



**Central Water Commission**  
**Upper Ganga Basin Organisation, Lucknow**  
**Daily Flood Situation Report Cum Advisories**  
**Date: 16 SEPTEMBER, 2020**

**FSR No.86**

**Dated 16-09-2020**

**1. Weather forecast by IMD**

**I. SYNOPTIC SITUATION:**

- ♦ Western end of the monsoon trough runs close to foothills of Himalayas. The Eastern end passes through Bareilly, Varanasi, Hazaribagh, Malda and thence eastwards to Nagaland across Bangladesh and Assam & Meghalaya.
- ♦ The cyclonic circulation over northeast Rajasthan & neighbourhood now lies over central parts of Rajasthan & neighbourhood and extends upto 0.9 km above mean sea level.
- ♦ A north-south trough runs from northeast Uttar Pradesh to southwest Madhya Pradesh at 0.9 km above mean sea level.
- ♦ The cyclonic circulation over northeast Rajasthan & neighbourhood now lies over central parts of Rajasthan & neighbourhood and extends upto 0.9 km above mean sea level.
- ♦ The cyclonic circulation over Northeast Arabian Sea & adjoining south Pakistan and extending upto 3.1 km above mean sea level tilting southwestwards with height has become less marked.

**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	0.1-10	0.1-10	0.1-10
		Narora to Phaphamau	0.1-10	0.1-10	0.1-10
		Phaphamau to Ballia	0.1-10	0.1-10	0.1-10
		Gomti	0.1-10	0.1-10	0.1-10
		Sai	0.1-10	0.1-10	0.1-10
		Upper Ganga	0.1-10	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	0.1-10	0.1-10	0.1-10
6	Rapti	Rapti	0.1-10	0.1-10	0.1-10
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	ISOL	L	ISOL	L	ISOL
2	Bhagirathi	Bhagirathi	L	ISOL	L	ISOL	L	ISOL
3	Ganga	Chhatnag to Mirzapur	L	ISOL	L	ISOL	L	ISOL
		Narora to Phaphamau	L	ISOL	L	ISOL	L	ISOL
		Phaphamau to Ballia	L	ISOL	L	ISOL	L	ISOL
		Gomti	L	ISOL	L	ISOL	L	ISOL
		Sai	L	ISOL	L	ISOL	L	ISOL
		Upper Ganga	L	ISOL	L	ISOL	L	ISOL
4	Ghaghra	Lower Ghaghra	L	ISOL	L	ISOL	L	ISOL
		Middle Ghaghra	L	ISOL	L	ISOL	L	ISOL
		Upper Ghaghra	L	ISOL	L	ISOL	L	ISOL
5	Ramganga	Ramganga	L	ISOL	L	ISOL	L	ISOL
6	Rapti	Rapti	L	SCT	M	SCT	L	SCT
7.	Sharda	Sharda	L	ISOL	L	ISOL	L	SCT

<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>
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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						
	Narora to Phaphamau						
	Phaphamau to Ballia						
	Gomti						
	Sai						
	Upper Ganga						
Ghaghra	Lower Ghaghra						
	Middle Ghaghra						
	Upper Ghaghra						
Ramganga	Ramganga						
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	25-50	50-75					25-50	50-75					25-50	50-75				
2	Bhagirathi	Bhagirathi	25-50	50-75					25-50	50-75					25-50	50-75				
3	Ganga	Chhatnag to Mirzapur	5-25	75-100					5-25	75-100						75-100	5-25			
		Narora to Phaphamau	25-50	50-75					25-50	50-75					25-50	50-75				
		Phaphamau to Ballia		75-100	5-25					75-100	5-25					75-100	5-25			
		Gomti	25-50	50-75					5-25	75-100						75-100	5-25			
		Sai	25-50	50-75					5-25	75-100						75-100	5-25			
		Upper Ganga	25-50	50-75					25-50	50-75					25-50	50-75				
4	Ghaghra	Lower Ghaghra	25-50	50-75						75-100	5-25					75-100	5-25			
		Middle Ghaghra	25-50	50-75					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	25-50	50-75					25-50	50-75					25-50	50-75				
6	Rapti	Rapti		75-100	5-25					75-100	5-25					75-100	5-25			
7.	Sharda	Sharda	5-25	75-100					25-50	50-75						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 16 SEPTEMBER, 2020



**Note - No station is in flood situation Dated 16.09.2020.**

## 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)
Varanasi (U.P)	57.0
Bird Ghat (U.P)	86.0

## 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)	0
C.	<b>Above Normal Flood Situation:</b>	
	(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:		0
(Where inflow are equal or exceed the specified Threshold Limit for a particular reservoir/ barrage)		0

### 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 16.09.2020

### 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 16.09.2020

## 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 16.09.2020

## 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

Note - No Station is in this situation Dated 16.09.2020

**Advisory on Hydro Meteorological Situation Expected from 17-09-2020 to 18-09-2020**

As per rainfall pattern given in section II, Alaknanda, Bhagirathi & Ganga rivers are expected to receive light rain at isolated areas in next 48 hrs. Ghaghra, Ramganga, Sharda & Rapti river basins are expected to receive light rain at isolated areas in next 48 hours. Water level at most of CWC stations are expected to steady/fall 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