



Central Water Commission
Daily Flood Situation Report cum Advisories
01-09-2021

1.0 Rainfall Situation

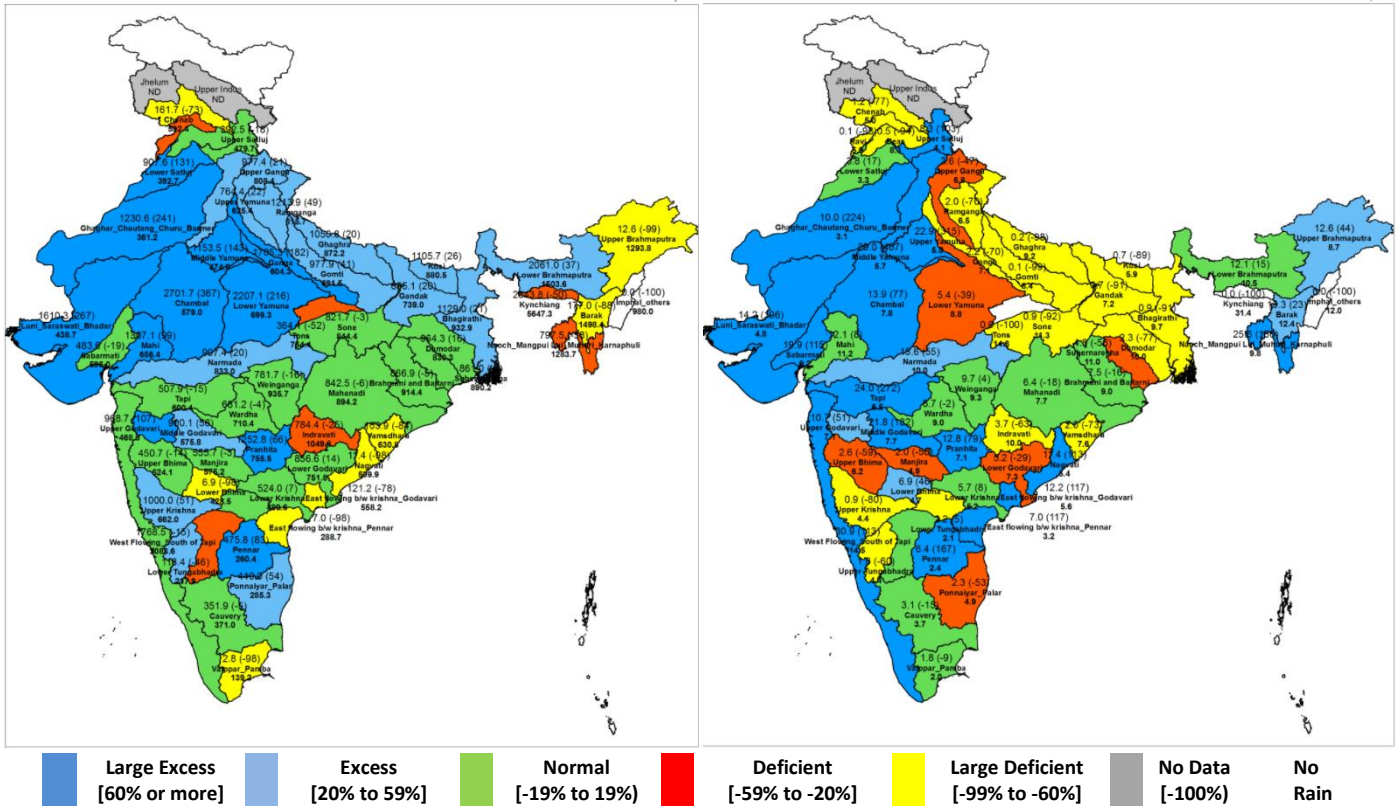
1.1 Basin wise departure from normal of cumulative and daily rainfall

RIVER BASIN RAINFALL MAP : INDIA

Period :01-06-2021 To 01-09-2021

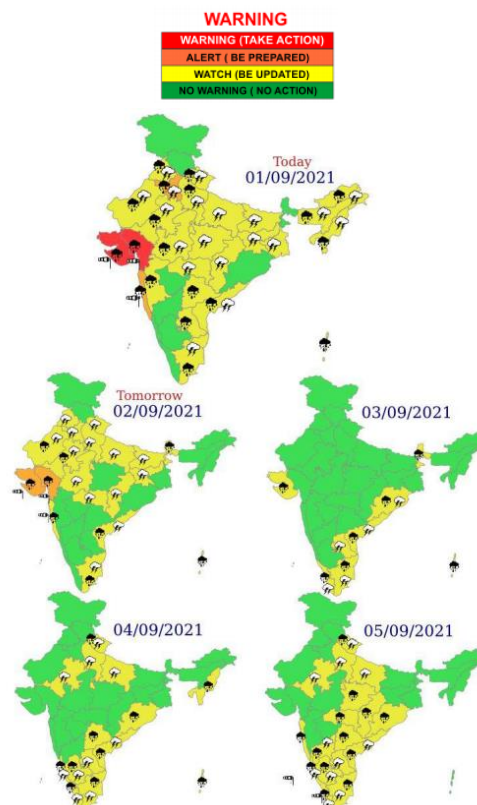
RIVER BASIN RAINFALL MAP : INDIA

Date :01-09-2021



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 1st September, 2021 (Midday) by IMD



- Extremely Heavy/Very heavy rainfall at isolated places over Gujarat state during 01st-02nd September; over north Konkan & Haryana, Chandigarh & Delhi on 01st September, 2021.

2.0 Flood Situation and Advisories

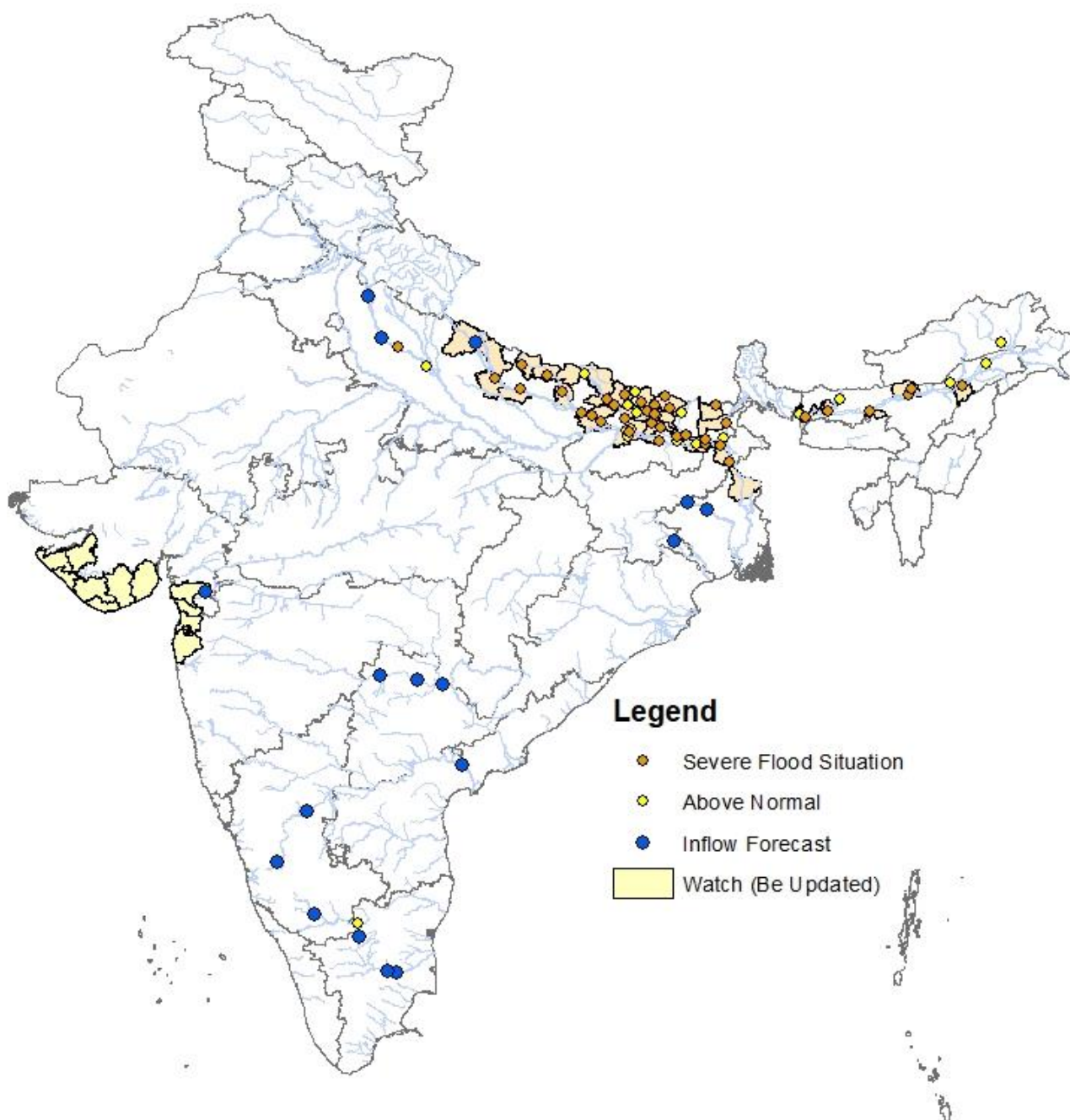
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 1st September, 2021, 38 Stations (23 in Bihar, 7 in Uttar Pradesh, 6 in Assam and 1 each in Jharkhand & West Bengal) are flowing in Severe Flood Situation and 18 stations (10 in Bihar, 4 in Assam, 2 in Uttar Pradesh and 1 each Arunachal Pradesh and Tamil Nadu) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 17 Barrages & Dams (3 each in Karnataka, Telangana, Tamilnadu & Uttar Pradesh, 2 in Jharkhand and 1 each in Andhra Pradesh, Gujarat & 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))	38
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	18
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)		17

Details are given at link: http://www.cwc.gov.in/sites/default/files/cfcrwcdfb-01.09.2021_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 Tapi, Narmada, Damanganga, Banas, Sabarmati, Mahi, Rivers of Saurashtra – Gujarat, Maharashtra, Union Territories of Dadra and Nagar Haveli

Due to upper air cyclonic circulation over south Gujarat and presence of trough running from south Gujarat to NW-U.P., heavy to extremely heavy rains are expected in river basins of Gujarat and neighboring Maharashtra for next 2 days. Alert may be kept in districts such as **Navsari, Valsad, Tapi, Dangs and Surat**. Localized Flooding of roads, inundation and water logging in low lying areas and closure of underpasses mainly in urban areas of the above said districts may occur. Increased flows are expected in rivers such as Tapi, Damanganga, Mindhola, Purna, Ambika, Vanki, Auranga, Par, Vishwamitri, Dhadhar, Kolak etc. Ukai dam is presently receiving inflows above 1000 cumecs. Increased inflows are also expected in Hathnur (Jalgaon dist., Maharashtra) & Madhuban Dam.

Alert may be kept in districts of Saurashtra such as **Gir S omnath, Junagadh, Porbander, Dwaraka, Rajkot, Jamnagar, Amreli and Bhavnagar** and rivers such as Shetrunji, Machhundri, Machhu, Ozat etc.

2.2.2 West Flowing Rivers between Tapi and Tadri – Maharashtra, Konkan, Goa

IMD has predicted heavy to very heavy rainfall over Konkan and Goa for 2 days. There is a need to keep watch and be updated for water level in rivers such as Ulhas (**Thane** district); Bhogeshwari, Savitri & Kal (**Raigad** district); Bav (**Ratnagiri** district); Gad (**Sindhudurg** dist.); Madai (**North Goa**) as these rivers are flashy and sudden rise of water level can occur in these rivers. Alert may be kept in district Palghar district.

Watch for urban flooding situation is to be maintained in **Mumbai**.

2.2.3 Delhi city, Haryana & Chandigarh

IMD has predicted rainfall in Delhi, this may lead to localized Flooding of roads, inundation and water logging in low lying areas and closure of underpasses mainly in urban areas of Delhi city

2.2.4 Ganga Basin- Uttar Pradesh, Bihar, Jharkhand & West Bengal

2.2.4.1 Uttar Pradesh

Presently, river **Ghagra** is flowing above Danger Level in **Barabanki, Ayodhya & Ballia** districts with rising trends. River **Rapti** is flowing in severe flood situations in **Balrampur, Siddharth Nagar & Gorakhpur** districts with rising trends and **Gandak** in **Kushinagar** district is flowing above warning level with steady trends. Main Ganga is flowing in severe to above normal flood situation with falling to steady trends in middle reaches such as Budaun and Farrukhabad and towards lower reaches.

2.2.4.2 Bihar

Presently, river **Ghagra** is flowing above Danger Level in **Siwan** district with falling trend. River **Gandak** in **Purba Champaran, Gopalganj, Vaishali & Muzaffarpur**, River **Burhi Gandak** in **Purba Champaran, 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** districts are flowing in severe to above normal flood situations. In the above mentioned rivers such as Gandak, Burhi Gandak, Bagmati, Adhwara, Kamla, Kosi are in falling trends in upper reaches and in rising trends in middle to lower reaches. River Parman and Mahananda are in falling trends throughout the length of river.

Presently, main Ganga River is flowing in above normal to severe flood situations in districts **Patna, Munger & Bhagalpur** districts with rising trend. As the tail end sites of northern side tributaries of Ganga such as Ghagra, Gandak, Kosi are in severe flood situations, the existing flood situation in Ganga from Patna to Murshirabad is likely to continue for coming days. River **Punpun** in **Patna** district is also flowing above warning level with falling trend.

2.2.4.3 Jharkhand

Main Ganga in **Sahibganj** district is flowing above danger level with rising trend.

2.2.4.4 West Bengal

Main Ganga in **Murshirabad** district is flowing above danger level with rising trend

2.2.5 Brahmaputra and its tributaries

2.2.5.1 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 with falling trends expect Dhubri. Also tributaries of Brahmaputra namely **Beki** river in **Barpeta**, **Jia-Bharali** river in **Sonitpur**, **Sankosh** river in **Dhubri**, **Subbansiri** in **Lakhimpur** districts are flowing in above normal to severe flood situations with falling trends.

2.2.5.2 Arunachal Pradesh

River Siang in east Siang is flowing in above normal flood situation with falling trend.

2.2.6 Godavari Basin – Maharashtra, Telangana

Alert may be kept in Penganga and Purna rivers. High storages exist in dams such as Mula (Ahmednagar dist.), Yeldari (Parbhani dist., Maharashtra), Karanja (Bidar dist., Karnataka), Sriramsagar, Kaddam (Nirmal dist. Telangana), S.Y.P (Pedapally dist.), hence, alert may be kept.

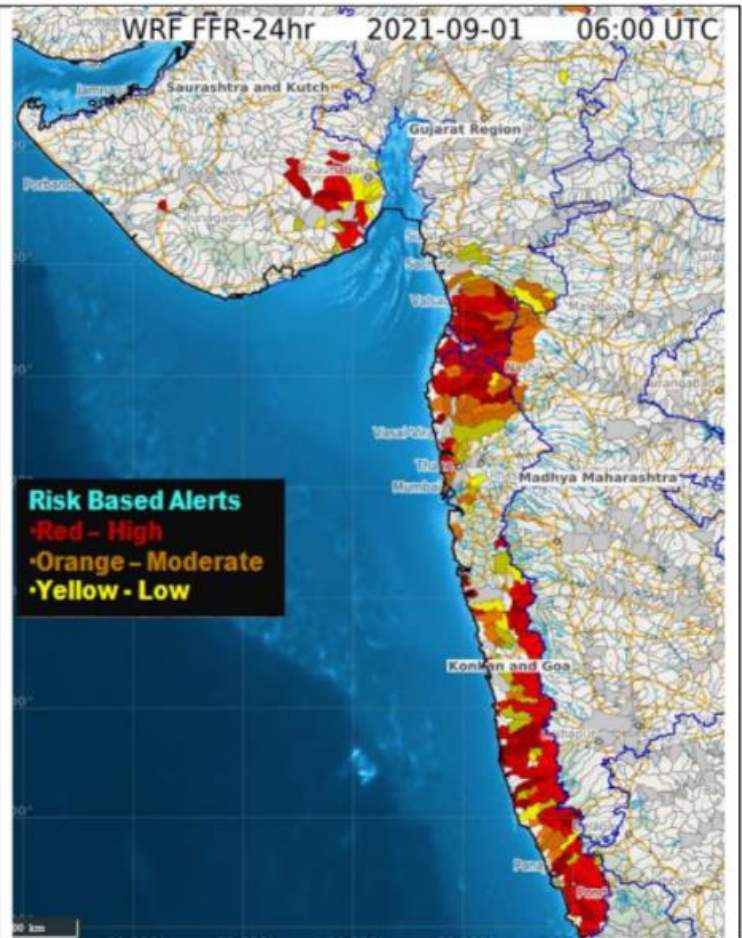
2.3 Flash Flood Guidance

IMD has issued Flash Flood Guidance of moderate to high risk over many watersheds and neighborhood of Konkan & Goa adjoining Southern part of Gujarat and Saurashtra & Kutch met subdivision in next 24 hours.

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 02.09.2021:

Moderate to High Risk over many watersheds and neighborhood of Konkan & Goa adjoining Southern part of Gujarat and Saurashtra & Kutch met subdivision in next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown 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 1st September, 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	Mancheria/ JaishankarBhupalpally					
6	Sriramsagar Project	Godavari/Middle Godavari/Godavari	Tel	Nanded (Mah)/Nirmal (Tel)					
7	Kaddam	Kaddam/Middle Godavari/Godavari	Tel	Adilabad, Nirmal/ Mancheria					
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	Som Kamla Amba	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	Hirakud	Mahanadi/Upper Mahanadi/Mahanadi	Odisha	Janjgir Champa, Raigarh(Chsgrh), Jharsuguda, Bargarh, Sambalpur(Odisha)/Subarnapur, Baudh, Anugul (Odisha)					
53	Ukai	Tapi/Lower Tapi/Tapi	Guj	Nadurbar(Mah), Tapi(Guj)/ Surat (Guj)					
54	Madhuban	Damanganga/Damanganga/West Flowing Rivers from Tapi to Tadri	Guj	Valsad (Guj)/Selvasa (UT of DNH)					

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.