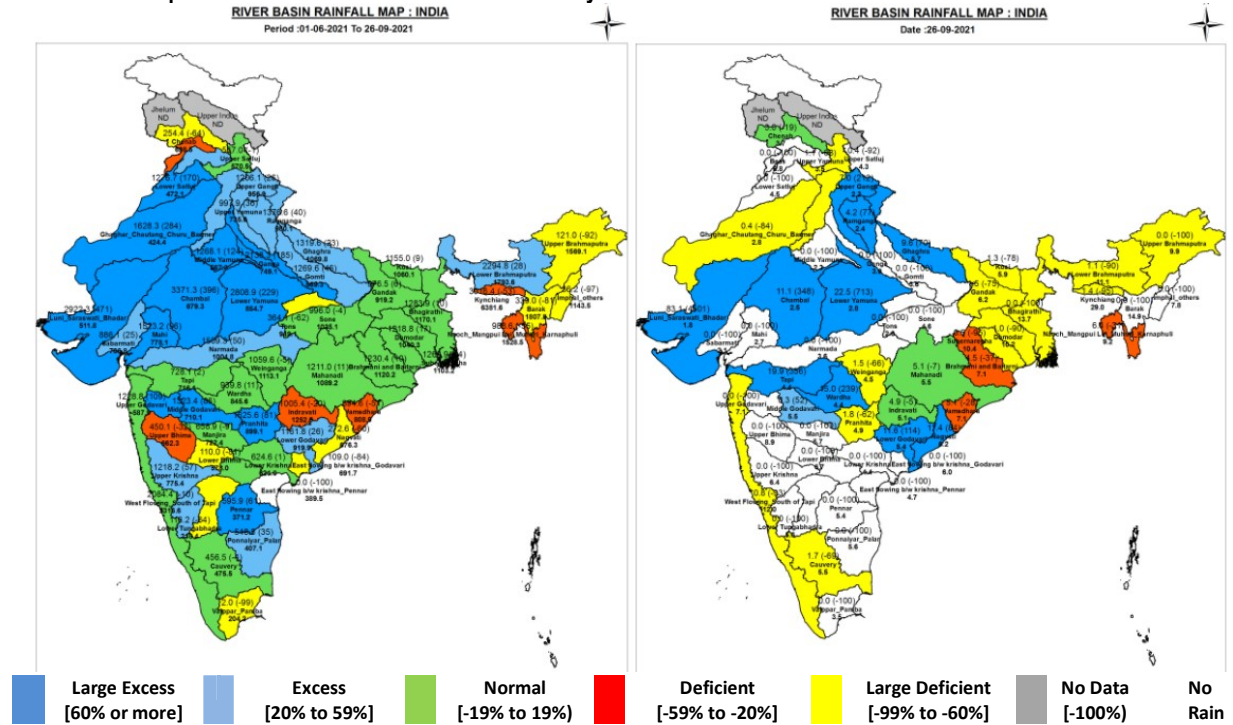




Central Water Commission
Daily Flood Situation Report cum Advisories
26-09-2021

1.0 Rainfall Situation

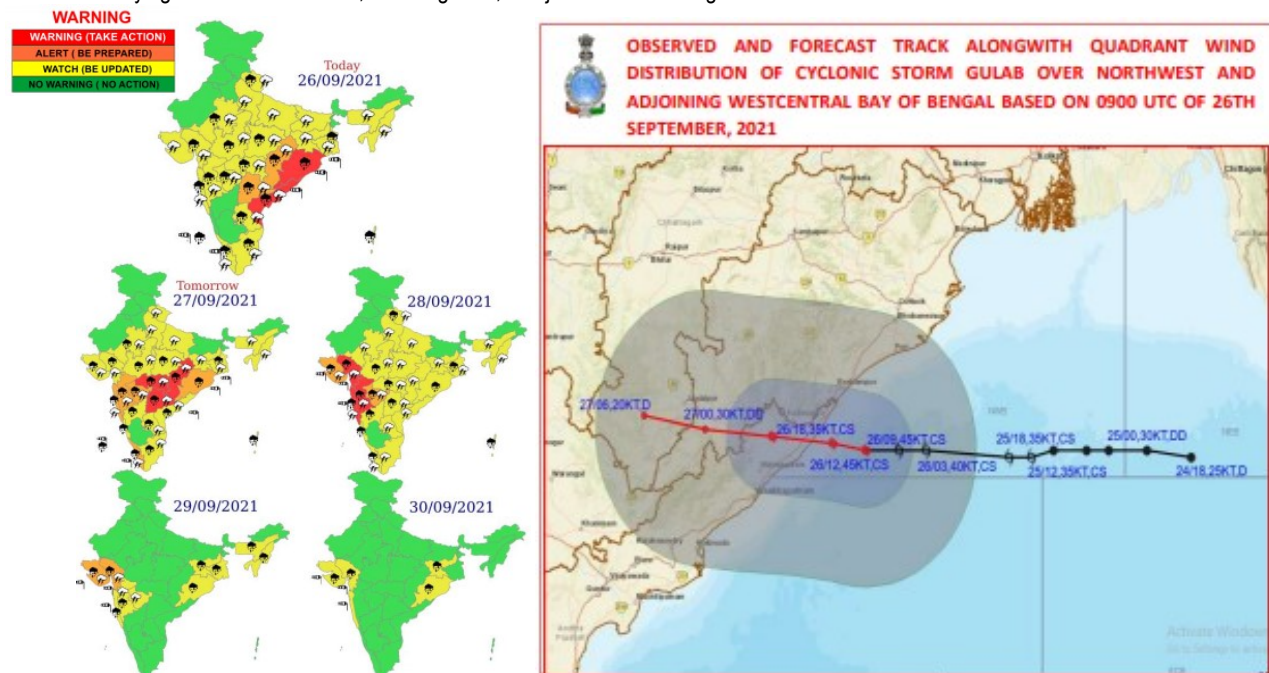
1.1 Basin wise departure from normal of cumulative and daily rainfall



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 26th September, 2021 (Midday) by IMD & Cyclonic Storm 'Gulab'

The Cyclonic Storm 'Gulab' (pronounced as Gul-Aab) is likely to move nearly westwards and cross north Andhra Pradesh - south Odisha coasts between Kalingapatnam & Gopalpur with maximum sustained wind speed of 75-85 kmph gusting to 95 kmph by mid-night of today, the 26th September, 2021. The Landfall process will commence from the evening of today. As monitored by Doppler Weather RADAR at Vishakhapatnam, Light to moderate rainfall in association with the outer spiral bands of the system has commenced over south coastal Odisha and coastal Andhra Pradesh since early morning of today and is continuing over these regions. Tidal wave of about 0.5 m height above the astronomical tide likely to inundate low lying areas of Srikakulam, Vizianagaram, Ganjam districts during the time of landfall.



- Very Heavy/Extreme Rainfall over south Odisha and Coastal Andhra Pradesh & Yanam on 26th; over Vidarbha, Telangana and south Chhattisgarh on 27th; over Gujarat State on 28th and over Gujarat State, Maharashtra, Konkan and Goa 29th September, 2021.

2.0 Flood Situation and Advisories

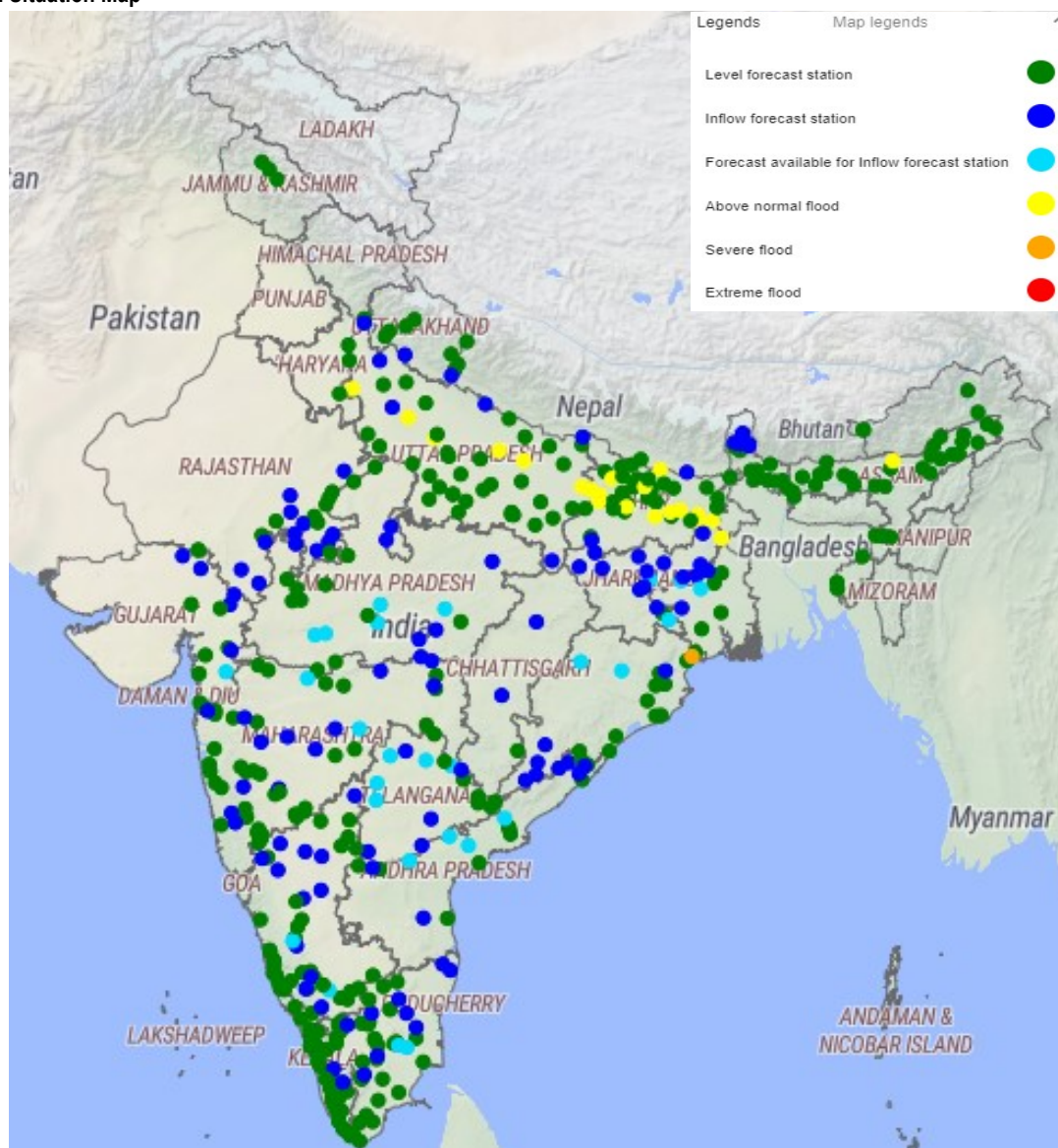
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 26th September, 2021, 1 Station in Odisha is flowing in Severe Flood Situation and 21 stations (11 in Bihar, 6 in Uttar Pradesh, 1 each in Assam, Jharkhand, NCT Delhi & West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 27 Barrages & Dams (5 each in Madhya Pradesh, Telangana, 4 in Andhra Pradesh, 3 in Jharkhand & 2 each in Karnataka, Tamilnadu, Maharashtra & Odisha and 1 each in Gujarat & West Bengal).

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))	1
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	21
Total number of sites above Warning Level (A+B+C)		22
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)		27

Details are given at link: https://cwc.gov.in/sites/default/files/cfrcwcdfb-26.09.2021-2_1.pdf

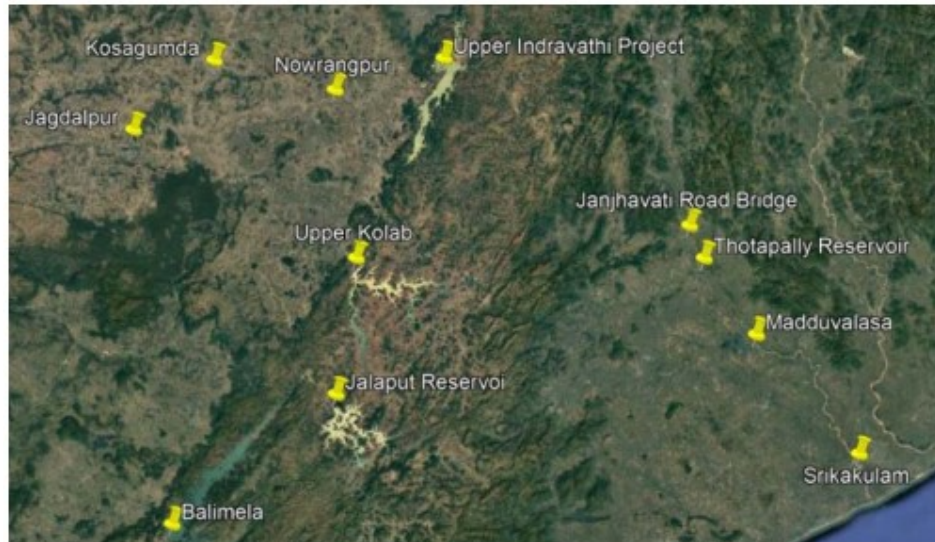
2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 East Flowing Rivers Between Mahanadi, Krishna & Godavari- Vamsadhara, Indravathi, Rushikulya, Nagavali,

CWC maintained Hydrological and Flood Forecast/monitoring stations along with reservoirs in path of cyclone are shown below.



2.2.1.1 Odisha

In Odisha, alert may be kept in river basins such as Godavari, Mahanadi and some east flowing rivers like Vamsadhara, Rushikulya, Nagavalli etc. In Mahanadi basin, Hirakud dam on Mahanadi River in Sambalpur district and Rengali Dam on Baitarni river in Angul district are having high storages, hence, releases may be done as per SOP after advance information to downstream areas. Alert may kept in Upper Kolab dam, Jalaput dam & Balimela dam. CWC site Mathani road bridge on Jalka river (Subernrekha basin) in **Balasore** district is flowing in severe flood situation with falling trend. Since **Odisha has already experience an extreme rainfall event in recent past, river basins are already in saturated conditions, hence, flood situations may be in south coastal districts of Odisha.** Alert may be in districts **Ganjam** (Bahuda, Rushikulya rivers), **Kandhamal, Kalahandi, Nayagarh, Khordha Puri** (Mahanadi river), **Gajapathi, Rayagarha** (Vamsadhara, Nagavalli rivers), **Koraput** (Nagavalli, Indravathi, Kolab rivers), **Malangiri** (Indravathi, Kolab rivers), **Nabarangapur** (Mahanadi, Indravathi rivers).

2.2.1.2 Andra Pradesh

Alert may be kept in districts **East & West Gadavari, Krishna, Srikakulam, Vizianagaram, Vishakhapatnam & Yanam.** Water level rise is expected in rivers Sarda, Godavari delta region, Banahadhara, Sileru, etc and its tributaries. Gotta Barrage, Thottapalli project, Srisailam, Pulinchinthala, Prakasam projects may receive increased inflows.

2.2.1.3 Telangana

Alert may be kept in districts **Kumaram Bheem, Mancherial, B. Kothagudam, Mahabubadi, Warangal rural & urban, Jagital, Nirmal, Nizamabad, Kamareddy, Siddipet, Jangaon, Kondagaon, Narayanpet, Khammam, Mulugu, J. Bhupalpally, Y. Bhuvanagiri, Rangareddy, Rajanna Sircilla, Medak, Sangareddy, Pedappalle, Nirmal, Vikarabad & Adilabad.** Water level rise are expected in Krishna, Godavari and its tributaries Akeru, Palleru, Bhima, Musi, Maher, Pranhita, Indravathi, Sabari etc. Major storages in Godavari basin such as Singur, Nizamsagar, Sriramsagar, Kaddam & Sripadayellampalli are having storages in the range 80 to 100%, hence, releases have to be done as per SOP after informing downstream areas.

2.2.1.4 Maharashtra

Alert may be kept in districts **Gadchiroli, Latur, Parbhani, Hingoli, Pune and Nanded.** Water level rise in expected in Godavari, Wainganga, Manjira, Purna and its tributaries. Projects such as NMD weir, Mula, Jaikwadi, Manjlegaon, Yeldari are having high storages, hence, releases have to be done as per SOP after informing downstream areas.

2.2.1.5 Chhattisgarh

Alert may be kept in districts **Bastar, Dantewara, Sukma, Bijapur.** Water level rise is expected in the rivers in the south part of Chhattisgarh mainly in Godavari and its tributaries in the state.

2.2.2 West flowing rivers from Tapi to Tadri, Tadri to Kanyakumari

2.2.2.1 Maharashtra

Due to strengthened monsoon flow, west coast is expected to receive heavy rainfall hence alert may be kept in **Nasik, Satara, Raigad and Ratnagiri** districts. Water level rise are expected in rivers Damanganga, Kajvi, Savitri, Kal, Vashisti, Bav, Wagh, Bhogeshwari and other rivers in the said region.

2.2.2.2 Kerala

Due to strengthened monsoon flow, west coast is expected to receive heavy rainfall, hence, alert may be kept in rivers of southern part of Kerala such as Bharathapuzha, Pamba, Periyar and Achankoil. Major storages in the state presently have high storages hence releases may be done as per SOP after informing downstream areas.

2.3 Flash Flood Guidance

IMD has issued Flash Flood Guidance of moderate to high risk over few watersheds and neighbourhoods of Odisha, coastal Andhra for 26.09.2021. IMD has issued Flash Flood Guidance of high risk over few watersheds and neighbourhoods of Odisha, coastal Andhra and Chhattisgarh for next 24 hours.

Forecasted Flash Flood Threat (PFFT) **Till 1730 IST of 26.09.2021:**

Moderate to High Threat very likely over few watersheds and neighborhoods in the **Srikakulam, Vizianagaram districts** of North Coastal Andhra Pradesh and adjoining **Gajapati district** of South Odisha Met Subdivisions in next 6 hours.

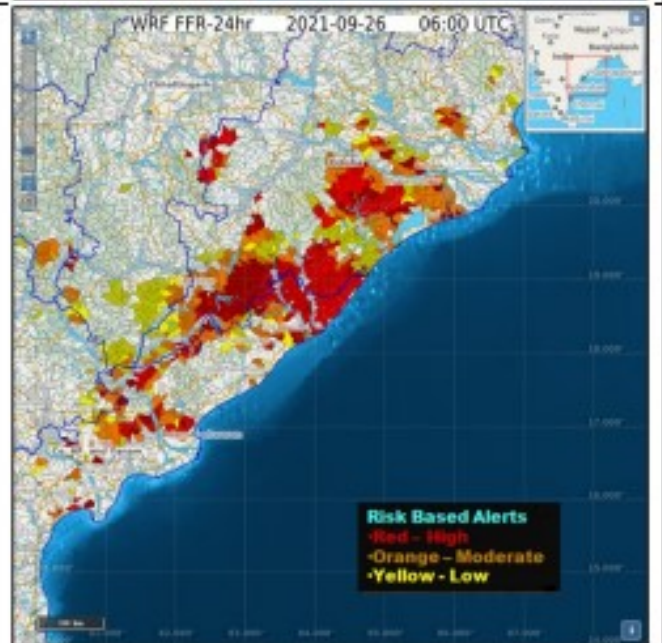
Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as depicted in map **due to the persistence rainfall of Cyclonic Storm “Gulab”** in next 6 hours.



24 hours Flash Flood Risk Outlook Till **1130 IST of 27.09.2021:**

High Risk likely over few watersheds and neighborhoods of **North Coastal Andhra Pradesh** and adjoining **South Odisha, South Chhattisgarh** 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 the expected rainfall of Cyclonic Storm “Gulab”** approaching landfall in next 24 hours.



3.0 Storage Position in Dams where Inflow forecast is being issued by CWC as on 26th September, 2021

Reservoirs shown in red are having gross storage capacity more than 90% and those in orange are having gross storage greater than 75%. 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 90%	
Storage above 75%	

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

35	RanaPratapSagar	Chambal/Upper Chambal/Ganga	Raj	Neemuch(MP)/Dholpur,Kota, Bundi(Raj)					
36	Panchana	Gambhiri/Upper Chambal/Ganga	Raj	Karauli					
37	Gudha	Mejchambal/UpperChambal/Ganga	Raj	Bhilwara/Bundi					
38	Kalisindh	Kalisindh/Upper Chambal/Ganga	Raj	Jhalawar, Kota					
39	MahiBajajsagar	Mahi/Mahi B/Mahi	Raj	Ratlam(MP)/Banswara, Pratapgarh,Dungapur (Raj)					
40	SomKamlaAmba	Mahi/Mahi B/Mahi	Raj	Udaipur/Dungarpur					
41	Gambhiri	Gambhiri/Upper Chambal/Ganga	Raj	Chittorgarh					
42	Gandhi Sagar	Chambal/Upper Chambal/Ganga	MP	Mandsaur,Neemuch(MP)/Dholpur(Raj)					
43	Bargi	Narmada/Upper Narmada/Narmada	MP	Mandla, Seoni/Jabalpur, Narsimhapur					
44	Tawa	Tawa/Middle Narmada/Narmada	MP	Betul,Hoshnabad/Sehore					
45	Barna	Barna/Middle Narmada/Narmada	MP	Raisen(MP)					
46	Hathnur	Hatnur/Upper Tapi/Tapi	Mah	Burhanpur (MP)/Jalgaon(Mah)					
47	Rajghat	Betwa/Betwa/Ganga	MP	Ashoknagar(MP), Lalitpur(UP)/Shivpuri, Lalitpur(UP)					
48	Bansagar Dam	Sone./Sone/Ganga	MP	Katni, Umaria, Shahdol, Satna/ Rewa, Sidhi					
49	Upper Wainganga (Sanjay Sarovar)	Wainganga/Wainganga/Godavari	MP	Seoni/Balaghat					
50	Bhavanisagar	Bhavani/Middle Cauvery/Cauvery	TN	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)					
51	Rengali	Brahmani River/Brahmani and Baitarni/Brahmani and Baitarni	Odisha	Deogarh/Angul, Dhenkanal					
52	Hirakud	Mahanadi River/Upper Mahanadi/Mahanadi	Odisha	JanjgirChampa, Raigarh(Chsgrh), Jharsuguda, Bargarh, Sambalpur(Odisha)/Subarnapur, Baudh, Anugul (Odisha)					
53	Nizamsagar	Manjira/Manjira/Godavari	Tel	Medak/Kamareddy					
54	Ukai	Tapi/Lower Tapi/Tapi	Guj	Nadurbar(Mah), Tapi(Guj)/ Surat (Guj)					
55	Madhuban	Damanganga/Damanganga/West Flowing Rivers from Tapi to Tadri	Guj	Valsad (Guj)/Selvasa (UT of DNH)					
56	Edamalayar	Upper Periyar/Periyar/Periyar	Ker	Coimbatore/Ernakulam					
57	Idukki	Periyar/Upper Periyar/West Flowing Rivers from Tadri to Kanyakumari	Ker	Idduki/Ernakulam					
58	Somasila	Pennar/Lower Pennar/Pennar	AP	Kadapa(AP)/Nellore(AP)					
59	Jaikwadi	Godavari/Upper Godavari/Godavari	Mah	Aurangabad, Ahmadnagar/Bid, Jalna					
60	Bango	Hasdeo/Upper Mahanadi/Mahanadi	Chtgrh	Koriya,Korba/JanjgirChampa					
61	Kadana	Mahi/Mahi B/Mahi	Guj	Banswara(Raj)/ MahiSagar, PanchMahal(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.