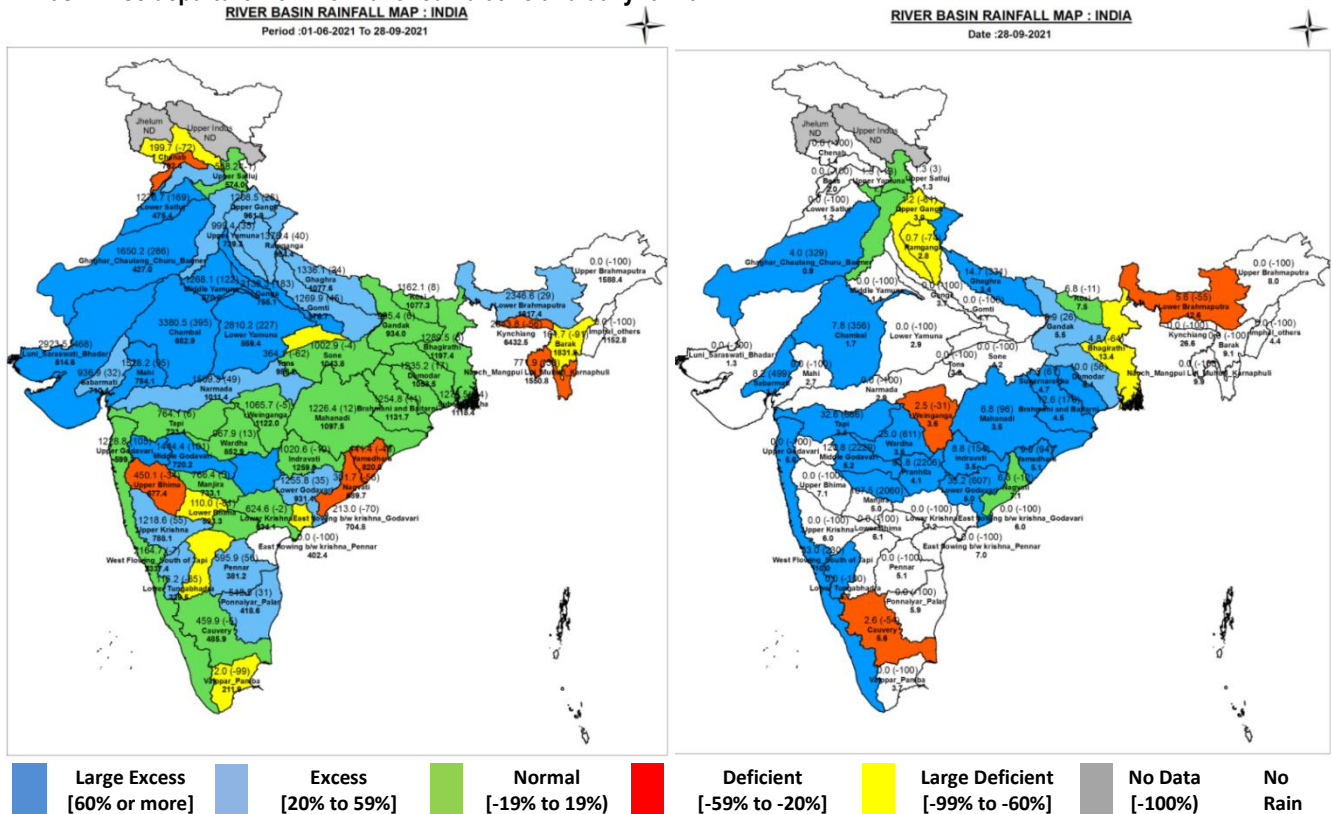




Central Water Commission
Daily Flood Situation Report cum Advisories
28-09-2021

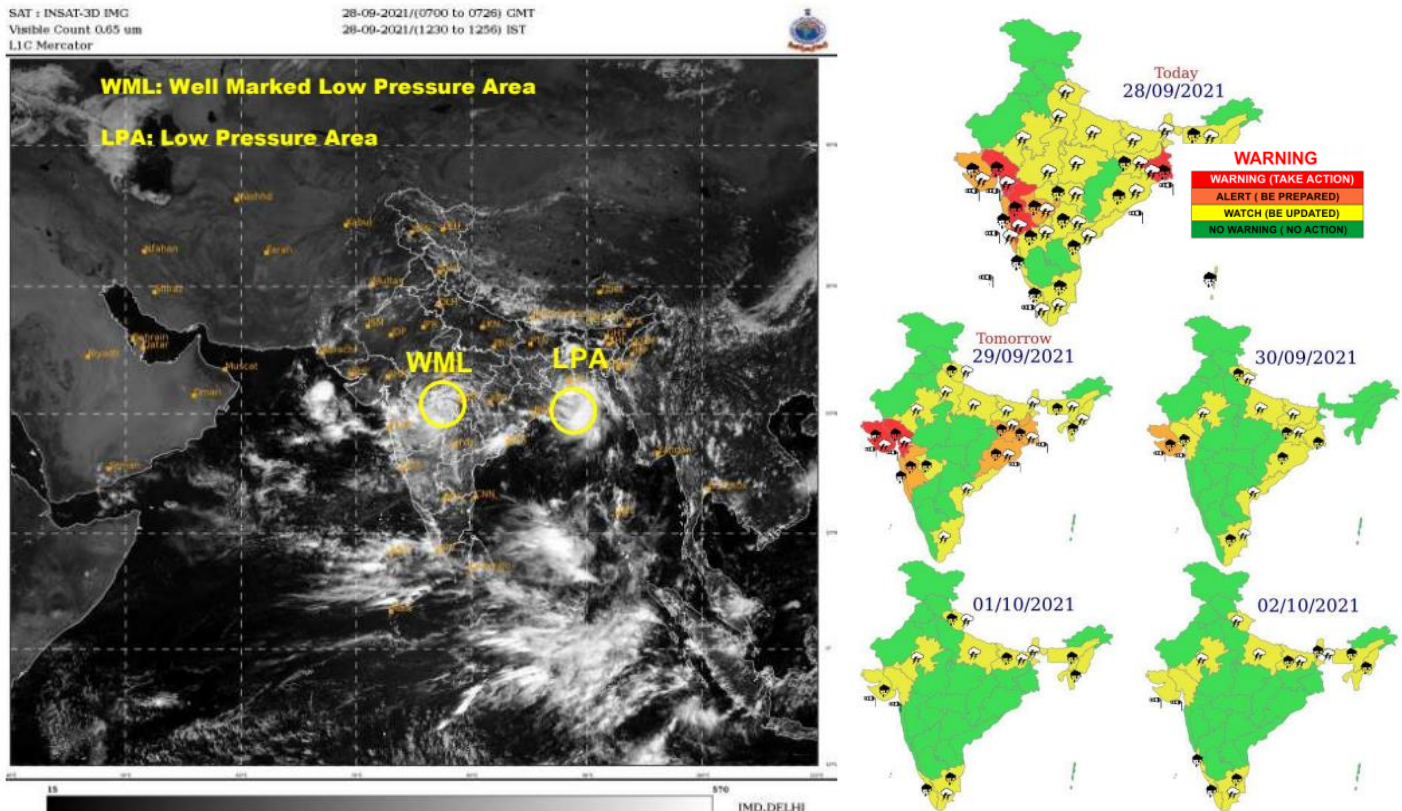
1.0 Rainfall Situation

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 28th September, 2021 (Midday) by IMD



- Extremely/Very Heavy Rainfall over Gujarat region, north Madhya Maharashtra, north Konkan and Gangetic West Bengal on 28th & 29th; Saurashtra & Kutch during 28th-30th; Marathwada on 28th; Odisha and Jharkhand on 29th September, 2021

2.0 Flood Situation and Advisories

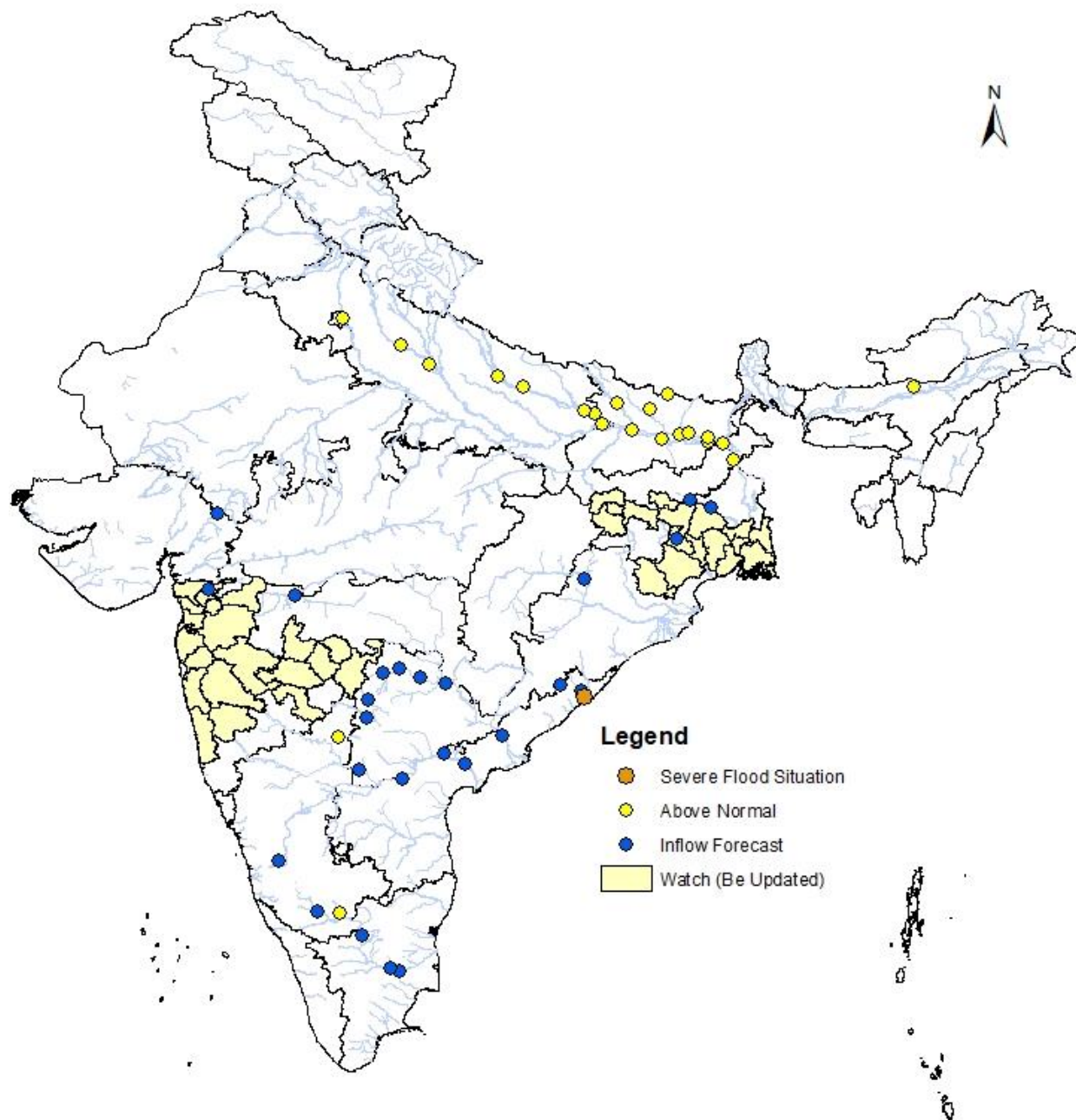
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 28th September, 2021, 1 Station in Andhra Pradesh is flowing in Severe Flood Situation and 22 stations (10 in Bihar, 6 in Uttar Pradesh, 2 in Karnataka, 1 each in Assam, Delhi, Jharkhand & West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 24 Barrages & Dams (7 in Telangana, 5 in Andhra Pradesh, 3 each in Jharkhand & Tamilnadu, 2 in Karnataka and 1 each in Gujarat, Maharashtra, Odisha & 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))	1
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	22
Total number of sites above Warning Level (A+B+C)		23
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)		24

Details are given at link: http://cwc.gov.in/sites/default/files/cfcrwcdfb-28.09.2021_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 West Flowing Rivers of Damanganga, Tapi, Narmada, Mahi Sabarmati, West Banas and of Saurashtra – Gujarat, Maharashtra

2.2.1.1 Maharashtra

Due to westward propagation of depression the heavy rainfall has also shifted. Water level rise is expected in Tapi, Narmada & Damanganga. Alert may be kept in districts **Jalgaon, Dhule, Nandurbar** (Tapi, Panzra rivers), **Nashik (Damanganga)**. Projects Hathnur is having high storages, hence, releases have to be done as per SOP after informing downstream areas in advance. In west flowing rivers from Tapi to Tadri, water level rise are expected in rivers Ulhas, Damanganga, Kajvi, Savitri, Kal, Vashisti, Bav, Wagh, Bhogeshwari and other flashy rivers in the said region. Alert may be kept in districts **Thane, Nasik, Satara, Raigad, Palghar** and **Ratnagiri** districts.

2.2.1.2 Gujarat

Alert may be kept in districts **Navsari, Valsad, Dangs, Narmada, Surat, Tapi, Banaskantha, Patan, Mehsana, Jamnagar & Amreli** for next 2 to 3 days. Water level rise is expected in major rivers and its tributaries such as Tapi, Lower Narmada, Damanganga, West Banas, Mahi, Sabarmati, rivers of Saurashtra such as Malan, Shetrunji and other small rivers in the area. Ukai, Kadana, Madhuban, Shetrunji dams and other storages in the region are more than 90% full, hence, releases may be done as per SOP after informing downstream areas in advance.

2.2.2 East Flowing Rivers Subarnarekha, Brahmani & Baitarni, between Mahanadi & Pennar, Godavari & Krishna

2.2.2.1 Odisha and adjoining Jharkhand

Since the pressure system has travelled past the area. Rainfall has decreased over south Odisha region. Water levels in rivers such as Mahanadi, Nagavali, Vamsadhara, Indravathi, Rushikulya are expected to decrease gradually. But due to the formation of fresh Low Pressure Area over Bay of Bengal, IMD has predicted increased rainfall over north Odisha. Alert may be kept in districts **Sundargarh, Kendujhar, Mayurbhanj (Odisha), Purbi Singhbhum (Jharkhand)**. Water level rise is expected in rivers Baitarni, Burhabalang, Brahmani, etc and its tributaries.

2.2.2.2 Andhra Pradesh

Even though rainfall has decreased in most of the districts of the state, due to increased rainfall contribution from upper regions of rivers such as Godavari, Krishna and its tributaries in Maharashtra and adjoining Karnataka, the abatement of water levels in above said rivers are not expected in coming 2 days. Gotta Barrage, Thottapalli project, Srisailem, Pulinchintala, Prakasam projects may receive increased inflows. Releases may be done as per SOP after advance information to downstream areas in advance. Nagavali river in Srikakulam district is flowing in severe flood situation with receding trend.

2.2.2.3 Telangana

Alert may be kept in district **Pedappalle**. Pressure system has passed over the region and rainfall has also decreased. Due to increased rainfall contribution from upper regions of rivers such as Godavari, Krishna and its tributaries in Maharashtra and adjoining Karnataka, the abatement of water levels in above said rivers are not expected in next 2 days. Major storages in Godavari basin such as Singur, Nizamsagar, Sriramsagar, Kaddam, Sripadayellampalli, Nagarjunasagar, etc. are having storages in the range 80 to 100%, hence, releases have to be done as per SOP after informing downstream areas in advance.

2.2.2.4 Karnataka

Currently, river Kagina (Krishna basin) in **Gulbarga** district is flowing in severe flood situation with steady trend.

2.2.2.5 Maharashtra

Water level rise is expected in Upper Godavari and its tributaries. Alert may be kept in districts **Nashik (Godavari), Aurangabad, Jalna, Parbhani (Purna), Nanded, Bid, Ahmednagar, Hingoli (Godavari), Pune & Satara (Bhima, Upper Krishna, Nira)**. 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 in advance. Currently, river Shivna (Godavari basin) at site Lasur (CWC site) in **Aurangabad** district is flowing above its Historical Flood Level with steep rising trend.

2.2.3 Ganga and its tributaries

2.2.3.1 West Bengal

Due to the formation of fresh Low Pressure Area over Bay of Bengal, IMD has predicted increase rainfall over West Bengal mainly in districts **Jhargram, Pashchim Medinipur, Bankura, Puruliya, Hugli, East Medinipur, South 24 Parganas and North 24 Parganas** in next 2 days. Water level rise is expected in rivers Barakar, Damodar, Subarnarekha & Kangsabati.

2.2.3.2 Jharkhand

Alert may be kept in **Bokaro, Ramgarh, Ranchi, Khunti, Saraikila, Latehar, Lohardaga, Gumla, Simdega** districts. Water level rise is expected in rivers Damodar, Mayurakdhi, Barakar, Ajoy and its tributaries.

2.2.4 West flowing rivers from Tadri to Kanyakumari

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, Upper & Lower Periyar, Chalakudi and Achankoil. Major storages in the state such Idukki, Idamalayar etc are presently have high storages, hence, releases may be done as per SOP after informing downstream areas in advance.

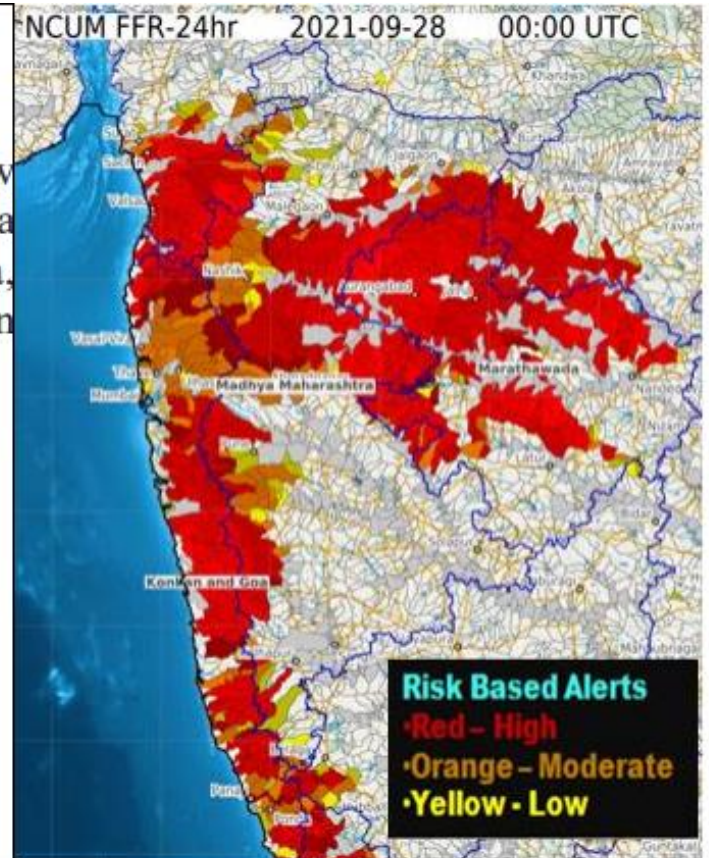
2.3. IMD Flash Flood Guidance

IMD issues warning of moderate to high risk over few watersheds and neighborhood of Madhya Maharashtra adjoining Marathwada, Konkan & Goa adjoining Gujarat Region in next 24 hours.

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 29.09.2021:

Moderate to High Risk over few watersheds and neighborhood of Madhya Maharashtra adjoining Marathwada, Konkan & Goa adjoining Gujarat Region 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 28th 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	Somasila	Pennar/Lower Pennar/Pennar	AP	Kadapa(AP)/Nellore(AP)					
4	Madduvalasa	Nagavalli/Nagavalli/EFR Mahanadi & Pennar	AP	Vizianagaram					
5	Musi	Musi/Lower Krishna/Krishna	Tel	Nalgonda					
6	Sri PadaYellampally	Godavari/Middle Godavari/Godavari	Tel	Mancherial/ JaishankarBhupalpally					
7	Sriramsagar Project	Godavari/Middle Godavari/Godavari	Tel	Nanded (Mah)/Nirmal (Tel)					
8	Kaddam	Kaddam/Middle Godavari/Godavari	Tel	Adilabad, Nirmal/ Mancherial					
9	Singur	Manjira/Manjira/Godavari	Tel	Medak					
10	PD Jurala	Krishna/Middle Krishna/Krishna	Tel	Raichur (Kar)/JogalambaGadwal(Telangana)					
11	Panchet	Damodar/Damodar East/ Ganga	Jhar	Dhanbad, Jamtara (Jhar)/ Puruliya, PaschimBardhaman, Bankura (WB)					
12	Getalsud	Damodar/Damodar West/Ganga & its tributaries	Jhar	Bokaro (Jharkand)					
13	Konar	Konar/Damodar West/Ganga & its tributaries	Jhar	Hazaribagh (Jharkand)					
14	Tilaiya	Barakar/ Barakar West/Ganga & its tributaries	Jhar	Koderma (Jharkand)					
15	Maithon	Barakar/ Barakar East/Ganga	Jhar	Dhanbad, Jamtara (Jhar)/ Puruliya, PaschimBardhaman, Bankura (WB)					
16	Kabini	Kabini/Kabini/Cauvery	Kar	Wayanad (Kerala)/ Mysuru (Kar)					
17	Harangi	Harangi/Harangi/Cauvery	Kar	Kodagu/Mandya					
18	Karanja	Karanja/Manjira/Godavari	Kar	Bidar (Kar), Vikarabad(Tel)/Bidar(Kar)					
19	Almatti	Krishna/Upper Krishna/Krishna	Kar	Kolhapur(Mah)/ Bagalkote(Kar)					
20	Narayanpur	Krishna/Upper Krishna/Krishna	Kar	Bagalkot, Vijayapura/ Raichur, Yaadgir					
21	Tungabhadra	Tungabhadra/Middle Tungabhadra/Krishna	Kar	Gadag/Bellary, Koppal, Raichur					
22	Hemavathy	Hemavathy/ Hemavathy/Cauvery	Kar	Hassan, Kodagu/Mandya, Mysore					
23	Bhadra	Bhadra/UpperTungabhadra/Krishna	Kar	Chikmagaluru/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	Isapur	Penganga/Penganga/Godavari	Mah	Hingoli, Yavatmal/Yavatmal,Nanded					
30	Manjlegaon	Sindhphana/Middle Godavari/Godavari	Mah	Bid/Parbhani					
31	Upper WardhaProj	Wardha/Wardha/Godavari	Mah	Wardha, Amravati					
32	Veer Dam	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	Totladoh	Pench/Wainganga/Godavari	Mah	Chindwara(MP)/Nagpur(Mah)					
36	Jaikwadi	Godavari/Upper Godavari/Godavari	Mah	Aurangabad, Ahmadnagar/Bid, Jalna					
37	Parwati	Parbati/Kalisindh/Upper Chambal	Raj	Baran (Raj)/Baran (Raj), Kota (Raj), Sheopur (MP)					
38	RanaPratapSagar	Chambal/Upper Chambal/Ganga	Raj	Neemuch(MP)/Dholpur,Kota, Bundi(Raj)					
39	Panchana	Gambhiri/Upper Chambal/Ganga	Raj	Karauli					
40	Gudha	Mejchambal/UpperChambal/Ganga	Raj	Bhilwara/Bundi					
41	Kalisindh	Kalisindh/Upper Chambal/Ganga	Raj	Jhalawar, Kota					
42	MahiBajajsagar	Mahi/Mahi B/Mahi	Raj	Ratlam(MP)/Banswara, Pratapgarh,Dungapur (Raj)					
43	SomKamlaAmba	Mahi/Mahi B/Mahi	Raj	Udaipur/Dungarpur					
44	Gambhiri	Gambhiri/Upper Chambal/Ganga	Raj	Chittorgarh					
45	Gandhi Sagar	Chambal/Upper Chambal/Ganga	MP	Mandsaur,Neemuch(MP)/Dholpur(Raj)					
46	Bargi	Narmada/Upper Narmada/Narmada	MP	Mandla, Seoni/Jabalpur, Narsimhapur					
47	Tawa	Tawa/Middle Narmada/Narmada	MP	Betul,Hoshnabad/Sehore					
48	Barna	Barna/Middle Narmada/Narmada	MP	Raisen(MP)					
49	Hathnur	Hathnur/Upper Tapi/Tapi	Mah	Burhanpur (MP)/Jalgaon(Mah)					
50	Rajghat	Betwa/Betwa/Ganga	MP	Ashoknagar(MP), Lalitpur(UP)/Shivpuri, Lalitpur(UP)					
51	Bansagar Dam	Sone./Sone/Ganga	MP	Katni, Umaria, Shahdol, Satna/ Rewa, Sidhi					
52	Upper Wainganga (Sanjay Sarovar)	Wainganga/Wainganga/Godavari	MP	Seoni/Balaghat					
53	Bhavanisagar	Bhavani/Middle Cauvery/Cauvery	TN	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)					
54	Rengali	Brahmani River/Brahmani and Baitarni/Brahmani and Baitarni	Odisha	Deogarh/Angul, Dhenkanal					
55	Hirakud	Mahanadi River/Upper Mahanadi/Mahanadi	Odisha	JanjgirChampa, Raigarh(Chsgrh), Jharsuguda, Bargarh, Sambalpur(Odisha)/Subarnapur, Baudh, Anugul (Odisha)					
56	Nizamsagar	Manjira/Manjira/Godavari	Tel	Medak/Kamareddy					
57	Ukai	Tapi/Lower Tapi/Tapi	Guj	Nadurbar(Mah), Tapi(Guj)/ Surat (Guj)					
58	Madhuban	Damanganga/Damanganga/West Flowing Rivers from Tapi to Tadri	Guj	Valsad (Guj)/Selvasa (UT of DNH)					
59	Kadana	Mahi/Mahi B/Mahi	Guj	Banswara(Raj)/ MahiSagar, PanchMahal(Guj)					
60	Edamalayar	Upper Periyar/Periyar/Periyar	Ker	Coimbatore/Ernakulam					
61	Idukki	Periyar/Upper Periyar/West Flowing Rivers from Tadri to Kanyakumari	Ker	Idduki/Ernakulam					
62	Bango	Hasdeo/Upper Mahanadi/Mahanadi	Chtgrh	Koriya,Korba/JanjgirChampa					

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.