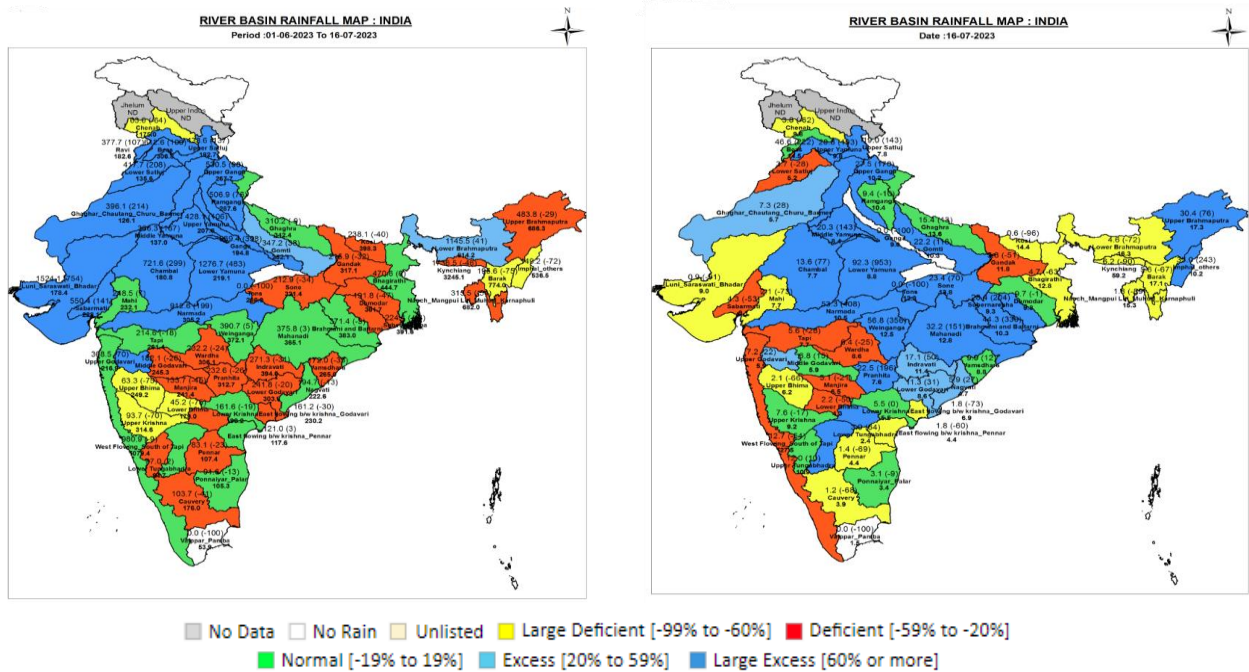




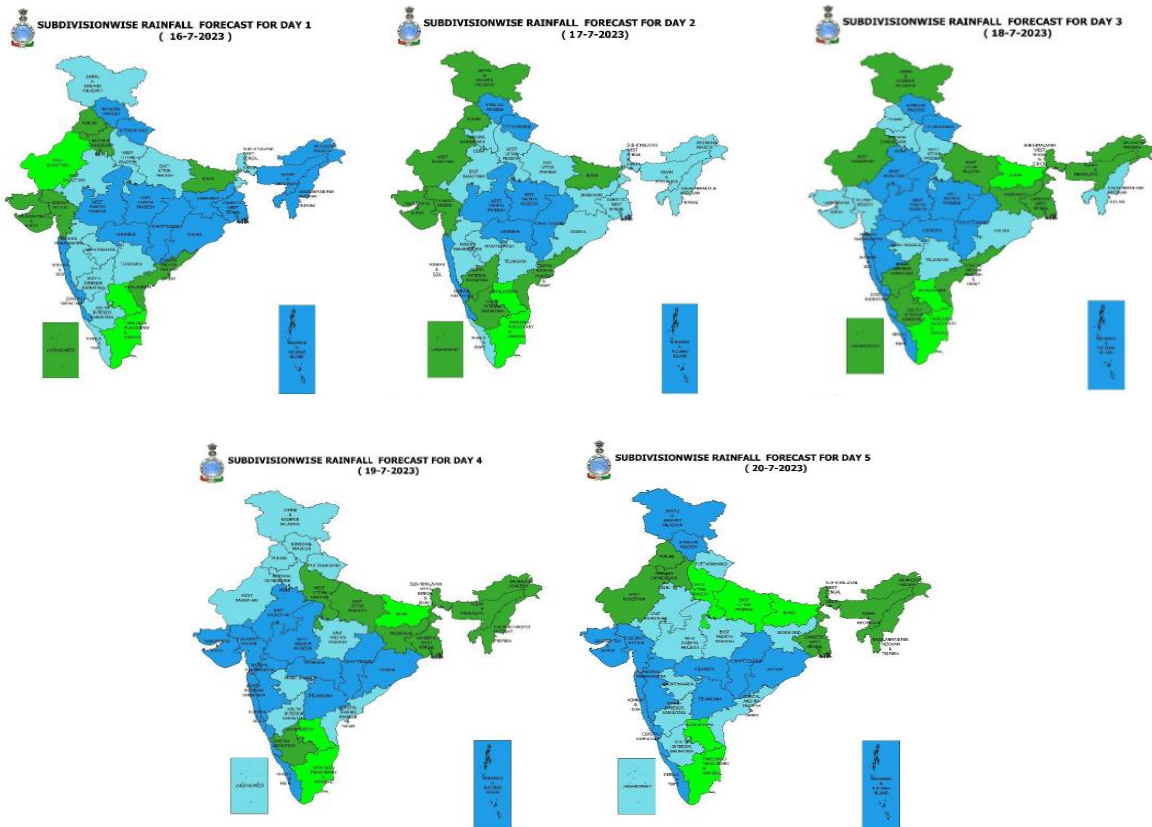
Central Water Commission
Daily Flood Situation Report cum Advisories
16-07-2023

1.0 Rainfall Situation

1.1 District wise departure from normal of cumulative and daily rainfall



1.2 Rainfall forecast for next 5 days issued on 16th July 2023 (Midday) by IMD



Legends

- DRY : No station reported rainfall ≥ 0.1 mm
- ISOLATED : No. of raingauge stations reported rainfall ≥ 0.1 mm is 1-25% of total no. of reporting stations on the day
- SCATTERED : No. of raingauge stations reported rainfall ≥ 0.1 mm is 26-50% of total no. of reporting stations on the day
- FAIRLY WIDE SPREAD : No. of raingauge stations reported rainfall ≥ 0.1 mm is 51-75% of total no. of reporting stations on the day
- WIDE SPREAD : No. of raingauge stations reported rainfall ≥ 0.1 mm is 75-100% of total no. of reporting stations on the day

2.0 Flood Situation and Advisories

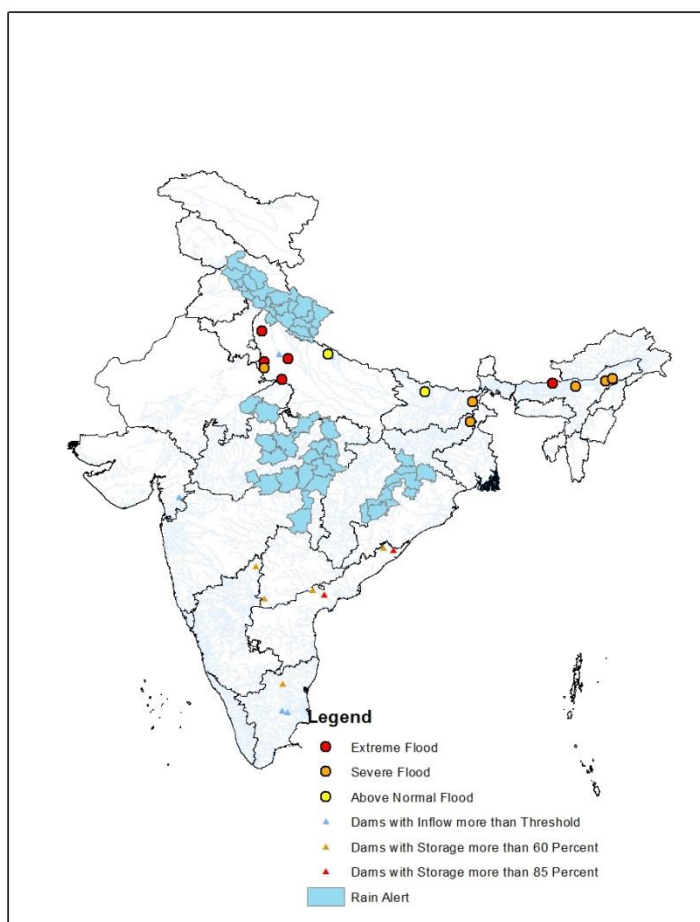
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 16th July 2023, 1 station in Uttar Pradesh is flowing in Extreme Flood Situation, 11 stations (4 in Assam, 5 in Bihar, 1 each in Delhi & Uttar Pradesh) are flowing in Severe Flood Situation, 19 stations (9 in Assam, 3 in Bihar, 6 in Uttar Pradesh & 1 in West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 6 Dams and Barrages (1 in Karnataka, 2 in Tamil Nadu & 3 in Uttar Pradesh).

PART - I: LEVEL FORECAST		(Total Sites - 199)		
S.No.	Flood Situations	State-wise Flood Situation	Numbers of Forecasting Sites	
A	Extreme Flood Situation: (Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalled)	Uttar Pradesh(1)	1	
B	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	Assam(4), Bihar(5), Delhi(1), Uttar Pradesh(1)	11	
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	Assam(9), Bihar(3), Uttar Pradesh(6), West Bengal(1)	19	
Total number of sites above Warning Level (A+B+C)			31	
PART - II: INFLOW FORECAST		(Total Sites - 134)		
Number of sites for which inflow forecasts issued: (Where Inflows are equal or exceed the specified Threshold Limit for a particular reservoir / barrage)		Karnataka(1), Tamil Nadu(2), Uttar Pradesh(3)	6	

Details are given at link:- https://cwc.gov.in/sites/default/files/cfrcwcdffb16.07.2023_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

Uttarakhand

IMD has predicted very heavy rains in **all districts** for next two days. Keep watch for water level rise in rivers such as Upper Yamuna, Gola, Ramganga, Kosi, Fica, Sarda, Sarju, Deoha and other tributaries of rivers in upper Ganga. It is informed that upper Yamuna basin is already saturated due to extremely heavy rainfall of immediate past so any further very heavy rains can lead to a flood like situation in Uttarakhand as well as lower riparian states.

Water levels at most of the CWC sites are in steady to falling state. Current flood situation as per CWC network is given below:

CWC Site	Trib./River	District	Flood Type	Trend in Water Level
Raysi	Solani/ Ganga	Haridwar	Severe	Falling
Bangapani	Gauriganga	Pithoragarh	Above Normal	Rising

New Delhi

Due to downward propagation of floods created in Upper Yamuna **Severe flood situation** exist in northern Delhi. CWC site at Delhi Railway Bridge in North Delhi has reported severe flood. The water levels at CWC Delhi Railway Bridge site is in falling state and the level is expected decrease further to 205.47 m by 21:00 hrs of 16.07.2023.

CWC Site	River	District	Flood Type	Trend in Water Level
Delhi Railway Bridge	Yamuna	North Delhi	Severe	Falling

Uttar Pradesh

Due to downward propagation of floods in Yamuna water level is expected to rise in lower riparian regions. As per CWC network flood situation exist in Ganga river in district **Hapur, Budan, Farrukhabad**, in Ramganaga in districts **Moradabad, Shahjahanpur** and in Sarda in district **Kheri** and Ghaghra in district **Barabanki, Ayodhya**. Current flood situation as per CWC network is given below:

CWC Site	River	District	Flood Type	Trend in Water Level
Ratanpuri	Kali	Muzaffarnagar	Extreme	Rising
Shergarh	Yamuna	Mathura	Extreme	Steady
Kachlabridge	Ganga	Budaun	Extreme	Rising
Bateshwar	Yamuna	Agra	Extreme	Rising
Baghpat	Krishni	Baghpat	Extreme	Rising
Pragyaghat	Yamuna	Mathura	Severe	Rising
Khadda	Gandak	Kushinagar	Above Normal	Rising
Elginbridge	Ghagra	Barabanki	Above Normal	Rising
Sharda Nagar	Sharda	Kheri	Above Normal	Rising
Bhitaure	Ganga	Fatehpur	Above Normal	Rising

Bihar

Current flood situation as per CWC network is given below:

CWC Site	River	District	Flood Type	Trend in Water Level
Araria	Parman	Araria	Severe	Steady
Benibad	Bagmati	Muzaffarpur	Severe	Falling
Dhengraghat	Mahananda	Purnia	Severe	Falling

Jhawa	Mahananda	Katihar	Severe	Falling
Baltara	Kosi	Khagaria	Severe	Steady
Labha	Mahananda	Katihar	Severe	Rising

Assam

Current flood situation as per CWC site network is as given below:

CWC Site	River	District	Flood Type	Trend in Water Level
DRF	Puthimari	Baksa	Extreme	Steady
Dhubri	Brahmaputra	Dhubri	Severe	Rising
Tezpur	Brahmaputra	Sonitpur	Severe	Falling
Neamatighat	Brahmaputra	Jorhat	Severe	Steady
Margherita	Buridehing	Tinsukia	Severe	Rising
Sivasagar	Dikhow	Sivasagar	Severe	Rising
Guwahati	Brahmaputra	Kamrup	Above Normal	Rising
Goalpara	Brahmaputra	Goalpara	Above Normal	Rising
Nanglmoraghat	Desang	Sivasagar	Above Normal	Rising
NT Road Crossing	Jiabharali	Sonitpur	Above Normal	Rising
Beki Road Bridge	Beki	Barpeta	Above Normal	Rising

Odisha

Due to existence of upper cyclonic circulation over Odisha northern Odisha districts such as **Sundargarh, Deogarh, Baragarh, Nuaparha, Balangir, Jharsuguda, Subarnapur** are expected to receive very heavy rains. Hence alert for water level rise may be kept in rivers such as Brahmani & Baitarni, Mahanadi and other small rivers in the region.

Madhya Pradesh

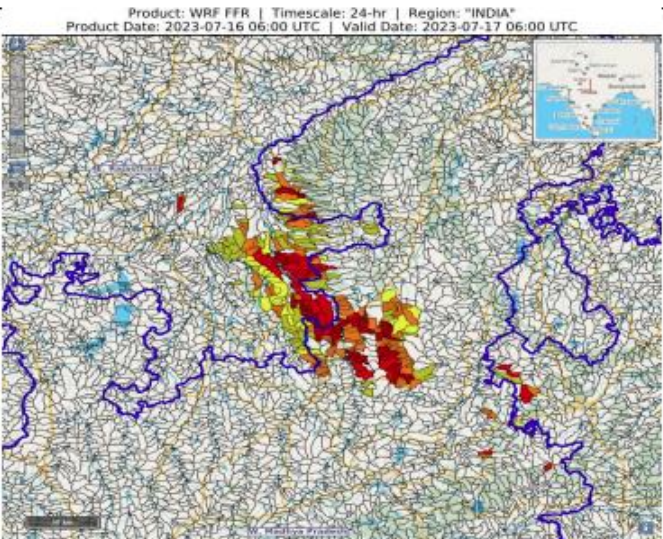
IMD has predicted heavy rainfall in **Sheopur Kalan, Shivpuri, Guna, Vidisha, Raisen, Jabalpur, Mandla, Balaghat, Seoni, Chhindwara, Betul, Harda, Sagar, Chhatarpur, Panna, Satna, Katni, Umaria, Jabalpur, Dindori** districts. Keep alert for water level rise in Ton, Betwa, Son, Narmada, Wainganga, Tapi and other small rivers in the region.

2.3 Flash Flood Guidance

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 17-07-2023 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of **East Rajasthan and adjoining West Madhya Pradesh** Met Sub-divisions during next 24 hours.

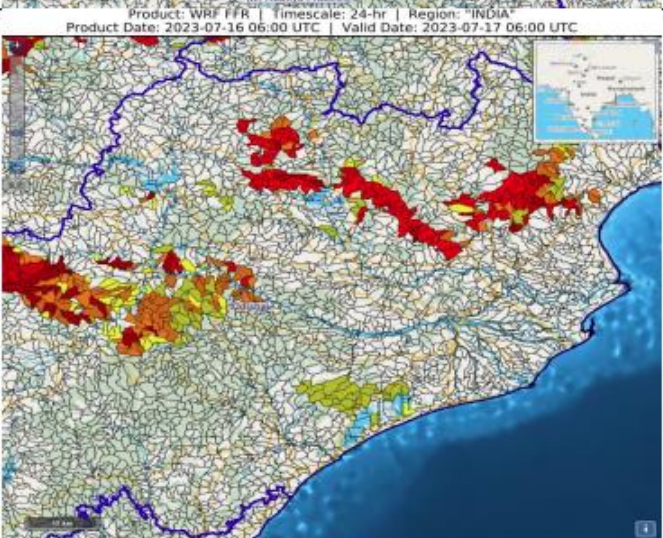
Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.



24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 17-07-2023 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of **Odisha** Met Sub-divisions during 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 Advisory Flood Forecast for next 5 days in Table form

The flood situational Flood Forecasting Stations likely to be above warning level for next 5 days:

S.No.	Station	RivEr	DiStrict	StatE	17-07-2023	18-07-2023	19-07-2023	20-07-2023	21-07-2023
1	KACHHLABRIDGE	GANGA	Budaun	Uttar PradEsh	E	S	S	S	S
2	NT ROAD CROSSING JIA-BHARALI	JIABHARALI	SONITPUR	ASSam	AN	AN	AN	AN	AN
3	SIVASAGAR	DIKHOW	SIVSAGAR	ASSam	S	S	S	S	S
4	BALTARA	KOSI	Khagaria	Bihar	S	AN	AN	AN	AN
5	BENIBAD	BAGMATI	Muzaffarpur	Bihar	S	S	S	S	S
6	DELHI RAILWAY BRIDGE	YAMUNA	North	NCT of DELhi	S	S	S	S	S
7	DHENGGRAGHAT	MAHANANDA	Purnia	Bihar	S	S	AN	AN	N
8	FATEHGARH	GANGA	Farrukhabad	Uttar PradEsh	AN	AN	S	S	S
9	JHAWA	MAHANANDA	Katihar	Bihar	S	AN	N	N	N
10	MATHURA (PRAYAG GHAT)	YAMUNA	Mathura	Uttar PradEsh	S	S	S	S	S
11	DUMARIAGHAT	GANDAK	GopalgANj	Bihar	S	S	S	AN	AN
12	BADATIGHAT	SUBANSIRI	LAKHIMPUR	ASSam	S	S	S	AN	AN
13	BEKI ROAD BRIDGE	BEKI	BARPETA	ASSam	S	S	S	AN	AN
14	CHENIMARI (KHOWANG)	BURIDEHING	DIBRUGARH	ASSam	S	S	S	S	AN
15	GUWAHATI(D.C.COURT)	BRAHMAPUTRA	KAMRUP	ASSam	AN	S	S	S	S
16	NANGLAMORAGHAT	DESANG	SIVSAGAR	ASSam	S	S	S	AN	AN
17	NEAMATIGHAT	BRAHMAPUTRA	JORHAT	ASSam	S	S	S	S	S
18	NUMALIGARH	DHANSIRI (SOUTH)	GOLAGHAT	ASSam	S	S	S	S	AN
19	TEZPUR	BRAHMAPUTRA	SONITPUR	ASSam	S	S	S	S	S
20	DHUBRI	BRAHMAPUTRA	DHUBRI	ASSam	S	S	S	S	S
21	RANGANADI NT ROAD CROSSING	RANGANADI	LAKHIMPUR	ASSam	S	S	S	S	S
22	ARARIA	PARMAN	ARARIA	Bihar	S	S	AN	AN	AN
23	GOLOKGANJ	SANKOSH	DHUBRI	ASSam	AN	S	S	AN	AN
24	DOWLAISWARAM (STATE GOVT SITE)	GODAVARI	EAST GODAVARI	Andhra PradEsh	N	N	N	AN	AN
25	ANKINGHAT	GANGA	KANPUR NAGAR	Uttar PradEsh	AN	AN	AN	AN	N
26	AYODHYA	GHAGRA	AYODHYA	Uttar PradEsh	AN	AN	AN	AN	AN
27	BASUA	KOSI	Supaul	Bihar	AN	AN	AN	AN	AN
28	DABRI	RAMGANGA	Shahjahanpur	Uttar PradEsh	AN	AN	N	N	N

29	DARAULI	GHAGRA	Siwan	Bihar	N	N	AN	AN	AN
30	ELGINBRIDGE	GHAGRA	BARABANKI	Uttar PradEsh	AN	AN	AN	AN	AN
31	GARHMUKTESHWAR	GANGA	Hapur	Uttar PradEsh	AN	AN	AN	AN	AN
32	KHADDA	GANDAK	KuShinagar	Uttar PradEsh	AN	N	N	N	N
33	REWAGHAT	GANDAK	MUZAFFARPUR	Bihar	N	AN	AN	AN	N
34	TURTIPAR	GHAGRA	Ballia	Uttar PradEsh	N	AN	AN	AN	AN
35	DHENG BRIDGE	BAGMATI	Sitamarhi	Bihar	N	AN	AN	AN	N
36	RUNISAIDPUR	BAGMATI	MUZAFFARPUR	Bihar	AN	AN	AN	AN	AN
37	MORADABAD	RAMGANGA	Moradabad	Uttar PradEsh	AN	AN	AN	AN	AN
38	DIBRUGARH	BRAHMAPUTRA	DIBRUGARH	ASSam	AN	AN	AN	AN	AN
39	GOALPARA	BRAHMAPUTRA	GOALPARA	ASSam	AN	AN	AN	AN	AN
40	PUTHIMARI NH RD XING	PUTHIMARI	KAMRUP	ASSam	AN	AN	AN	AN	N
41	MEKHLIGANJ (R_B)	TEESTA	KOCHBIHAR	WEst BEngal	AN	AN	AN	AN	AN

Abbreviation: N: Normal Flood Situation, AN: Above Normal Flood Situation, S: Severe Flood Situation, E: Extreme Flood Situation

For more details, please visit <https://ffs.india-water.gov.in/> for flood forecast monitoring & short range flood forecast and <https://aff.india water.gov.in/> for medium range flood forecast.

Extreme Flood Situation: (Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalled).

Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL)).

Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level).

4.0 Storage Position in Dams where Inflow forecast is being issued by CWC as on 16th July2023

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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Sl. No.	Reservoir/Dams	River/Sub-Basin /Basin	State	US/ DS District	Rainfall situation				
					Day 1	Day 2	Day 3	Day 4	Day 5
1	PD Jurala	Krishna/Middle Krishna/Krishna	Tel	Raichur (Kar)/JogalambaGadwal(Telangana)					
2	Musi	Musi/Lower Krishna/Krishna	Tel	Nalgonda					
3	SripadaYellampally	Godavari/Middle Godavari/Godavari	Tel	Mancherla/JaishankarBhupalpally					
4	Sunkesula	Tungabhadra/Krishna	AP	Kurnool/Raichur(Kar)/JogalambaGadwal(Telangana)					
5	Pulichinthala	Krishna/Lower Krishna/Krishna	AP	Nalgonda/Guntoor , Krishna (A P)					
6	Thottapalli Reservoir	Vaigai/Upper Vaigai/East flowing rivers south of Cauvery Basin	AP	Vizianagaram					
7	Prakasam Barrage	Krishna/Lower Krishna/Krishna	AP	Eluru / Guntoor/ West Godavari					
8	Gotta Barrage	Vamsadhara/Vamsadhara/EFR (Mahanadi to Pennar)	AP	Srikakulam					
9	Karanja Dam	Karanja/Manjira/Godavari	kar	Bidar (Kar), Vikarabad(Telangana)/Bidar(Kar)Bidar					
10	Sathnur	Ponnaiar/Middle South Pennar/East flowing rivers between Pennar and Cauvery Basin	TN	Vizianagaram					
11	Dantiwada Dam	Banas/Western Flowing River (Kutch & Saurashtra)	Guj	Banaskantha					
12	Dharoi Dam	Sabarmati/Sabarmati Basin	Guj	Mehsana					
13	Shetrunji Dam	Shetrunji/WFR (Kutch & Saurashtra)	Guj	Bhavnagar					
14	Sardar Sarovar Dam	Narmada/Narmada b/w Hosangabaad to SSP/Narmada	Guj	Nrmada(Guj), Nadurbar(MP)/Narmada, Vadodra, Bharuch (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

