kept in districts **Uttar and Dakshin Kannada, Shimoga, Hassan, Kodagu, Chamarajanagar (Karnataka), Nilgris (Tamil Nadu), Wayanad (Kerala)**.

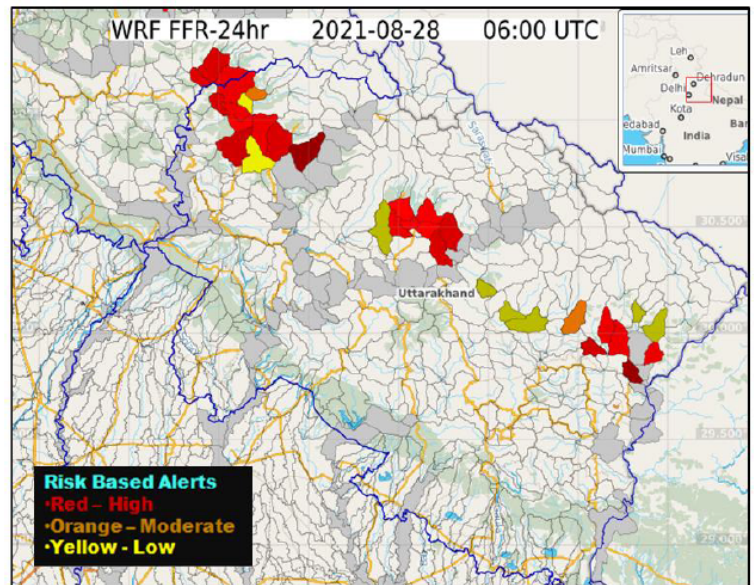
## 2.3 Flash Flood Guidance

IMD has issued flash flood risk over few watersheds and neighbourhoods of Uttarakhand met subdivisions.

### **24 hours Flash Flood Risk (FFR)** **Outlook Till 1130 IST of 29.08.2021:**

**Moderate Risk** likely over few watersheds and neighborhoods of **Uttarakhand** 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 forecasted rainfall in next 24 hours**.



### 3.0 Storage Position in Dams where Inflow forecast is being issued by CWC as on 28<sup>th</sup> August, 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	Mancherla/ JaishankarBhupalpally					
6	Sriramsagar Project	Godavari/Middle Godavari/Godavari	Tel	Nanded (Mah)/Nirmal (Tel)					
7	Kaddam	Kaddam/Middle Godavari/Godavari	Tel	Adilabad, Nirmal/ Mancherla					
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, Yadgir					
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					
52	Ukai	Tapi/Lower Tapi/Tapi	Guj	Nadurbar(Mah), Tapi(Guj)/ Surat (Guj)					

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.