



**Central Water Commission**  
**Upper Ganga Basin Organisation, Lucknow**  
**Daily Flood Situation Report Cum Advisories**  
**Date: 14 AUGUST, 2020**

**FSR No.53**

**Dated 14-08-2020**

**1. Weather forecast by IMD**

**I. SYNOPTIC SITUATION:**

- ♦ The monsoon trough at mean sea level now passes through Jaisalmer, Jaipur, Gwalior, Siddhi, Daltonganj, Jamshedpur and thence to the centre of low pressure area over north Coastal Odisha & adjoining Gangetic West Bengal and extends upto 0.9 km above mean sea level.
- The low pressure area over north Coastal Odisha and neighbourhood now lies over north Coastal Odisha & adjoining Gangetic West Bengal. Associated cyclonic circulation now extends upto 7.6 km above mean sea level tilting southwestwards with height. It is very likely to become more marked during next 24 hours.
- A cyclonic circulation lies over south Haryana & neighbourhood and extends upto 1.5 km above mean sea level.

**II. a) DETERMINISTIC FORECAST (QPF):**

Sr. No.	BASIN NAME	SUBBASIN CODE/NAME	QPF (mm)		
			Day-1	Day-2	Day-3
1	Alaknanda	Alaknanda	0.1-10	0.1-10	0.1-10
2	Bhagirathi	Bhagirathi	0.1-10	0.1-10	0.1-10
3	Ganga	Chhatnag to Mirzapur	11-25	11-25	11-25
		Narora to Phaphamau	11-25	0.1-10	0.1-10
		Phaphamau to Ballia	0.1-10	11-25	0.1-10
		Gomti	11-25	0.1-10	11-25
		Sai	0.1-10	11-25	0.1-10
		Upper Ganga	0.1-10	0.1-10	0.1-10
4	Ghaghra	Lower Ghaghra	11-25	11-25	11-25
		Middle Ghaghra	11-25	11-25	11-25
		Upper Ghaghra	11-25	0.1-10	11-25
5	Ramganga	Ramganga	0.1-10	0.1-10	11-25
6	Rapti	Rapti	11-25	11-25	0.1-10
7.	Sharda	Sharda	11-25	11-25	0.1-10

## II (b) DETERMINISTIC FORECAST (DISTRIBUTION)

	BASIN NAME	SUBBASIN CODE/NAME	INTENSITY (I) & SPATIAL DISTRIBUTION (D)					
			Day-1		Day-2		Day-3	
			I	D	I	D	I	D
1	Alaknanda	Alaknanda	M	FWS	M	FWS	M	FWS
2	Bhagirathi	Bhagirathi	M	FWS	M	FWS	M	FWS
3	Ganga	Chhatnag to Mirzapur	M	WS	M	WS	M	WS
		Narora to Phaphamau	M	WS	M	WS	M	WS
		Phaphamau to Ballia	M	FWS	M	WS	M	WS
		Gomti	M	WS	M	WS	M	WS
		Sai	M	WS	M	WS	M	WS
		Upper Ganga	M	SCT	M	SCT	M	FWS
4	Ghaghra	Lower Ghaghra	M	WS	M	WS	M	WS
		Middle Ghaghra	M	WS	M	WS	M	WS
		Upper Ghaghra	M	WS	M	WS	M	WS
5	Ramganga	Ramganga	M	FWS	M	FWS	M	FWS
6	Rapti	Rapti	M	WS	M	WS	M	FWS
7.	Sharda	Sharda	M	WS	M	WS	M	FWS

<b>QPF in Ranges (mm)</b>	<b>UNLISTED</b>	<b>0</b>	<b>0.1-10</b>	<b>11-25</b>	<b>26-50</b>	<b>51-100</b>	<b>&gt;100</b>
---------------------------	-----------------	----------	---------------	--------------	--------------	---------------	----------------

### III. HEAVY RAINFALL WARNING:

NAME OF BASIN	NAME OF SUB- BASIN	Day-1		Day-2		Day-3	
		I	D	I	D	I	D
Alaknanda	Alaknanda						
Bhagirathi	Bhagirathi						
Ganga	Chhatnag to Mirzapur			H	ISOL	H	ISOL
	Narora to Phaphamau						
	Phaphamau to Ballia	H	ISOL			H	ISOL
	Gomti	H	ISOL	H	ISOL	H	ISOL
	Sai						
	Upper Ganga						
Ghaghra	Lower Ghaghra	H	ISOL	H	ISOL		
	Middle Ghaghra	H	ISOL	H	ISOL	H	ISOL
	Upper Ghaghra	H	ISOL			H	ISOL
Ramganga	Ramganga						
Rapti	Rapti	H	ISOL	H	ISOL		
Sharda	Sharda					H	ISOL

Spatial Distribution of Rainfall		
DRY	Dry	No Station reported rainfall
ISOL	One or two Places	25% or less number of stations recorded rainfall 2.5 mm
SCT	At a few Places	26%-50% number of stations recorded rainfall 2.5 mm
FWS	At many Places	51%-75% number of stations recorded rainfall 2.5 mm
WS	At most places	76%-100% number of stations recorded rainfall 2.5 mm

Intensity of Rainfall					
MDRY	NIL	0 cm	VL	Very Light Rainfall	Trace
L	Light Rainfall	Upto 1 cm	M	Moderate rainfall	02-06 cm
H	Heavy rainfall	07-11 cm	VH	Very Heavy rainfall	12-20 cm
EH	Extremely Heavy rainfall	21 cm or More			
ExH	Exceptionally Heavy Rainfall	When the amount is a value near about the highest recorded rainfall at or near the station for the month or season. However, this term will be used only when the actual rainfall amount exceeds 12 cm			

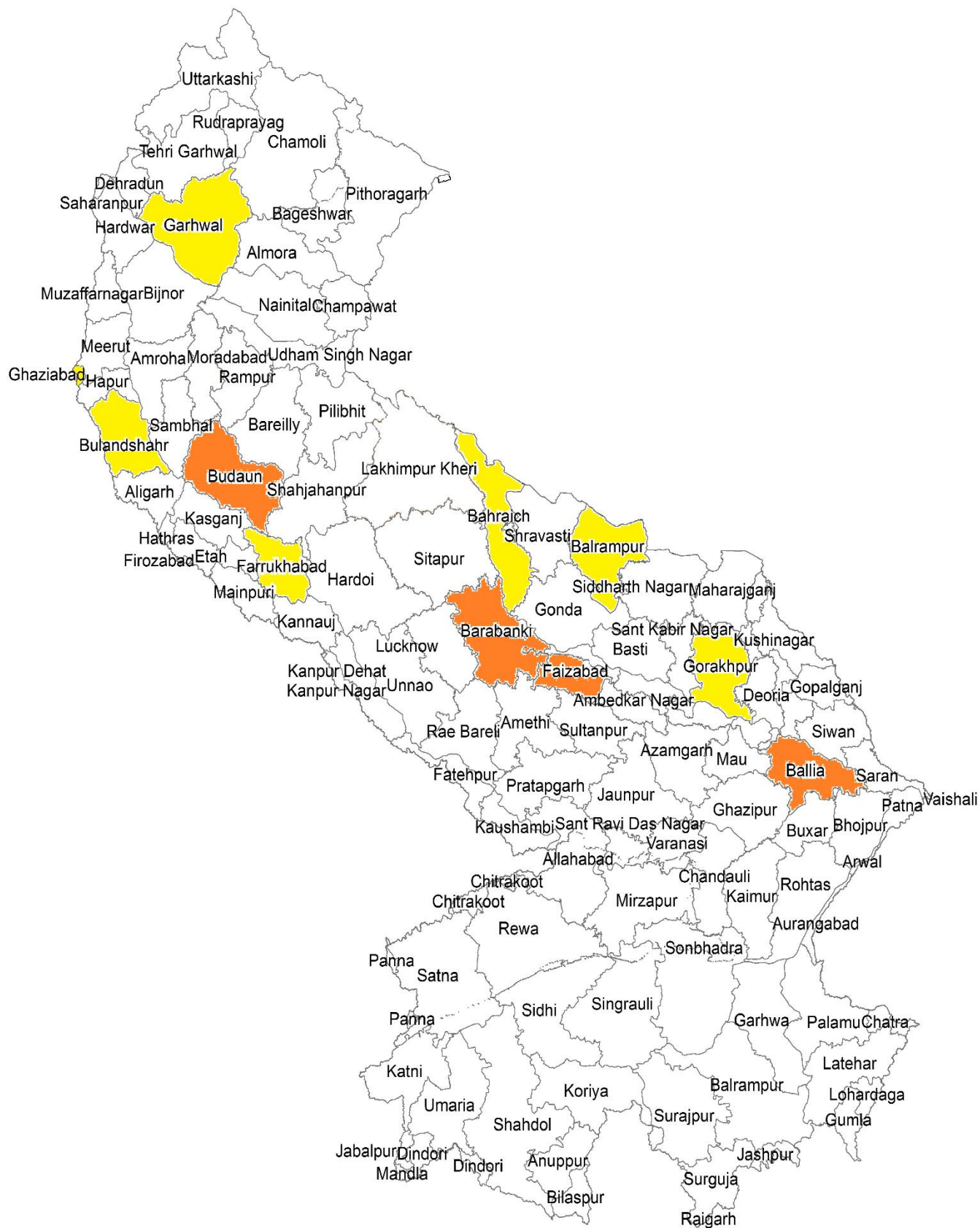
#### IV. PROBABILISTIC FORECAST

S. No.	BASIN NAME	SUBBASIN CODE/NAME	Day-1						Day-2						Day-3					
			0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm
1	Alaknanda	Alaknanda		75-100						75-100						75-100				
2	Bhagirathi	Bhagirathi		75-100						75-100						75-100				
3	Ganga	Chhatnag to Mirzapur			75-100						75-100	5-25					75-100	5-25		
		Narora to Phaphamau		25-50	50-75					50-75	25-50					50-75	25-50			
		Phaphamau to Ballia		50-75	25-50						75-100					50-75	25-50			
		Gomti		5-25	75-100					50-75	25-50						75-100			
		Sai		50-75	25-50					25-50	50-75					50-75	25-50			
		Upper Ganga		75-100						75-100						75-100				
4	Ghaghra	Lower Ghaghra		25-50	50-75					25-50	50-75					25-50	50-75			
		Middle Ghaghra			75-100						75-100						75-100			
		Upper Ghaghra			75-100					50-75	25-50					25-50	50-75			
5	Ramganga	Ramganga		50-75	25-50					50-75	25-50					25-50	50-75			
6	Rapti	Rapti		25-50	50-75					25-50	50-75					75-100				
7.	Sharda	Sharda		25-50	50-75					25-50	50-75					75-100				

Probability of occurrence (%)	0-5	5-25	25-50	50-75	75-100
-------------------------------	-----	------	-------	-------	--------

## 2. Summary of flood situation as per CWC flood forecasting network

## Flood Situation on 14 AUGUST, 2020



1. River Ghagra at Ayodhya in FAIZABAD district of Uttar Pradesh continues to flow in SEVERE SITUATION at 21:00 hrs today. At 21:00 hrs, it was flowing at a level of 93.39 m with Rising trend which is 0.66 m above its Danger Level of 92.73 m and 0.62 m below its previous HFL of 94.01 m (2009-10-11).
2. River Sarda at Paliakalan in KHERI district of Uttar Pradesh continues to flow in SEVERE SITUATION at 21:00 hrs today. At 21:00 hrs, it was flowing at a level of 154.74 m with Falling trend which is 0.64 m above its Danger Level of 154.1 m and 0.58 m below its previous HFL of 155.32 m (2014-07-21).
3. River Ghagra at Elginbridge in BARABANKI district of Uttar Pradesh continues to flow in SEVERE SITUATION at 21:00 hrs today. At 21:00 hrs, it was flowing at a level of 107.066 m with Steady trend which is 1.00 m above its Danger Level of 106.07 m and 0.55 m below its previous HFL of 107.616 m (2014-08-18).
4. River Ganga at Kachhlabridge in BUDAUN district of Uttar Pradesh continues to flow in SEVERE SITUATION at 21:00 hrs today. At 21:00 hrs, it was flowing at a level of 162.65 m with Steady trend which is 0.65 m above its Danger Level of 162.0 m and 0.14 m below its previous HFL of 162.79 m (2010-09-24).
5. River Ghagra at Turtipar in BALLIA district of Uttar Pradesh continues to flow in SEVERE SITUATION at 21:00 hrs today. At 21:00 hrs, it was flowing at a level of 64.79 m with Rising trend which is 0.78 m above its Danger Level of 64.01 m and 1.21 m below its previous HFL of 66.0 m (1998-08-28)

## 2.1 Rainfall Situation

Amount of rainfall recorded at 8:30 hours IST of today ( $\geq 50$  mm or more)

Name of Place (State)	Rainfall (in mm)
Bhatpurva ghat (U.P)	70.8
Naini(U.P)	63.4
Kalnour(U.P)	51.6
Dabri (U.P)	84.6
Narora(U.P)	81.4
Kachla bridge (U.P)	77
Bareli (U.P)	50.6
Mandala (M.P.)	65.4

## 2.2 LEVEL FORECAST

LEVEL FORECAST		
S.No.	Flood Situations	No. of Forecasting Sites
A.	<b>Extreme Flood Situation:</b>	
	(Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalized)	0
B.	<b>Severe Flood Situation :</b>	
	(Site(s) where water Level touching or exceeding the Danger Level but below Highest Flood Level(HFL)	4
C.	<b>Above Normal Flood Situation:</b>	
	(Site (s) where water level touching or exceeding the warning Level but below Danger Level)	4
Total Numbers of Sites above Warning Level (A+B+C)		9
INFLOW FORECAST		
Number of Sites for which inflow forecasts issued:		4

### 2.3 Above Normal (Water Level touching or exceeding the warning Level but below Danger Level)

Name of river	Flood Forecasting Sites	District	State	Danger Level(m)	Warning Level (m)	Previous Highest		Actual Level			Forecast			
						Level (m)	Date	Level (m)	Time	Trend	Level (m)	Date	Time	Trend
Rapti	Balrampur	Balrampur	U.P	104.62	103.62	105.54	2015	103.85	0800	F	103.70	15.08.20	0800	F
Rapti	Birdghat	Gorakhpur	U.P	74.98	73.98	77.54	1998	74.44	0800	F	74.35	15.08.20	0800	F
Ganga	Garhmukteshwar	Ghaziabad	U.P	199.33	198.33	199.9	2010	198.78	0800	S	198.68	15.08.20	0800	R
Ganga	Fatehgarh	Farukhabad	U.P	137.6	136.60	138.14	2010	137.02	0800	R	137.25	15.08.20	0800	R

### 2.4 Severe Flood Situation (Water Level touching or exceeding the Danger Level but below Highest Flood Level (HFL))

Name of river	Flood Forecasting Sites	District	State	Danger Level(m)	Warning Level (m)	Previous Highest		Actual Level			Forecast			
						Level(m)	Date	Level(m)	Time	Trend	Level (m)	Date	Time	Trend
Ghaghra	Turtipar	Baliya	U.P	64.01	63.01	66.00	1998	64.69	0800	R	64.80	15.08.20	0800	R
Ghaghra	Elgin Bridge	Barabanki	U.P	106.07	105.07	107.616	2014	107.056	0800	S	107.10	15.08.20	0800	F
Ghaghra	Ayodhya	Faizabad	U.P	92.73	91.73	94.01	2009	93.34	0800	S	93.40	15.08.20	0800	R
Ganga	Kachhla bridge	Budaun	U.P	161.00	162.00	162.79	2010	162.59	0800	R	162.75	15.08.20	0800	R



## 2.5 Extreme Flood Situation (Water Level exceeded or equalized Highest Flood Level (HFL))

Name of river	Flood Forecasting Sites	District	State	Danger Level(m)	Warning Level (m)	Previous Highest		Actual Level			Forecast			
						Level(m)	Date	Level(m)	Time	Trend	Level (m)	Date	Time	Trend

Note - No Station is in this situation Dated 14.08.2020

## 2.6 Inflow Forecast

Name of river	Flood Forecasting Sites	District	State	HFL(m)	FRL(m)	Previous Highest		Actual Level			Forecast			
						Discharge (Q)	Date	Discharge (Q)	Time	Trend	D (Q)	Date	Time	Trend
Ghaghra	Katerniaghat Barrage	Bahraich	U.P.		138				0800	S	4350	15.08.20	0800	F
Sharda	Narora Barrage	Bulandshahr	U.P						0800	S	4672.8	15.08.20	0800	R

### **Advisory on Hydro Meteorological Situation Expected from 15-08-2020 to 16-08-2020**

As per rainfall pattern given in section II, Alaknanda, Bhagirathi, Ganga rivers are expected to receive moderate to heavy rain at widespread areas in next 48 hrs. Ghaghra, Ramganga, Sharda & Rapti river basins are expected to receive moderate to heavy rain at widespread areas in next 48 hours. Water level at most of CWC stations are expected to raise in next 48 hours. Level forecast will be issued if the level of river at stations are likely to touch or cross warning level. From the given QPF, Severe flood like situation is expected in Ghaghra, Rapti & Sharda river basins.

अधिशालीअभियंता

मध्य गंगा मण्डल -1 लखनऊ