

Central Water Commission Upper Ganga Basin Organisation, Lucknow Daily Flood Situation Report Cum Advisories Date: 24 SEPTEMBER, 2020

FSR No.94 Dated 24-09-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

- ♦ The Low Pressure Area over central parts of East Uttar Pradesh & neighbourhood and associated cyclonic circulation extending upto 5.8 km above mean sea level persists. It is likely to move east southeastwards during next 48 hours.
- ♦ The monsoon trough at mean sea level now passes through Bikaner, Alwar, center of Low Pressure Area over central parts of East Uttar Pradesh & neighbourhood, Gaya, Malda and thence eastwards to Manipur across Bangladesh and south Assam.
- ♦ The trough at mean sea level now runs from north Madhya Maharashtra to the cyclonic circulation associated with Low Pressure Area over central parts of East Uttar Pradesh & neighbourhood and lies between 1.5 km & 4.5 km above mean sea level.
- ♦ The cyclonic circulation over West Rajasthan & neighbourhood now lies over Northeast Rajasthan and extends upto 0.9 km above mean sea level.

II. a) DETERMINISTIC FORECAST (QPF):

			QPF (mm))	
Sr. No.	No. BASIN NAME SUBBASIN CODE/NAME		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
		Chhatnag to Mirzapur	0.1-10	0.1-10	0.1-10
		Narora to Phaphamau	0.1-10	0.1-10	0.1-10
3	Ganga	Phaphamau to Ballia	11-25	0.1-10	0.1-10
3		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
		Lower Ghaghra	11-25	0.1-10	0.1-10
4	Ghaghra	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	11-25	0.1-10	0.1-10
7.	Sharda	Sharda	0.1-10	0.1-10	0.1-10

II (b) <u>DETERMINISTIC FORECAST (DISTRIBUTION)</u>

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

III. HEAVY RAINFALL WARNING:

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

	372 6	Intensity	of Rainfa	II	1995
M.Dry.	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	19/10	N 7000	A)T
ExH	Exceptionally Heavy Rainfall		he month or	e near about the highest reco season. However, this term xceeds 12 cm	

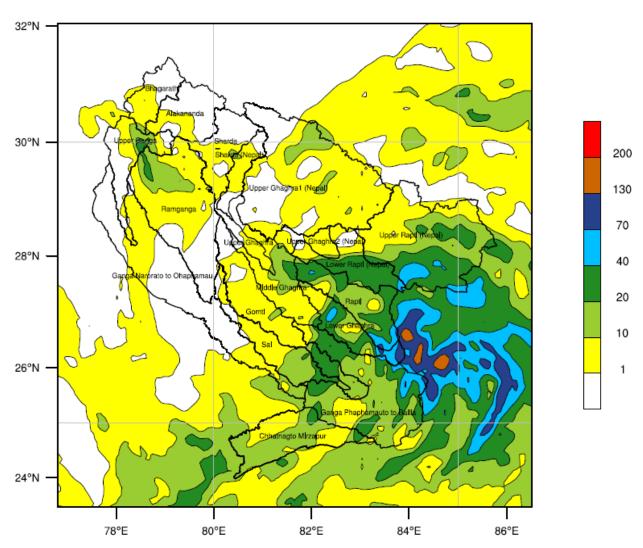
IV. PROBABILISTIC FORECAST

			Day-	1					Day-	Day-2					Day-3					
S. No.	BASIN NAME	SUBBASIN CODE/NAME	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				
		Chhatnag to Mirzapur		75-100						75-100						75-100				
		Narora to Phaphamau		75-100						75-100						75-100				
3	Ganga	Phaphamau to ballia		25-50	50-75					75-100						75-100				
		Gomti		75-100						75-100						75-100				
		Sai		75-100						75-100						75-100				
		Upper Ganga		75-100						75-100						75-100				
		Lower Ghaghra		75-100						75-100						75-100				
4	Ghaghra	Middle Ghaghra		75-100						75-100						75-100				
		Upper Ghaghra		75-100						75-100						75-100				
5	Ramganga	Ramganga		75-100						75-100						75-100				
6	Rapti	Rapti		25-50	50-75					75-100						75-100				
7.	Sharda	Sharda		75-100						75-100						75-100				

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

FLOOD MET OFFICE LUCKNOW

IMD WRF Rainfall (mm) Forecast(24hr)



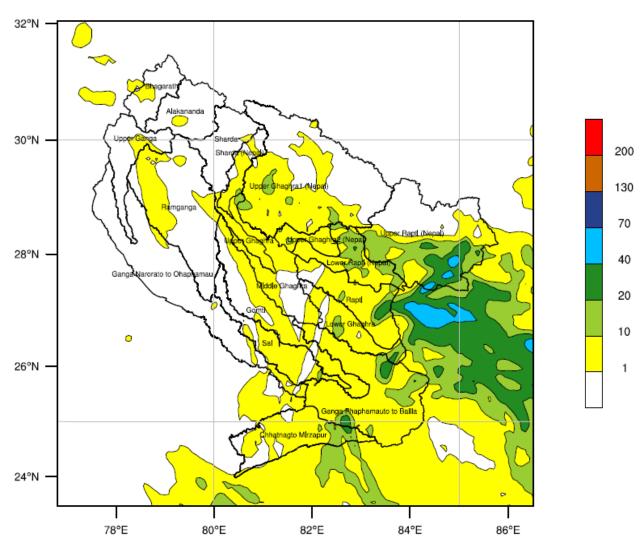
Sub basin wise Average Rainfall Estimation

Alaknanda =	1 mm	Raptl =	25 mm
Bhaglrathl =	2 mm	Sai =	9 mm
Chhatnagto Mirzapur =	11 mm	Sharda =	3 mm
Ganga Narorato Ohaphamau =	1 mm	Sharda (Nepal) =	3 mm
Ganga Phaphamauto Balia =	19 mm	Upper Ganga =	4 mm
Gomtl =	7 mm	Upper Ghaghra =	3 mm
Lower Ghaghara =	26 mm	Upper Ghaghra1 (Nepal) =	4 mm
Lower Raptl (Nepal) =	19 mm	Upper Ghaghra2 (Nepal) =	8 mm
Mlddle Ghaghara =	9 mm	Upper Raptl (Nepal) =	18 mm
Ramganga =	5 mm		

Init: 2020-09-24_00:00:00 Valld: 2020-09-26_03:00:00

FLOOD MET OFFICE LUCKNOW

IMD WRF Rainfall (mm) Forecast(48hr)



Sub basin wise Average Rainfall Estimation

Alaknanda =	0 mm	Raptl =	6 mm
Bhaglrathl =	0 mm	Sai =	2 mm
Chhatnagto Mirzapur =	4 mm	Sharda =	2 mm
Ganga Narorato Ohaphamau =	0 mm	Sharda (Nepal) =	1 mm
Ganga Phaphamauto Balia =	7 mm	Upper Ganga =	0 mm
Gomtl =	2 mm	Upper Ghaghra =	3 mm
Lower Ghaghara =	5 mm	Upper Ghaghra1 (Nepal) =	6 mm
Lower Raptl (Nepal) =	9 mm	Upper Ghaghra2 (Nepal) =	5 mm
Mlddle Ghaghara =	2 mm	Upper Raptl (Nepal) =	9 mm
Ramganga =	1 mm		

Flood Situation on 24 SEPTEMBER, 2020



2.1 Rainfall Situation

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

Name of Place (State)	Rainfall (in mm)
Banda (U.P)	104.8
Lucknow (U.P)	55.6
Sultanpur (U.P)	85.3
Jaunpur (U.P)	133.0
Sharda Nagar (U.P)	59.6
Motipur (U.P)	84.4
B.K.Ghat (U.P)	48.2
Ayodhya (U.P)	77.0
Turtipar (U.P)	200.4
Bansi (U.P)	124.4
Regauli (U.P)	85.2
Bird Ghat (U.P)	90.6
Kakrahi (U.P)	120.2
Uskabazar (U.P)	130.6
Trimohinighat (U.P)	81.6
Maniram (U.P)	74.4
Chandradeepghat (U.P)	57.0
Mukhlishpur (U.P)	60.0
Basti (U.P)	156.0
Hetimpur (U.P)	139.0
Salempur (U.P)	116.2
Gola Bazar (U.P)	112.2
Parsohanghat (U.P)	81.2
Chauhaanpatti (U.P)	136.6
Thoothibari (U.P)	68.6
Kukea (U.K)	98.8
Valmiki Nagar (B.R)	188.6

2.2 LEVEL FORECAST

	LEVEL FORECAST	
		No. of Forecasting
S.No.	Flood Situations	Sites
	Extreme Flood Situation:	
A.	(Site (s) where the previous Highest Flood Level (HFL) is exceeded or	
	equalized)	0
	Severe Flood Situation :	
	(Site(s) where water Level touching or exceeding the Danger Level but below	0
B.	Highest Flood Level(HFL)	
	Above Normal Flood Situation:	
C.	(Site (s) where water level touching or exceeding the warning Level but below	01
	Danger Level)	
	Total Numbers of Sites above Warning Level (A+B+C)	01
	INFLOW FORECAST	
Numbe	r of Sites for which inflow forecasts issued:	02
*	inflow are equal or exceed the specified Threshold Limit for a particular ir/ barrage)	02

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

Name of river	Flood	District	State	Danger Level(m)	Warning Level (m)	Previous Highest		Actı	ıal Leve		Forecast			
	Forecastin g Sites					Level (m)	Date	Level (m)	Time	Trend	Level (m)	Date	Time	Trend
Ghaghara	Turtipar	Balia	U.P	64.01	63.01	66.00	1998	63.39	0800	R	63.65	25.09.20	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	District	State	Danger	Warning Level (m)	Previous Highest					Forecast			
river	Sites			Level(m)		Level(m)	Date	Level(m)	Time	Trend	Level (m)	Date	Time	Trend

Note - No Station is in this situation Dated 24.09.2020

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

Name of river	Flood Forecasting Sites		6	Danger Level(m)	Warning Level (m)	Previous Highest		Actual Level			Forecast			
		District	State			Level(m)	Date	Level(m)	Time	Trend	Level (m)	Date	Time	Trend

Note - No Station is in this situation Dated 24.09.2020

2.6 Inflow Forecast

						Previous	s Highest	Actu	ial Level		ı			
Name of river	Flood Forecasting Sites	District	State	HFL(m)	FRL(m)	Discharge (Q)	Date	Discharge (Q)	Time	Trend	D (Q)	Date	Time	Trend
Rihand	Rihand Dam	Sonbhadra	U.P		265.18				0800	R	938.00	25.09.20	0800	R
Sone	Bansagar Dam	Shahdol	M.P		341.64				0800	R	1231.00	25.09.20	0800	R

Advisory on Hydro Meteorological Situation Expected from 25-09-2020 to 26-09-2020

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

अधिशासीअभियंता

मध्य गंगा मण्डल -1 लखनऊ