



Central Water Commission
Upper Ganga Basin Organisation, Lucknow
Daily Flood Situation Report Cum Advisories
Date: 21 AUGUST, 2020

FSR No.60

Dated 21-08-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

The Well-Marked Low Pressure Area over north Coastal Odisha & neighbourhood now lies over north interior Odisha & adjoining Jharkhand with associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height. It is very likely to move nearly westwards across Chhattisgarh & Madhya Pradesh gradually during next 34 days.

♦ The monsoon trough at mean sea level now passes through Bikaner, Ajmer, Guna, Jabalpur, Pendra Road, centre of Well-Marked Low Pressure area over north interior Odisha & adjoining Jharkhand and thence eastsoutheastwards to Northeast Bay of Bengal and extends upto 1.5 km above mean sea level.

♦ The cyclonic circulation over West Rajasthan & neighbourhood now lies over Southwest Rajasthan & neighbourhood at 2.1 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	11-25	0.1-10	0.1-10
2	Bhagirathi	Bhagirathi	0.1-10	0.1-10	0.1-10
3	Ganga	Chhatnag to Mirzapur	0.1-10	0.1-10	11-25
		Narora to Phaphamau	0.1-10	0.1-10	0.1-10
		Phaphamau to Ballia	0.1-10	0.1-10	11-25
		Gomti	0.1-10	0.1-10	0.1-10
		Sai	0.1-10	0.1-10	0.1-10
		Upper Ganga	11-25	0.1-10	0.1-10
4	Ghaghra	Lower Ghaghra	0.1-10	0.1-10	0.1-10
		Middle Ghaghra	0.1-10	0.1-10	0.1-10
		Upper Ghaghra	0.1-10	0.1-10	0.1-10
5	Ramganga	Ramganga	11-25	0.1-10	0.1-10
6	Rapti	Rapti	0.1-10	0.1-10	11-25
7.	Sharda	Sharda	0.1-10	0.1-10	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	SCT	L	SCT	L	SCT
2	Bhagirathi	Bhagirathi	L	SCT	L	SCT	L	SCT
3	Ganga	Chhatnag to Mirzapur	L	DRY	M	DRY	M	DRY
		Narora to Phaphamau	L	SCT	L	SCT	L	SCT
		Phaphamau to Ballia	L	SCT	M	SCT	M	SCT
		Gomti	L	SCT	L	SCT	L	SCT
		Sai	L	SCT	L	SCT	L	SCT
		Upper Ganga	L	SCT	L	SCT	L	SCT
4	Ghaghra	Lower Ghaghra	L	SCT	L	SCT	L	SCT
		Middle Ghaghra	L	SCT	L	SCT	L	SCT
		Upper Ghaghra	L	SCT	L	SCT	L	SCT
5	Ramganga	Ramganga	L	SCT	L	SCT	L	SCT
6	Rapti	Rapti	L	SCT	L	SCT	L	SCT
7.	Sharda	Sharda	L	SCT	L	SCT	L	SCT

QPF in Ranges (mm)	UNLISTED	0	0.1-10	11-25	26-50	51-100	>100
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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	H	ISOL				
Bhagirathi	Bhagirathi						
Ganga	Chhatnag to Mirzapur			H	ISOL	H	ISOL
	Narora to Phaphamau						
	Phaphamau to Ballia					H	ISOL
	Gomti						
	Sai						
	Upper Ganga	H	ISOL				
Ghaghra	Lower Ghaghra						
	Middle Ghaghra						
	Upper Ghaghra						
Ramganga	Ramganga	H	ISOL	H	ISOL		
Rapti	Rapti						
Sharda	Sharda						

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			

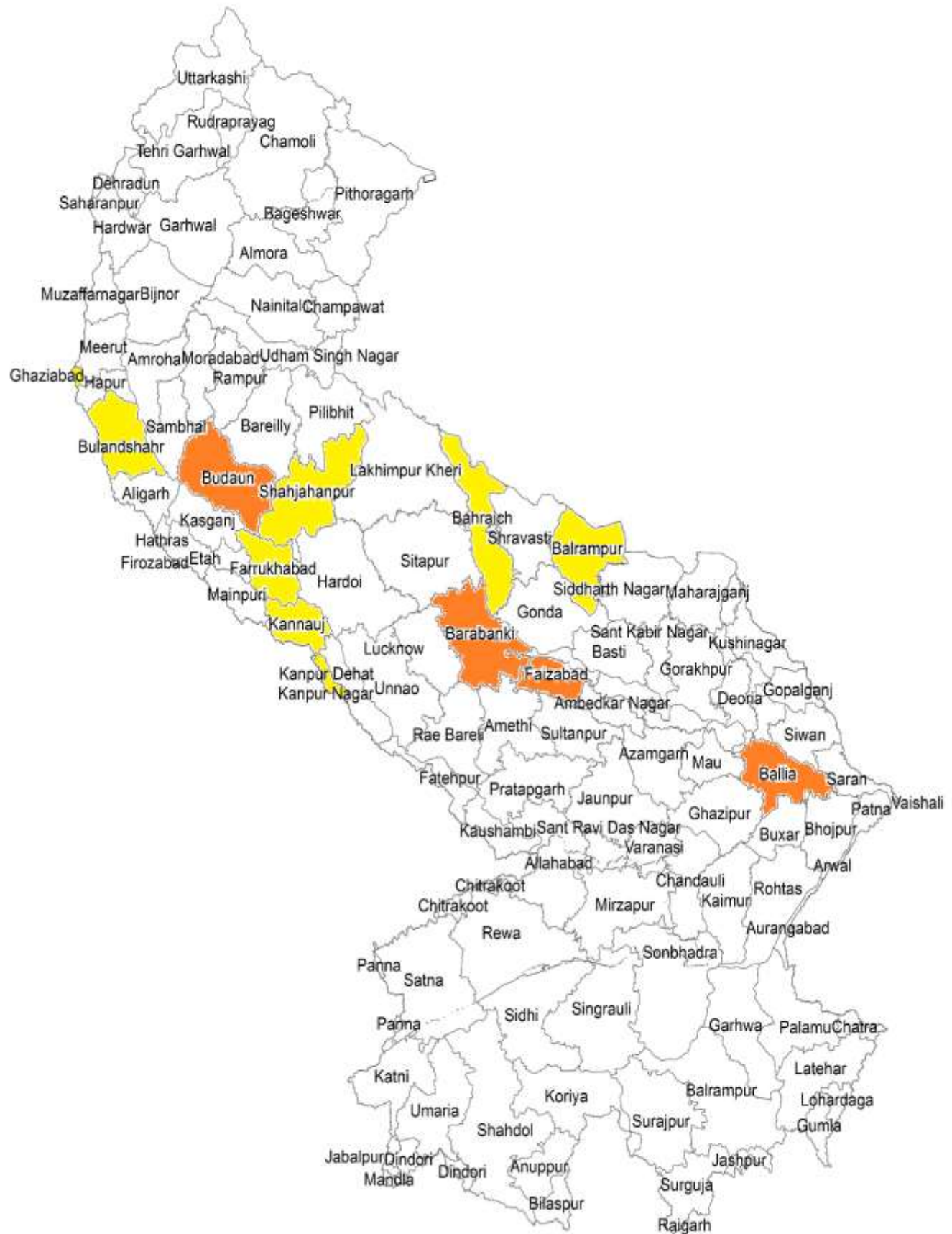
IV. PROBABILISTIC FORECAST

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		5-25	50-75	5-25			5-25	75-100	5-25					75-100	5-25				
2	Bhagirathi	Bhagirathi		75-100	5-25				5-25	75-100	5-25					75-100	5-25				
3	Ganga	Chhatnag to Mirzapur		75-100	5-25					5-25	75-100	5-25				5-25	75-100	5-25			
		Narora to Phaphamau		75-100	5-25				5-25	75-100	5-25					75-100	5-25				
		Phaphamau to Ballia		75-100	5-25					75-100	5-25					5-25	75-100	5-25			
		Gomti		75-100	5-25					75-100	5-25					75-100	5-25				
		Sai		75-100	5-25					75-100	5-25					75-100	5-25				
		Upper Ganga		75-100	5-25				5-25	75-100	5-25					75-100	5-25				
4	Ghaghra	Lower Ghaghra		75-100	5-25				5-25	75-100						75-100	5-25				
		Middle Ghaghra		75-100	5-25				5-25	75-100						75-100	5-25				
		Upper Ghaghra		75-100	5-25				5-25	75-100						75-100	5-25				
5	Ramganga	Ramganga		75-100	5-25				5-25	75-100						75-100	5-25				
6	Rapti	Rapti		75-100	5-25				5-25	75-100						5-25	75-100	5-25			
7.	Sharda	Sharda		75-100	5-25					75-100	5-25					75-100	5-25				

Probability of occurrence (%)	0-5	5-25	25-50	50-75	75-100
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2. Summary of flood situation as per CWC flood forecasting network

Flood Situation on 20 AUGUST, 2020



1. River Sarda at Shardanagar in KHERI district of Uttar Pradesh continues to flow in SEVERE SITUATION at 16:00 hrs today. At 16:00 hrs, it was flowing at a level of 135.56 m with Falling trend which is 0.07 m above its Danger Level of 135.49 m and 0.99 m below its previous HFL of 136.55 m (1993-09-16).
2. River Ghagra at Ayodhya in FAIZABAD district of Uttar Pradesh continues to flow in SEVERE SITUATION at 16:00 hrs today. At 16:00 hrs, it was flowing at a level of 93.49 m with Steady trend which is 0.76 m above its Danger Level of 92.73 m and 0.52 m below its previous HFL of 94.01 m (2009-10-11).
3. River Sarda at Paliakalan in KHERI district of Uttar Pradesh continues to flow in SEVERE SITUATION at 16:00 hrs today. At 16:00 hrs, it was flowing at a level of 154.51 m with Falling trend which is 0.41 m above its Danger Level of 154.1 m and 0.81 m below its previous HFL of 155.32 m (2014-07-21).
4. River Ghagra at Elginbridge in BARABANKI district of Uttar Pradesh continues to flow in SEVERE SITUATION at 16:00 hrs today. At 16:00 hrs, it was flowing at a level of 106.866 m with Steady trend which is 0.80 m above its Danger Level of 106.07 m and 0.75 m below its previous HFL of 107.616 m (2014-08-18).
5. River Ganga at Kachhlabridge in BUDAUN district of Uttar Pradesh continues to flow in SEVERE SITUATION at 16:00 hrs today. At 16:00 hrs, it was flowing at a level of 162.5 m with Steady trend which is 0.50 m above its Danger Level of 162.0 m and 0.29 m below its previous HFL of 162.79 m (2010-09-24).
6. River Ghagra at Turtipar in BALLIA district of Uttar Pradesh continues to flow in SEVERE SITUATION at 16:00 hrs today. At 16:00 hrs, it was flowing at a level of 65.03 m with Steady trend which is 1.02 m above its Danger Level of 64.01 m and 0.97 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 (≥ 50 mm or more)

Name of Place (State)	Rainfall (in mm)
Kalgarh Bijnor (U.P)	52.0

2.2 LEVEL FORECAST

LEVEL FORECAST		
S.No.	Flood Situations	No. of Forecasting Sites
A.	Extreme Flood Situation:	
	(Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalized)	0
B.	Severe Flood Situation :	
	(Site(s) where water Level touching or exceeding the Danger Level but below Highest Flood Level(HFL)	4
C.	Above Normal Flood Situation:	
	(Site (s) where water level touching or exceeding the warning Level but below Danger Level)	5
Total Numbers of Sites above Warning Level (A+B+C)		9
INFLOW FORECAST		
Number of Sites for which inflow forecasts issued:		3
(Where inflow are equal or exceed the specified Threshold Limit for a particular reservoir/ barrage)		3

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	103.87	0800	S	103.75	22.08.20	0800	F
Ganga	Garhmukteshwar	Ghaziabad	U.P	199.33	198.33	199.9	2010	198.84	0800	R	198.90	22.08.20	0800	R
Ganga	Fatehgarh	Farukhabad	U.P	137.6	136.60	138.14	2010	137.41	0800	S	137.35	22.08.20	0800	F
Ganga	Ankinghat	Kanpur Dehat	U.P	124.0	123.0	124.42	2010	123.42	0800	R	123.45	22.08.20	0800	R
Ganga	Gumatiya	Kannauj	U.P	125.97	124.97	126.78	2010	125.05	0800	S	125.05	22.08.20	0800	S
Ramganga	Muradabad	Muradabad	UP	190.60	189.60	192.88	2010	189.83	0/00	R	190.05	22.08.20	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	65.03	0800	F	64.98	22.08.20	0800	F
Ghaghra	Elgin Bridge	Barabanki	U.P	106.07	105.07	107.616	2014	106.876	0800	F	106.75	22.08.20	0800	F
Ghaghra	Ayodhya	Faizabad	U.P	92.73	91.73	94.01	2009	93.46	0800	F	93.50	22.08.20	0800	R
Ganga	Kachhla bridge	Budaun	U.P	161.00	162.00	162.79	2010	162.47	0800	S	162.60	22.08.20	0800	R

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

[illegible]

Note - No Station is in this situation Dated 21.08.2020

2.6 Inflow Forecast

[illegible]

Advisory on Hydro Meteorological Situation Expected from 22-08-2020 to 23-08-2020

As per rainfall pattern given in section II, Alaknanda, Bhagirathi, Ganga rivers are expected to receive light rain at scattered areas in next 48 hrs. Ghaghra, Ramganga, Sharda & Rapti river basins are expected to receive light rain at scattered 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.

अधिशालसीअभियंता

मध्य गंगा मण्डल -1 लखनऊ