



Central Water Commission
Upper Ganga Basin Organisation, Lucknow
Daily Flood Situation Report Cum Advisories
Date: 23 SEPTEMBER, 2020

FSR No.93

Dated 23-09-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

- ♦ The Low Pressure Area over north Chhattisgarh & neighbourhood over northern parts of East Madhya Pradesh & neighbourhood now lies over central parts of West Madhya Pradesh & neighbourhood with the associated cyclonic circulation extending upto 5.8 km above mean sea level tilting southwestwards with height. It is likely to recurve northeastwards during next 24 hours.
- ♦ The monsoon trough at mean sea level now passes through Jaisalmer, Bhilwara, center of Low Pressure Area over central parts of West Madhya Pradesh & neighbourhood, Siddhi, Daltongunj, Jamshedpur, Digha and thence eastsoutheastwards towards Northeast Bay of Bengal and extends upto 0.9 km above mean sea level.
- ♦ The cyclonic circulation over Northwest Rajasthan & adjoining Punjab now lies over West Rajasthan & 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	26-50	11-25
		Narora to Phaphamau	0.1-10	0.1-10	0.1-10
		Phaphamau to Ballia	26-50	26-50	11-25
		Gomti	0.1-10	11-25	0.1-10
		Sai	11-25	26-50	11-25
		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	0.1-10
		Upper Ghaghra	0.1-10	0.1-10	0.1-10
5	Ramganga	Ramganga	0.1-10	0.1-10	0.1-10
6	Rapti	Rapti	11-25	11-25	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	L	SCT	VL	ISOL	VL	ISOL
2	Bhagirathi	Bhagirathi	L	SCT	VL	ISOL	VL	ISOL
3	Ganga	Chhatnag to Mirzapur	M	WS	M	WS	M	WS
		Narora to Phaphamau	L	SCT	L	SCT	L	SCT
		Phaphamau to Ballia	M	WS	M	WS	M	WS
		Gomti	M	FWS	M	WS	M	FWS
		Sai	M	WS	M	WS	M	WS
		Upper Ganga	L	SCT	VL	ISOL	VL	ISOL
4	Ghaghra	Lower Ghaghra	M	WS	M	WS	M	FWS
		Middle Ghaghra	M	WS	M	WS	M	FWS
		Upper Ghaghra	M	FWS	M	FWS	M	FWS
5	Ramganga	Ramganga	L	SCT	VL	ISOL	VL	ISOL
6	Rapti	Rapti	M	WS	M	WS	M	WS
7.	Sharda	Sharda	L	SCT	VL	ISOL	VL	ISOL

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

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 23 SEPTEMBER, 2020



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)
Bird Ghat (U.P)	55.2
Salempur (U.P)	74.0
Thal (U.K)	52.4
Hrishikesh (U.K)	60.4
Banbasa (U.K)	74.8
Banbasa Barrage (U.K)	75.0
Valmiki Nagar (B.R)	67.4

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)	0
C.	Above Normal Flood Situation:	
	(Site (s) where water level touching or exceeding the warning Level but below Danger Level)	0
Total Numbers of Sites above Warning Level (A+B+C)		0
INFLOW FORECAST		
Number of Sites for which inflow forecasts issued:		02
(Where inflow are equal or exceed the specified Threshold Limit for a particular reservoir/ barrage)		02

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

Note - No Station is in this situation Dated 23.09.2020

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

Note - No Station is in this situation Dated 23.09.2020

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 23.09.2020

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
Rihand	Rihand Dam	Sonbhadra	U.P		265.18				0800	R	598.00	24.09.20	0800	R
Sone	Bansagar Dam	Shahdol	M.P		341.64				0800	R	867.00	24.09.20	0800	R

Advisory on Hydro Meteorological Situation Expected from 24-09-2020 to 25-09-2020

As per rainfall pattern given in section II, Alaknanda, Bhagirathi & Ganga rivers are expected to receive light to moderate rain at scattered to widespread areas in next 48 hrs. Ghaghra, Ramganga, Sharda & Rapti river basins are expected to receive moderate to high rain at scattered to fairly widespread areas in next 48 hours. Water level at most of CWC stations are expected to slightly raise/steady 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, Normal situation is expected in Ganga, Ghaghra, Rapti & Sharda river basins.

अधिशालसीअभियंता

मध्य गंगा मण्डल -1 लखनऊ