



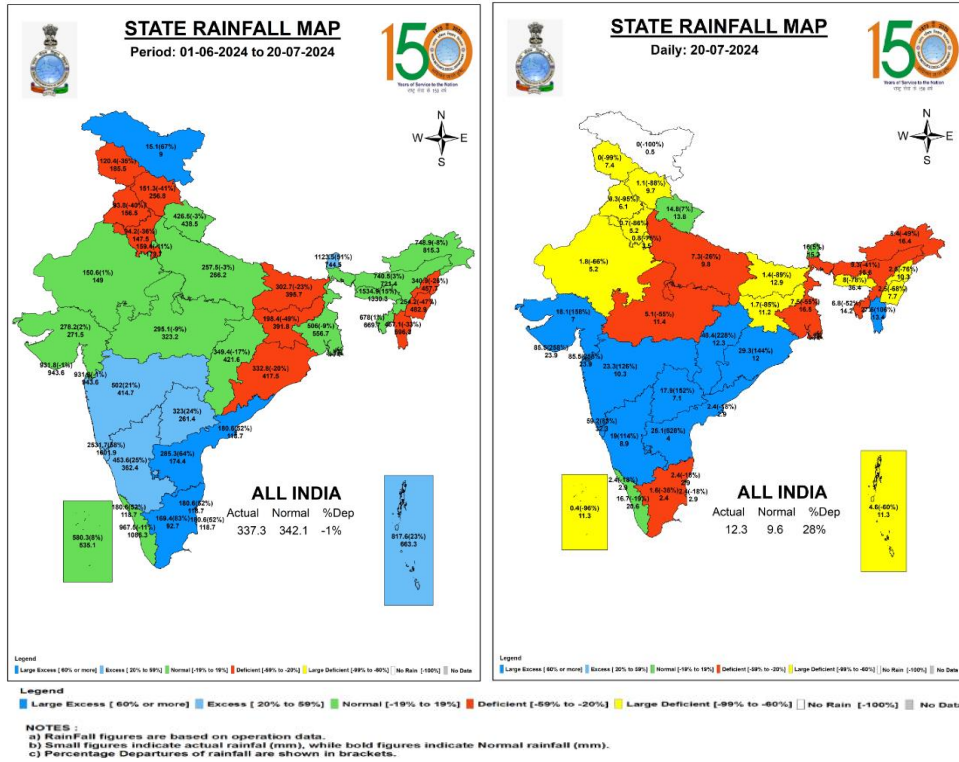
# Central Water Commission

## Daily Flood Situation Report cum Advisories

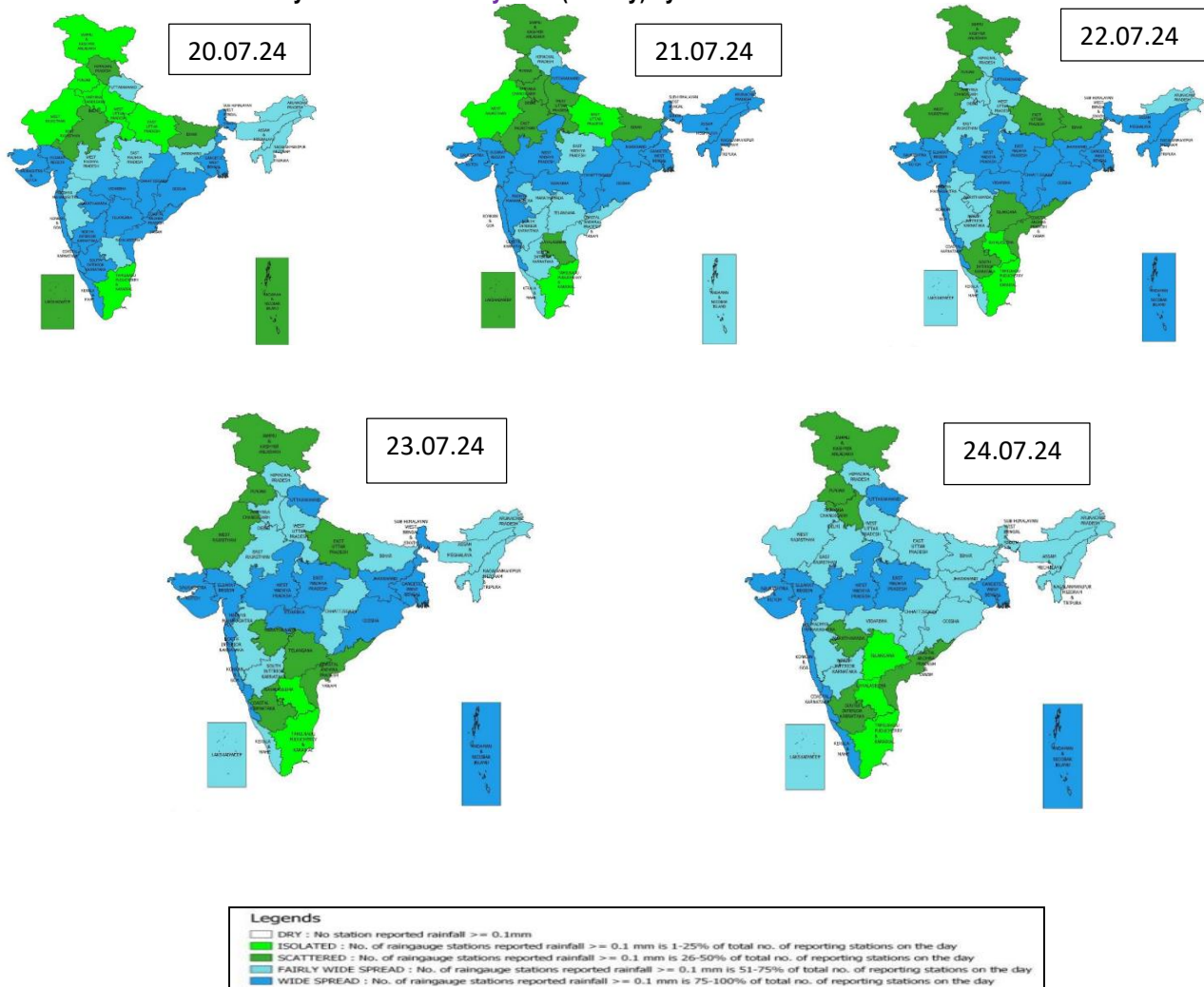
20-07-2024

### 1.0 Rainfall Situation

#### 1.1 State wise departure from normal of cumulative and daily rainfall



#### 1.2 Rainfall forecast for next 5 days issued on 20<sup>th</sup> July 2024 (Midday) by IMD



2.0 Flood Situation and Advisories

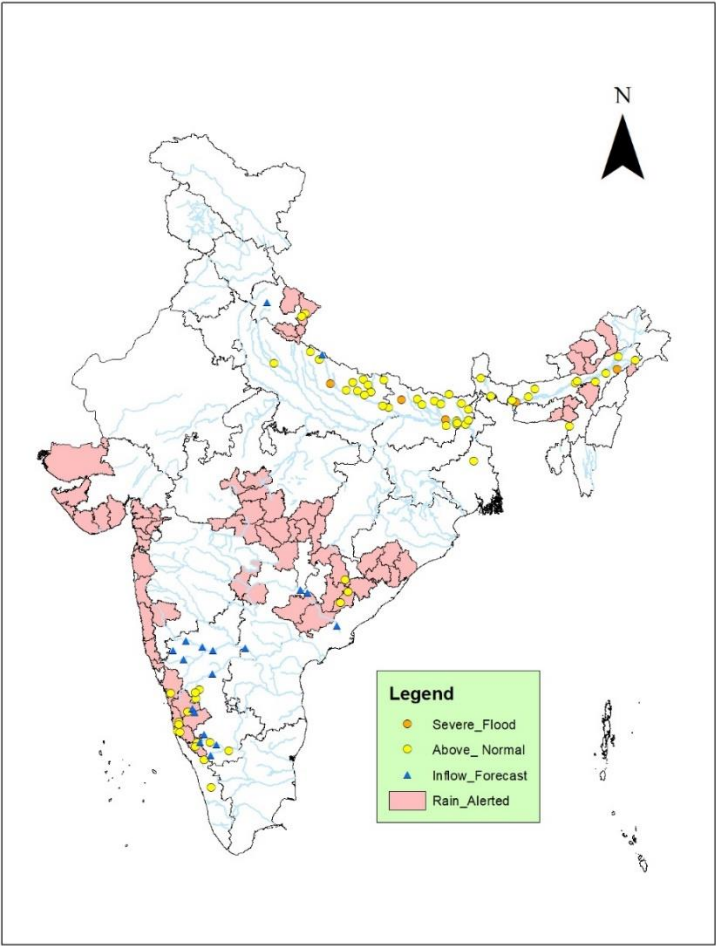
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 20<sup>th</sup> July 2024, 7 Stations (2 in Bihar, 2 in Assam , 1 in Kerala and 1 in Uttar Pradesh) are flowing in Severe Flood Situation, 27 stations (9 in Assam, 10 in Bihar, 4 in Uttar Pradesh, 1 in West Bengal , 1 in Jharkhand, 1 in Chattisgarh & 1 in Sikkim) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 18 dams and barrages ( 12 in Karnataka, 3 in Telangana, 1 in Andhra Pradesh 1 in Uttar Pradesh, 1 in Uttarakhand).

FLOOD SITUATION SUMMARY			
PART - I: LEVEL FORECAST		(Total Sites - 200)	
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)		0
B	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	Assam(2), Bihar(2), Kerala(1), Uttar Pradesh(2)	7
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	Assam(9), Bihar(10), Chhattisgarh(1), Jharkhand(1), Sikkim(1), Uttar Pradesh(4), West Bengal(1)	27
Total number of sites above Warning Level ( A+B+C)			34
PART - II: INFLOW FORECAST		(Total Sites - 138)	
Number of sites for which inflow forecasts issued: (Where Inflows are equal or exceed the specified Threshold Limit for a particular reservoir / barrage)		Andhra Pradesh(1), Karnataka(12), Telangana(3), Uttar Pradesh(1), Uttarakhand(1)	18

Details are given at link: [https://cwc.gov.in/sites/default/files/cfrcrcwdfb-20.07.2024\\_5.pdf](https://cwc.gov.in/sites/default/files/cfrcrcwdfb-20.07.2024_5.pdf)

Flood Situation Map



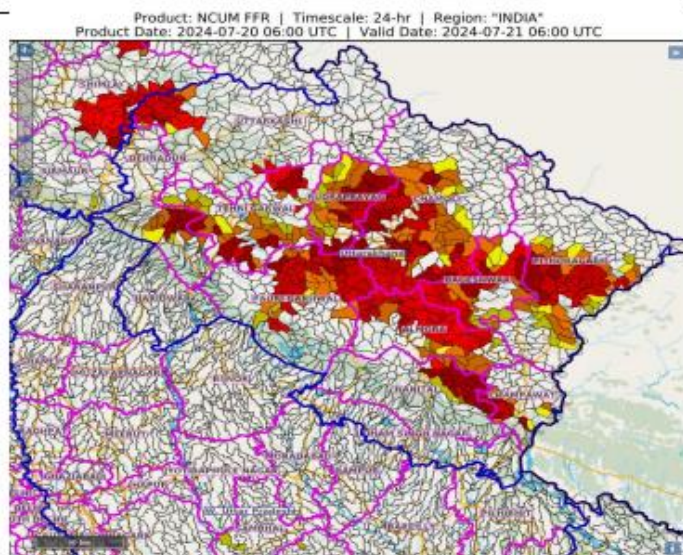


## 2.2 Flash Flood Guidance

### **24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 21-07-2024 :**

**Low to Moderate flash flood risk** likely over few watersheds & neighbourhoods of **Uttarakhand** Met Sub-divisions during next 24 hours.

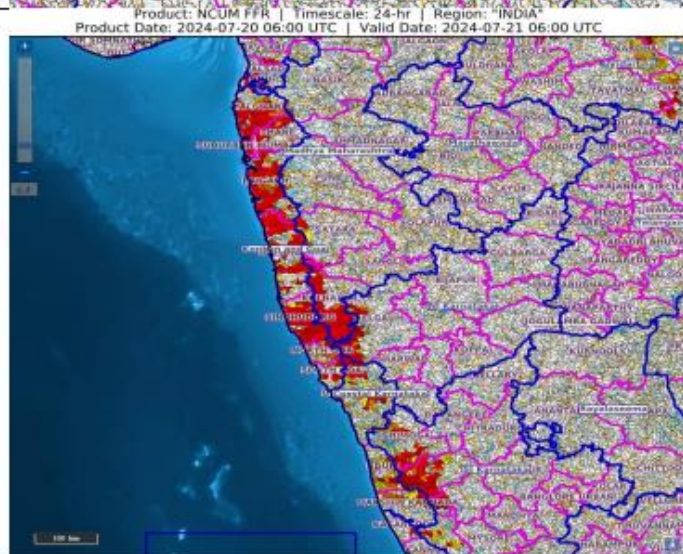
Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.



### **24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 21-07-2024 :**

**Low to Moderate flash flood risk** likely over few watersheds & neighbourhoods of **Coastal Karnataka**, adjoining **SI Karnataka** and **Konkan & Goa** 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.



## 2.3 CWC Advisories

### **Main Synoptic Features and Rainfall (As per IMD)**

- The depression over Northwest and adjoining Westcentral Bay of Bengal off Odisha and adjoining north Andhra Pradesh coasts moved west-northwestwards and lay as a depression over Odisha coast near Chilika Lake at 0830 hours IST of today, the 20th July, 2024 over the same region near latitude 19.6°N and longitude 85.4°E, about 40 km south-southwest of Puri (Odisha) and 70 km East-Northeast of Gopalpur (Odisha). It is likely to move further northwestwards across Odisha & Chhattisgarh and weaken gradually into a well marked low pressure area during next 12 hours.
  - The Monsoon trough is active and lies south of its normal position. It is likely to remain south of its normal position during next 2-3 days.
  - A shear zone lies in lower & middle tropospheric levels along 20°N tilting southwards with height.
  - The off-shore trough at mean sea level runs along south Gujarat-north Kerala coasts at mean sea level. A cyclonic circulation lies over Saurashtra & Kutch and extends upto middle tropospheric levels.
  - A Western Disturbance as a trough in middle tropospheric roughly along Long. 66°E to the north of Lat. 28°N.
  - A cyclonic circulation lies over Himachal Pradesh and another over central Rajasthan in lower tropospheric levels.
1. Isolated extremely heavy rainfall very likely over Konkan & Goa, Ghat areas of Madhya Maharashtra, Vidarbha, south Chhattisgarh on 20th; Gujarat state during 20th-24th July.

2. Very heavy rainfall very likely at isolated/some places over Konkan & Goa, Madhya Maharashtra, Gujarat State, Madhya Pradesh during 21st-24th; Vidarbha on 21st & 22nd; Chhattisgarh on 21st; Coastal Karnataka on 20th & 21st; South Interior Karnataka, south Odisha, Marathwada, north Coastal Andhra Pradesh & Yanam and Telangana on 20th July.
3. Isolated extremely heavy rainfall very likely over Uttarakhand on 21st & 22nd July.
4. Isolated very heavy rainfall also likely over East Rajasthan on 23rd & 24th; Uttarakhand on 23rd; Himachal Pradesh on 22nd & 23rd and West Uttar Pradesh on 22nd July.
5. Isolated very heavy rainfall also likely over Arunachal Pradesh and Assam & Meghalaya on 21st July.

## Maharashtra

Due to the existence of Depression over Odisha and neighbourhood and intensification of monsoon winds, water level rise is expected in Upper Bhima, Bav, Ulhas, Vaitarna, Damanganga, Vashisti and other small rivers in districts Pune, Mumbai Satara, Kolhapur, Sindhudurg, Raigad, Palghar and Thane for next 2 days. Water level rise is also expected in rivers Upper Tapi, Wardha, Penganga, Pranhita, Indravathi and its tributaries for next 2 days.

## Odisha

Water level rise is expected in rivers Indravathi, Kolab, Vamsadhra, Rushikulya and adjoining Mahanadi and its tributaries in districts Malkangiri, Koraput, Nabarangapur, Kalahandi, Rayagarha, Gajapati and Ganjam for next 24 hrs days. Current flood situation in the state as per CWC network is as follows:

WC Site	River	District	Flood Type	Trend in Water Level
Saradaput	Sabri	Malkangiri	Severe	Rising
Potteru	Potteru Vegu	Malkangiri	Severe	Steady

## Karnataka

Increased water levels are expected in Kabini, Harangi, Shambhavi, Swarna, Sharavati, Haladi, Aghanashini, Netravathi, Sita, Varada, Gurpur, Upper Tunga, and small rivers in Dakshin Kannada, Udupi, Uttara Kannada, Shimoga, Chikmangallur, Kodagu districts for next 2 days. Increased inflow is expected into projects such as Tungabhadra, Bhadra, Harangi, Hidkal, Krishnarajasagar, Kabini, Hemavathy, Almatti, Krishnarajasagar, Narayanapur, Linganamakki for next 24 hrs. Releases from other dams may be Also done as per SOP after informing downstream areas. Current flood situation in the state as per CWC network is as follows:

CWC Site	River	District	Flood Type	Trend in Water Level
Kuppelur	Kumudvati	Haveri	Severe	Steady
Mahishi	Tunga	Shimoga	Severe	Falling
Napoklu	Cauvery	Kodagu	Above Normal	Rising
Airani	Tunga	Haveri	Above Normal	Rising
Santeguli	Aghanashini	Uttar Kanada	Above Normal	Steady
Yennehole	Swarna	Udupi	Above Normal	Steady
Adoor	Gurpur	Uttara Kannada	Above Normal	Steady
Sanoor	Shambhavi	Udupi	Above Normal	Steady
Bantwal	Netrvathi	Dakshin Kannada	Above Normal	Steady
Kollegal	Cauvery	Kodagu	Above Normal	Falling
Honnali	Tungabhadra	Devanagere	Above Normal	Falling
Mukkodlu	Harangi	Kodagu	Above Normal	Falling
Chunchunakatte	Cauvery	Mysore	Above Normal	Falling

## Gujarat

Water level rise is expected in Purna, Ambia, Mindhola, Kaveri Damanganga, lower Tapi and Narmada and other small rivers in districts of south Gujarat region. Water level rise is also expected in rivers such as Sani, Ozat, Madhuwati, Saraswati, Machhundri and other small rivers in Dwarka, Jamnagar, Porbander, Somnath, Junagadh, Amereli, Rajkot, Bhavnagar districts.

## Andhra Pradesh

Water level rise and flood like situation is expected in Yeleru, Nagavalli, river of lower Godavari and Krishna and other east flowing rivers in districts, Eluru, Allurisitharamaraju, Srikakulam, Vizianagaram, Vizag, Anakapalli, Kakinada, E.Godavari, Konaseema, W.Godavari, for next 24 hrs.

## Telangana and South Chattisgarh

Water level rise is expected in Indravathi, Sabari, Pranhita and other tributaries of river Godavari in Jagital, Kumaram bheem, Mancherial, Hanamkonda, Warangal, Mahabubabad, Khammam, J.Bhupalpally, Mulugu, B.Kothagudam districts for next 24 hrs.

CWC Site	River	District	Flood Type	Trend in Water Level
Jagdalpur	Indravathi	Bastar	Above Normal	Rising

## Kerala

Current flood situation in the state as per CWC network is as follows:

CWC Site	River	District	Flood Type	Trend in Water Level
Muthankhera	Kabini	Wayanad	Severe	Falling
Kondazhy	Gayatri	Trichur	Above Normal	Falling

## Uttarakhand

Water level rise is expected in rivers Ramganga, Sharda, Deoha, Gomati and its tributaries in Almora, Pauri Garhwal, Champawat, Nainital and Udham Singh Nagar districts for next 2 days. Current flood situation in the state as per CWC network is as follows:

CWC Site	River	District	Flood Type	Trend in Water Level
Bangapani(Munshiyari)	Gauri ganga	Pithoragarh	Above Normal	Falling
Thal	Ramganga	Pithoragarh	Above Normal	Falling

## Assam

Current flood situation in the state as per CWC network is as follows:

CWC Site	River	District	Flood Type	Trend in Water Level
Dhubri	Brahmaputra	Dhubri	Severe	Falling
Nanglamoraghat	Desang	Sivasagar	Severe	Falling
Beki Rd Bridge	Beki	Barpeta	Above Normal	Rising
Numaligarh	Dhansiri	Golaghat	Above Normal	Rising
Nt Road Crossing Jiabharali	Jiabharali	Sonitpur	Above Normal	Rising
Tezpur	Brahmaputra	Sonitpur	Above Normal	Steady
Dibrugarh	Brahmaputra	Dibrugarh	Above Normal	Steady
Margherita	Buridehing	Tinsukia	Above Normal	Steady
Goalpara	Brahmaputra	Goalpara	Above Normal	Steady

Golokganj	Sankosh	Dhubri	Above Normal	Steady
Karimganj	Kushiyara	Karimganj	Above Normal	Steady
Neamatighat	Brahmaputra	Jorhat	Above Normal	Falling

## West Bengal & Sikkim

Current flood situation in the state as per CWC network is as follows:

CWC Site	River	District	Flood Type	Trend in Water Level
Mekhliganj(R/B)	Teesta	Cooch Behar	Above Normal	Steady
CS 97 A Ganga Farakka	Ganga	Murshidabad	Above Normal	Falling
Melli	Teesta	Namchi	Above Normal	Falling

## Jharkhand

Current flood situation in the state as per CWC network is as follows:

CWC Site	River	District	Flood Type	Trend in Water Level
Sahibganj	Ganga	Sahebganj	Above Normal	Steady

## Bihar

Current flood situation in the state as per CWC network is as follows:

CWC Site	River	District	Flood Type	Trend in Water Level
Dumariaghat	Gandak	Gopalganj	Severe	Rising
Baltara	Kosi	Khagaria	Severe	Steady
Birpur	Kosi	Supaul	Severe	Falling
Basua	Kosi	Supaul	Above Normal	Rising
Benibad	Bagmati	Muzaffarpur	Above Normal	Rising
Darauli	Ghagra	Siwan	Above Normal	Steady
Labha	Fulhar	Katihar	Above Normal	Steady
Jhawa	Mahananda	Katihar	Above Normal	Steady
Araria	Parman	Araria	Above Normal	Falling
Kahalgao	Ganga	Bhagalpur	Above Normal	Falling
Sultanganj	Ganga	Bhagalpur	Above Normal	Falling
Runisaidpur	Bagmati	Muzaffarpur	Above Normal	Falling
Kursela	Kosi	Katihar	Above Normal	Falling
Azmabad	Ganga	Bhagalpur	Above Normal	Falling
Jhanjarpur	Kamlabalan	Madhubani	Above Normal	Falling
Dhengraghat	Mahananda	Purnia	Above Normal	Falling

## Uttar Pradesh

Current flood situation in the state as per CWC network is as follows:

CWC Site	River	District	Flood Type	Trend in Water Level
Elginbridge	Ghaghra	Barabanki	Severe	Rising
Chandradeepghat	Kwano	Gonda	Severe	Steady

Birdghat	Rapti	Gorakhpur	Severe	Steady
Ayodhya	Ghagra	Ayodhya	Above Normal	Rising
Turtipar	Ghagra	Ballia	Above Normal	Rising
Khadda	Gandak	Kushi Nagar	Above Normal	Steady
Kachlabridge	Ganga	Budaun	Above Normal	Steady
Shardanagar	Sarda	Kheri	Above Normal	Steady
Basti	Kwano	Basti	Above Normal	Steady
Mukhlisipur	Kwano	Sant Kabir Nagar	Above Normal	Steady
Paliakalan	Sarda	Kheri	Above Normal	Falling
Kakrahi	Burhi Rapti	Siddharth Nagar	Above Normal	Falling
Regauli	Rapti	Gorakhpur	Above Normal	Falling



### 3.0 Advisory Flood Forecast for next 7-days in Table form

The flood situational Flood Forecasting Stations likely to be above warning level for next 7 days

S.No.	Station	River	District	State	21-07-2024	22-07-2024	23-07-2024	24-07-2024	25-07-2024	26-07-2024	27-07-2024
1	ANNAPURNA GHAT	BARAK	CACHAR	Assam	N	N	N	S	S	S	E
2	BADARPUR GHAT	BARAK	KARIMGANJ	Assam	N	N	N	AN	S	S	E
3	KARIMGANJ	KUSHIYARA	KARIMGANJ	Assam	AN	AN	AN	S	S	S	E
4	GOALPARA	BRAHMAPUTRA	GOALPARA	Assam	AN	AN	AN	AN	AN	S	S
5	NANGLAMORAGHAT	DESANG	SIVSAGAR	Assam	S	AN	AN	AN	AN	AN	AN
6	NEAMATIGHAT	BRAHMAPUTRA	JORHAT	Assam	AN	AN	AN	S	S	S	S
7	NUMALIGARH	DHANSIRI (SOUTH)	GOLAGHAT	Assam	AN	AN	AN	S	S	S	S
8	SIVASAGAR	DIKHOW	SIVSAGAR	Assam	N	N	AN	AN	S	S	S
9	TEZPUR	BRAHMAPUTRA	SONITPUR	Assam	AN	AN	AN	S	S	S	S
10	DHUBRI	BRAHMAPUTRA	DHUBRI	Assam	S	AN	S	S	S	S	S
11	MUTHANKERA	KABINI	WAYANAD	Kerala	AN	AN	AN	AN	AN	S	S
12	ARARIA	PARMAN	ARARIA	Bihar	AN	AN	AN	AN	AN	AN	S
13	BALTARA	KOSI	KHAGARIA	Bihar	S	S	S	S	S	S	S
14	BIRDGHAT	RAPTI	GORAKHPUR	Uttar Pradesh	S	AN	N	N	N	N	N
15	DUMARIAGHAT	GANDAK	GOPALGANJ	Bihar	S	S	S	S	S	S	S
16	BHANDARA	WAINGANGA	BHANDARA	Maharashtra	N	N	N	N	N	S	S
17	AKHUAPADA	BAITARANI	BHADRAK	Odisha	N	N	N	AN	AN	N	N
18	BADATIGHAT	SUBANSIRI	LAKHIMPUR	Assam	N	AN	AN	AN	AN	AN	AN
19	BEKI ROAD BRIDGE	BEKI	BARPETA	Assam	AN	AN	AN	AN	AN	AN	AN
20	DIBRUGARH	BRAHMAPUTRA	DIBRUGARH	Assam	AN	AN	AN	AN	AN	AN	AN
21	GOLAGHAT	DHANSIRI (SOUTH)	GOLAGHAT	Assam	N	N	N	N	AN	AN	AN
22	GUWAHATI(D.C.COURT)	BRAHMAPUTRA	KAMRUP	Assam	AN	N	AN	AN	AN	AN	AN
23	NT ROAD CROSSING JIA-BHARALI	JIABHARALI	SONITPUR	Assam	AN	AN	AN	AN	AN	AN	AN
24	ANKINGHAT	GANGA	KANPUR NAGAR	Uttar Pradesh	N	N	N	N	N	N	AN
25	AYODHYA	GHAGRA	AYODHYA	Uttar Pradesh	AN	AN	AN	AN	AN	AN	AN
26	BASUA	KOSI	SUPAUL	Bihar	AN	AN	AN	AN	AN	AN	AN
27	BENIBAD	BAGMATI	MUZAFFARPUR	Bihar	AN	AN	AN	AN	AN	AN	AN



28	DABRI	RAMGANGA	SHAHJHANPUR	Uttar Pradesh	AN	N	N	AN	AN	AN	AN
29	DARAU LI	GHAGRA	SIWAN	Bihar	AN	AN	AN	AN	N	N	N
30	DHENGRAGHAT	MAHANANDA	PURNIA	Bihar	AN	AN	AN	AN	AN	AN	AN
31	ELGINBRIDGE	GHAGRA	BARABANKI	Uttar Pradesh	AN	AN	AN	AN	AN	AN	AN
32	GARHMUKTESHWAR	GANGA	HAPUR	Uttar Pradesh	N	N	N	N	AN	AN	AN
33	HAYAGHAT	BAGMATI	DARBHANGA	Bihar	N	N	N	N	N	N	AN
34	JHANJHARPUR	KAMALABALAN	MADHUBANI	Bihar	AN	AN	AN	AN	AN	AN	AN
35	JHAWA	MAHANANDA	KATIHAR	Bihar	AN	N	N	N	N	N	N
36	KACHHLABRIDGE	GANGA	BUDAUN	Uttar Pradesh	AN	AN	AN	AN	AN	AN	AN
37	KAHALGAON	GANGA	BHAGALPUR	Bihar	AN	AN	AN	AN	AN	AN	N
38	KAMTAUL	ADHWARA	DARBHANGA	Bihar	N	N	N	N	N	AN	AN
39	KHADDA	GANDAK	KUSHINAGAR	Uttar Pradesh	AN	AN	AN	AN	AN	AN	AN
40	KURSELA	KOSI	KATIHAR	Bihar	AN	AN	AN	AN	AN	AN	AN
41	SAHIBGANJ	GANGA	SAHIBGANJ	Jharkhand	AN	AN	AN	AN	AN	AN	AN
42	TURTIPAR	GHAGRA	BALLIA	Uttar Pradesh	AN	AN	AN	AN	AN	AN	N
43	DHENG BRIDGE	BAGMATI	SITAMARHI	Bihar	AN	AN	AN	AN	AN	AN	AN
44	RUNISAIDPUR	BAGMATI	MUZAFFARPUR	Bihar	N	N	N	AN	AN	AN	AN
45	FARAKKA(FF)	GANGA	MURSHIDABAD	West Bengal	AN	AN	AN	AN	AN	AN	AN
46	BHADRACHALAM	GODAVARI	BHADRADRI	Telangana	N	AN	N	N	N	N	N
47	KUNAVARAM	GODAVARI	ALLURI SITHARAMA RAJU	Andhra Pradesh	N	AN	AN	N	N	N	N
48	DOWLAISWARAM (STATE GOVT SITE)	GODAVARI	EAST GODAVARI	Andhra Pradesh	AN	AN	AN	AN	N	N	N
49	GOLOKGANJ	SANKOSH	DHUBRI	Assam	AN	AN	AN	AN	AN	AN	AN
50	MEKHLIGANJ (R_B)	TEESTA	KOCHBIHAR	West Bengal	AN	N	N	N	N	N	N
51	MELLI	TEESTA	NAMCHI	Sikkim	AN	N	N	N	AN	AN	N

**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 20<sup>th</sup> July 2024

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				
					Day1	Day2	Day3	Day4	Day 5
1	Thottapalli Reservoir	Nagavali/Nagavali&Others/ERF (Mahanadi to Pennar)	Andhra Pradesh	Vizianagaram					
2	Madduvalasa Reservoir	Nagavali/Nagavali&Others/ERF(Mahanadi to Pennar)	Andhra Pradesh	Vizianagaram					
3	Gotta Barrage	Vamsadhara/Vamsadhara/ERF(Mahanadi to Pennar)	Andhra Pradesh	Srikakulam					
4	Sunkesula Barrage	Tungabhadra/Lower Tungabhadra/Krishna	Andhra Pradesh	Kurnool					
5	Prakasam Barrage	Krishna/Lower Krishna/ Krishna	Andhra Pradesh	Krishna/ Guntur					
6	Singatalur Barrage	Tungabhadra/Upper Tungabhadra/Krishna	Karnataka	Gadag/LKD Hyderabad					
7	Kabini Reservoir	Kabini/Middle Cauvery/Cauvery	Karnataka	Mysore					
8	Harangi Reservoir	Harangi/Upper Cauvery/Cauvery	Karnataka	Kodagu					
9	Almatti Reservoir	Krishna/Upper Krishna/Krishna	Karnataka	Bagalkot					
10	Tungabhadra Dam	Tungabhadra/Upper Tungabhadra/Krishna	Karnataka	Ballari					
11	Bhadra Reservoir	Bhadra/Upper Tungabhadra/Krishna	Karnataka	Chikamagaluru					
12	Hidkal Dam	Ghataprabha/Upper krishna/Krishna	Karnataka	Belgaum					
13	Narayanpur Reservoir	Krishna/Upper krishna/Krishna	Karnataka	Bagalkot					
14	Hemavathy Reservoir	Hemavathy/Upper cauvery/Cauvery	Karnataka	Hassan					
15	NMD Weir	Godavari/Upper Godavari/Godavari	Maharashtra	Nasik/Ahmednagar					
16	Warna dam	Warna/Upper Krishna/Krishna	Maharashtra	Kolhapur					
17	Yeldari Reservoir	Purna/Middle Godavari/Godavari	Maharashtra	Parbhani					
18	Rana Pratap Sagar	Chambal/Upper Chambal/Ganga	Rajasthan	Neemuch(MP)/Dholpur,Kota, Bundi(Raj)					
19	Kota Barrage	Chambal/Upper Chambal/Ganga	Rajasthan	Neemuch (MP)/Dholpur, Kota, Bundi(Raj)					
20	Musi Dam	Musi/Lower Krishna/Krishna	Telangana	Nalgonda					
21	PD Jurala	Krishna/Upper krishna/Krishna	Telangana	Mahbubnagar					
22	Ichari dam	Tons/Upper Yamuna/Ganga	Uttarakhand	Dehradun/Nahan(HP)					

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