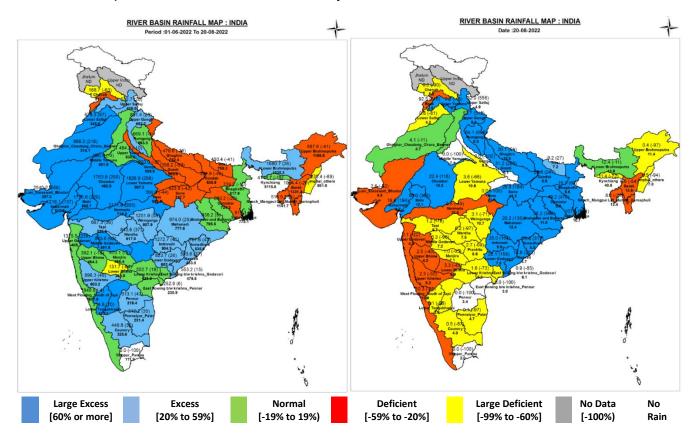


# Central Water Commission Daily Flood Situation Report cum Advisories 20-08-2022

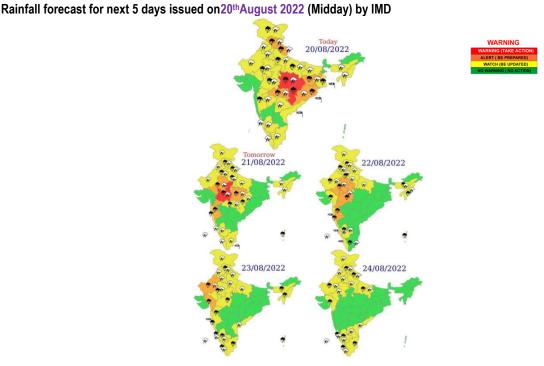
#### 1.0 Rainfall Situation

1.2

### 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.



- i) Isolated extremely heavy rainfall over East Rajasthan on 22 th; over West Madhya Pradesh on 21st; East Madhya Pradesh and Chhattisgarh on 20 th August, 2022.
- ii) Isolated very heavy rainfall over Himachal Pradesh and Uttarakhand on 20th; West Rajasthan on 23rd; East Rajasthan on 20th & 21st; West Madhya Pradesh on 22nd; East Madhya Pradesh on 21st; Vidarbha, Jharkhand and Odisha on 20th August, 2022.

#### 2.0 Flood Situation and Advisories

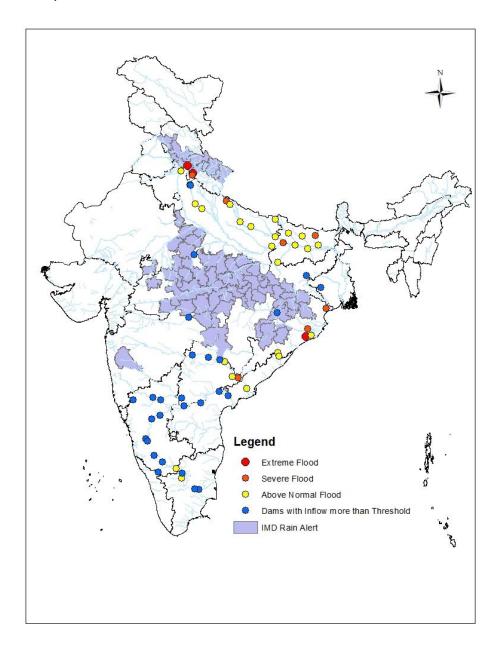
### 2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 20<sup>th</sup> August 2022, 05stations (2 in Odisha, 1each in Andhra Pradesh, Bihar & Uttar Pradesh) are flowing in Severe Flood Situation, 20 stations (8 in Bihar, 7 in Uttar Pradesh, 3 in Odisha, 1 in Andhra Pradesh & Assam) are flowing in Above Normal Flood Situation). Inflow Forecast has been issued for 30 Barrage & Dams (10 in Karnataka, 5 in Andhra Pradesh & Telangana, 3 in Tamilnadu, 2 in Jarkhand & Uttar Pradesh, 1 each in Maharashtra, Odisha and & West Bengal).

	FLOOD SITUATION SUMMARY						
PART - I:	LEVEL FORECAST						
S.No.	Flood Situations	Numbers of Forecasting Sites					
A	Extreme Flood Situation:	0					
A	(Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalled)	U					
В	Severe Flood Situation:	5					
В	(Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	5					
С	Above Normal Flood Situation:	20					
C	(Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	20					
	25						
PART - II:	PART - II: INFLOW FORECAST						
Number o	30						
(Where Inf	Where Inflows are equal or exceed the specified Threshold Limit for a particular reservoir / barrage)						

Details are given at link:http://cwc.gov.in/sites/default/files/cfcrcwcdfb20-08-2022\_3.pdf

### 2.1.1 Flood Situation Map



#### 2.2 CWC Advisories

#### Odisha

IMD has predicted very heavy rains over Odisha and since, the region has already faced a heavy rainfall scenario in immediate past, more alert for water level rise in the rivers may be kept for the incoming rainfall scenario. Rainfall will be witnessed more in Northern rivers of Odisha such as Brahmani, Baitarni & Mahanadi. Hence, alert for water level rise may be kept in rivers, Mahanadi (Bargarh, Sambalpur, Angul, Sonepur, Boudh, Bolangir, Jharsuguda, Kalahandi, Kandhamal, Nuapada, Sundargarh dists.), Brahmani & Baitarni (Keonjhar, Sundargarh, Sambalpur, Deograh dists.) and their tributaries in above said districts.

District	CWC Site	River	Flood Situation	Water level
				Trend
Puri	Kanas	Daya (Mahanadi Basin)	Extreme	Steady
Baleshwar	Mathani Rd Bridge	Jalka (Subarnarekha	Severe	Rising
		basin)		
Gajapati	Kashinagar	Vamsadhara	Severe	Rising
Cuttack	Naraj	Mahanadi	Above Normal	Rising
Baleshwar	Govindpur	Burhabalang	Above Normal	Rising
Rayagada	Gunupur	Vamsadhra	Above Normal	Rising

#### Chhattisgarh

Mahanadi basin is expected to receive extremely heavy rains. Since, the region has already faced a heavy rainfall scenario in immediate past, more alert for water level rise im the rivers may be kept for the incoming rainfall scenario. Hence, alert for water level rise may be kept for rivers Mahanadi and its tributaries in districts **Bilaspur**, **Mungeli**, **Korba** districts, river Brahmani in **Jashpur** districts.

#### Madhya Pradesh

State in its northern part is expected to receive another extremely heavy to very heavy rainfall spell. Since, the region has already faced a heavy rainfall scenario in immediate past, more alert for water level rise in the rivers may be kept for the incoming rainfall scenario. More rainfall will be witnessed in the catchment of rivers Betwa, Ken, Tons, Sone, upper & middle Narmada and Wainganga basin in first 2 days and then the rainfall will shift to western Madhya Pradesh. Alert for water level rise may be kept in river Narmada in Narasinghapur, Hoshangabad, Dindori, Jabalpur, Chinndwara, Seoni, Annupur, Harda, Narmadapuramvand Mandla dists., river Tons in Satna, Rewa dists., river Sone in Shahdol, Annupur,bSidhi, Umaria, Katni and Singrauli districts, river Sindh in Morena, Bhind, Gwalior, Datia, Ashoknagar and Vidisha dists., river Wainganga in Balaghat, Seoni, Chhindwara, Mandla dists., river Chambal in Rajgarh, Agarmalwa, Shajapur, Shehore, Shivpuri, Guna districts.

#### Maharashtra

Wainganaga basin is expected to receive very heavy rains. Since, the region has already faced a heavy rainfall scenario in immediate past, more alert for water level rise in the rivers may be kept for the incoming rainfall scenario. Alert for water level rise may be kept in river Wainganga and its tributaries in districts **Bhandara**, **Gadchiroli**, **Nagpur and Gondia**, districts.

#### **Jharkhand**

Due to advent of a pressure system, southern districts of Jharkhand is expected to receive very heavy rains. Alert for water level rise may be kept in rivers Sankh, South Koel, Kharkar and Subernarekh and its tributaries in districts **Simdege, Gumla, Paschim Singhbhum, Purbi Singhbhum and Saraikela** districts.

#### **Himachal Pradesh**

Alert for water level rise associated with flash floods may be kept in rivers Satiuj, Tons, Beas and its tributaries in districts Hamirpur, Bilaaspur, Champa, Kangra, Mandi, Solan, Shimla and Sirmaur districts.

#### **Uttarakhand**

IMD has predicted increased rainfall in most of the districts of Uttarakhand hence keep alert for flash flood occurrences in Gauri Ganga, Ramganga, Kali, Alaknanda and other tributaries of upper Ganga basin in Uttarakhand. At CWC site Kalsi river Amlav (Ganga basin) in **Dehradun** district is flowing in <u>extreme flood situation</u> with steady trend.

#### 2.3. Flash Flood Guidance

# 36 hours Outlook for the Flash Flood Risk (FFR) till 2330 IST of 21.08.2022:

Moderate Flash Flood Risk over Himachal Pradesh, Uttarakhand, Himachal Pradesh and Jammu & Kashmir Met Sub-divisions likely in next 36 hours.

Product WRF FFR | Timescale: 36-hr | Region: \*INDIA\*\*

Product WRF FFR | Timescale: 36-hr | Region: \*INDIA\*\*

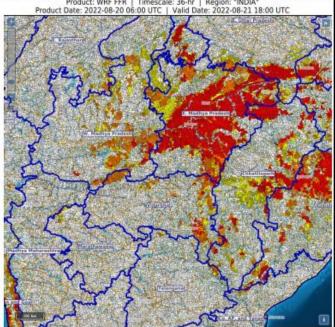
Product WRF FFR | Timescale: 36-hr | Region: \*INDIA\*\*

Product WRF FFR | Timescale: 36-hr | Region: \*INDIA\*\*

Moderate Flash Flood Risk over Chhattisgarh and West Madhya Pradesh Met Sub-divisions likely in next 36 hours.

Moderate to High Flash Flood Risk over East Madhya Pradesh Met Sub-divisions likely 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 persistent rainfall in next 24 hours.



## 3.0 Advisory Flood Forecast for next 5-days

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

	_	_			21-08-	22-08-	23-08-	24-08-	25-08-
S.No.	Station	River	District	State	2022	2022	2022	2022	2022
1	KACHHLABRIDGE	GANGA	Budaun	Uttar Pradesh	S	S	S	S	S
2	NARAJ	MAHANADI	Cuttack	Odisha	S	S	S	S	S
				ANDHRA					
3	KUNAVARAM	GODAVARI	EAST GODAVARI	PRADESH	S	S	S	S	S
4	BALLIA	GANGA	Ballia	Uttar Pradesh	S	S	S	AN	AN
5	BANDA	KEN	Banda	Uttar Pradesh	N	S	S	S	N
6	BASUA	KOSI	Supaul	Bihar	S	S	S	S	S
7	DELHI_RLY_BRG	YAMUNA	North	NCT of Delhi	S	S	S	S	AN
8	FATEHGARH	GANGA	Farrukhabad	Uttar Pradesh	AN	AN	AN	S	S
9	GARHMUKTESHWAR	GANGA	Jyotiba Phule Nagar	Uttar Pradesh	S	S	S	S	AN
10	HARIDWAR	GANGA	Hardwar	Uttarakhand	S	N	N	N	N
11	HATHIDAH	GANGA	Patna	Bihar	AN	S	S	S	S
12	KAHALGAON	GANGA	Bhagalpur	Bihar	N	N	AN	AN	S
		BURHI							
13	KHAGARIA	GANDAK	Khagaria	Bihar	N	AN	S	S	S
14	KURSELA	KOSI	Katihar	Bihar	N	N	AN	AN	S
15	MANER	SONE	Bhojpur	Bihar	AN	AN	S	S	AN
16	PATNAGANDHIGHAT	GANGA	Patna	Bihar	S	S	S	S	S
17	RISHIKESH	GANGA	Dehradun	Uttarakhand	S	N	N	N	N
18	RUNISAIDPUR	BAGMATI	Sitamarhi	Bihar	AN	AN	AN	AN	S
19	DHOLPUR	CHAMBAL	Dholpur	Rajasthan	N	N	N	AN	S
20	ANANDPUR	BAITRANI	Kendujhar	Odisha	S	N	N	N	N
21	AKHUAPADA	BAITRANI	Jajapur	Odisha	S	S	N	N	N
				Madhya					
22	MANDLA	NARMADA	Mandla	Pradesh	N	S	S	S	N
				Madhya					
23	HOSHANGABAD	NARMADA	Hoshangabad	Pradesh	N	N	S	S	N
24	BHARUCH	NARMADA	Bharuch	Gujarat	N	N	N	S	S
25	PURUSHOTTAMPUR	RUSHIKULYA	Ganjam	Odisha	S	N	N	N	N
26	GUNUPUR	VAMSADHARA	Rayagada	Odisha	S	N	N	N	N
27	KASHINAGAR	VAMSADHARA	Srikakulam	Andhra Pradesh	S	N	N	N	N
28	SRIKAKULAM	NAGAVALLI	Srikakulam	Andhra Pradesh	S	AN	N	N	N

29	MATHANIRB	JAMIRA	Baleshwar	Odisha	S	S	S	S	S
30	ALIPINGAL	DEVI	Jagatsinghapur	Odisha	AN	AN	AN	AN	AN
31	NIMAPARA	KUSHABHADRA	Puri	Odisha	AN	AN	AN	AN	AN
32	BHADRACHALAM	GODAVARI	BHADRADRI KOTHAGUDEM	TELANGANA	AN	AN	AN	AN	AN
33	DOWLAISWARAM	GODAVARI	EAST GODAVARI	ANDHRA PRADESH	AN	AN	AN	AN	AN
34	ANKINGHAT	GANGA	Hardoi	Uttar Pradesh	N	N	N	AN	AN
35	AYODHYA	GHAGRA	Faizabad	Uttar Pradesh	AN	AN	AN	AN	AN
36	BALTARA	KOSI	Khagaria	Bihar	AN	AN	AN	AN	AN
37	BENIBAD	BAGMATI	Muzaffarpur	Bihar	AN	AN	AN	AN	AN
38	BHAGALPUR	GANGA	Bhagalpur	Bihar	N	N	AN	AN	AN
39	BUXAR	GANGA	Buxar	Bihar	AN	AN	N	N	N
40	DIGHAGHAT	GANGA	Patna	Bihar	AN	AN	AN	AN	AN
41	ELGINBRIDGE	GHAGRA	Bahraich	Uttar Pradesh	AN	AN	AN	AN	AN
42	GHAZIPUR	GANGA	Ghazipur	Uttar Pradesh	AN	AN	N	N	N
43	HAJIPUR	GANDAK	Saran (chhapra)	Bihar	N	N	AN	AN	AN
44	JHANJHARPUR	KAMLA	Madhubani	Bihar	AN	AN	AN	N	AN
45	KHADDA	GANDAK	Kushinagar	Uttar Pradesh	AN	N	N	N	N
46	MATHURA_PG	YAMUNA	Mathura	Uttar Pradesh	N	N	AN	AN	AN
47	MUNGER	GANGA	Munger	Bihar	N	N	AN	AN	AN
48	SAHIBGANJ	GANGA	Sahibganj	Jharkhand	N	N	N	AN	AN
49	TURTIPAR	GHAGARA	Ballia	Uttar Pradesh	AN	AN	AN	AN	AN
50	DUMARIAGHAT	GANDAK	Gopalganj	Bihar	AN	AN	AN	AN	N
51	DHENG_BRIDGE	BAGMATI	Sitamarhi	Bihar	AN	AN	AN	AN	AN
52	BEKI_NH_CROSSING	BEKI	Barpeta	Assam	AN	AN	AN	AN	AN
53	KHOWANG	BURIDEHING	Dibrugarh	Assam	N	N	N	N	AN
54	NUMALIGARH	DHANSARI	Golaghat	Assam	N	N	N	AN	AN
55	SHIVSAGAR	DIKHOW	Shivsagar	Assam	N	N	N	N	AN
56	ARARIA	PARMAN	Araria	Bihar	AN	AN	AN	N	AN

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

For more details, please visit <a href="https://ffs.india-water.gov.in/">https://ffs.india-water.gov.in/</a> for flood forecast monitoring & short range flood forecast and <a href="https://aff.india water.gov.in/">https://aff.india water.gov.in/</a> 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 20th August 2022

Storage above 85%
Storage above 60%



#	Reservoir/Dams	River/Sub-Basin /Basin	State	US/ DS District		Ra	infall situa	tion	
					Day 1	Day 2	Day 3	Day 4	Day 5
1	Pulichinthala	Krishna/Lower Krishna/ Krishna	AP	Nalgonda(Tel)/Guntoor,Krishna (AP)					
2	Srisailam	Krishna/Lower Krishna/Krishna	AP	JogulambaGadwal(Telangana), Kurnool(AP)/ Nalgonda(Telangana), Guntoor (AP)					
3	Somasila	Pennar/Lower Pennar/Pennar	AP	Kadapa(AP)/Nellore(AP)					
4	Madduvalasa	Nagavalli/Nagavalli/EFR Mahanadi & Godavari	AP	Vizianagaram(AP)/Srikakulam(AP)					
5	Musi	Musi/Lower Krishna/ Krishna	Tel	Nalgonda					
6	Sriramasagar	Godavari/Middle Godavari/Godavari	Tel	Nanded (Mah), Nirmal(Telangana)/Metpally, Mancherial(Telangana)					
7	SripadaYellampally	Godavari/Middle Godavari/Godavari	Tel	Mancherial/JaishankarBhupalpally					
8	Singur	Manjira/Manjira/Godavari	Tel	Bidar(Kar)/Sangareddy(Telangana)					
9	Nizamsagar	Manjira/Manjira/Godavari	Tel	Medak/Kamareddy					
10	PD Jurala	Krishna/Middle Krishna/Krishna	Tel	Raichur (Kar)/JogalambaGadwal(Telangana)					
11	Ukai	Tapi/Tapi/Tapi	Guj	Nadurbar(Mah), Tapi(Guj)/ Surat (Guj)					
12	Narayanpur	Krishna/Upper Krishna/Krishna	Kar	Bagalkot, Vijayapura/ Raichur, Yaadgir					
13	Harangi	Cauvery/Upper Cauvery/Cauvery	Kar	Kodagu/Mandya					
14	Hemavathy	Hemavathy/ Hemavathy/Cauvery	Kar	Hassan, Kodagu/Mandya, Mysore					
15	Karanja	Karanja/Manjira/Godavari	Kar	Bidar (Kar), Vikarabad(Telangana)/Bidar(Kar)					
16	Tungabhadra	Tungabhadra/Middle Tungabhadra/Krishna	Kar	Gadag/Bellary, Koppal, Raichur					
17	Kabini	Kabini/Kabini/Cauvery	Kar	Wayanad (Ker)/Mysuru(Kar)					
18	Bhadra	Bhadra/UpperTungabhadra/Krishna	Kar	Chikmagaluru/Shimoga					
19	KRS	Cauvery/Middle Cauvery/Cauvery	Kar	Mandya, Mysore					
20	Malaprabha	Malaprabha/Malaprabha/Krishna	Kar	Belgaum					
21	Hidkal	Ghataprabha/Ghataprabha/Krishna	Kar	Kolhapur (Mah)/ Belgaum (Kar)					
22	Almatti	Krishna/Upper Krishna/Krishna	Kar	Kolhapur(Maharashtra)/ Bagalkote(Karnataka)					
23	Idukki	Periyar/Upper Periyar/West flowing rivers from Tadri to Kanyakumari	Kerala	Theni (Tamil Nadu), Ernakulam					
24	Edamalayar	Edamalayar/Middle Periyar/West flowing rivers from Tadri to Kanyakumari	Kerala	Coimbatore (Tamil Nadu)					
25	Koyna	Koyna/Upper Krishna/Krishna	Mah	Satara/Kolhapur, Sangli					
<b>26</b>	Warana	Warna river/Upper Krishna/Krishna	Mah	Sangli,Kolhapur					
27	Veer	Nira/Upper Bhima/Krishna	Mah	Pune, Satara					
28	Ujjani	Bhima/Upper Bhima/Krishna	Mah	Pune, Solapur					
29	Yeldari	Purna/Purna/Godavari	Mah	Hingoli, Parbhani/Nanded					
30	Upper Wardha	Wardha/Wardha/Godavari	Mah	Wardha, Amravati					
31	Issapur	Kayadhu/Penganga/Godavari	Mah	Hingoli, Yavatmal					
32	Totladoh	Pench/Wainganga/Godavari	Mah	Chindwara(MP)/Nagpur(Mah)					
33	Jaikwadi	Godavari/Upper Godavari/Godavari	Mah	Aurangabad, Ahmadnagar/Bid, Jalna					
34	Mula	Mula/Upper Godavari/Godavari	Mah	Ahmadnagar					
35	Salandi	Salandi/Brahmani and Baitarni/Brahmani and Baitarni	Odisha	Mayurbhanj,Kendujhar/Bhadrak					
36	Hirakud Dam	Mahanadi/Lower Mahanadi/Mahanadi	Odisha	Bargarh/Sambalpur					
37	Ravi Shankar	Mahanadhi/Upper Mahanadi/Mahanadi	Chhatt	Kanker/Gariaband					
38	Bhavanisagar	Bhavani/Middle Cauvery/Cauvery	TN	Palakad (Kerala), Nilgiri(TN), Coimbatore (TN)/ Erode (TN)					
39	Mettur	Cauvery/Middle Cauvery/Cauvery	TN	Dharmapuri, Salem/Erode, Namakkal					
33	Wettur	Cauvery/Middle Cauvery/Cauvery	IN	рпаннарин, зајент/стоде, матаккај					

40	Vaigai	Vaigai/Upper Vaigai/East flowing rivers South of Cauvery Basin	TN	Theni/Madurai			
41	Sathanur Dam	Ponnaiar/Middle South Pennar/East flowing rivers between Pennar and Cauvery Basin	TN	Dharmapuri, Tiruvannamalai/Villupuram, Cuddalore			
42	SomKamlaAmba	Som/Mahi B/Mahi	Raj	Udaipur/Dungarpur			
43	RanaPratapSagar	Chambal/Upper Chambal/Ganga	Raj	Neemuch(MP)/Dholpur, Kota, Bundi(Raj)			
44	Gudha	Mejchambal/Upper Chambal/Ganga	Raj	Bhilwara/Bundi			
45	Parwati	Parbati/ Kalisindh/Upper Chambal	Raj	Baran (Raj)/Baran (Raj), Kota (Raj), Sheopur (MP)			
46	Mahi Bajajsagar Dam	Mahi/ Mahi Basin	Raj	Ratlam(MP)/Banswara, Pratapgarh, Dungapur (Raj)			
47	Gandhisagar	Chambal/Upper Chambal/Ganga	MP	Mandsaur, Neemuch (MP) / Dholpur (Raj)			
48	Tawa	Tawa/Middle Narmada/Narmada	MP	Betul,Hoshnabad/Sehore			
49	Rajghat	Betwa/Betwa/Ganga	MP	Ashoknagar(MP), Lalitpur(UP)/Shivpuri, Lalitpur(UP)			
50	Barna	Barna/Middle Narmada/Narmada	MP	Raisen/Hoshangabad,Narsinghpur			
51	Indira Sagar	Narmada/Narmada b/w Hosangabad to SSP/Narmada	MP	Harda, Dewas, Khandwa/Khargone			
52	Upper Wainganga	Wainganga/Wainganga/Godavari	MP	Seoni/Balaghat			
53	Sardar Sarovar	Narmada/Narmada b/w Hosangabad to SSP/Narmada	Guj	Narmada( Guj), Nadurbar( MP)/Narmada, Vadodra, Bharuch (Guj)			
54	Kadana Dam	Mahi/Middle Mahi/Mahi Basin	Guj	Banswara (Raj)/Mahisagar,Panchmahals(Guj)			
55	Dharoi Dam	Sabarmati /Middle Sabarmati/Sabarmati Basin	Guj	Sabarkantha/Mehsana (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.