



Central Water Commission
Upper Ganga Basin Organisation, Lucknow
Daily Flood Situation Report Cum Advisories
Date: 04 OCTOBER, 2020

FSR No.104

Dated: 04-10-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

*The withdrawal line of the Southwest Monsoon continues to pass through Lat. 28°N/ Long.82°E, Bahraich, Gwalior, Sawai Madhopur, Jawai dam and Lat. 25°N/ Long.70°E.

*The Low Pressure Area over northwest Bay of Bengal & adjoining Odisha coast with associated cyclonic circulation extending upto 5.8 km above mean sea level tilting southwestwards with height persists.

II. a) DETERMINISTIC FORECAST (QPF):

Sr. No.	BASIN NAME	SUBBASIN CODE/NAME	QPF (mm)		
			Day-1	Day-2	Day-3
1	Alaknanda	Alaknanda	0	0	0
2	Bhagirathi	Bhagirathi	0	0	0
3	Ganga	Chhatnag to Mirzapur	11-25	11-25	11-25
		Narora to Phaphamau	0	0	0.1-10
		Phaphamau to Ballia	0.1-10	11-25	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	0	0
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	0	0
5	Ramganga	Ramganga	0	0	0
6	Rapti	Rapti	0.1-10	0.1-10	0.1-10
7.	Sharda	Sharda	0	0	0

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.Dry	DRY	M.Dry	DRY	M.Dry	DRY
2	Bhagirathi	Bhagirathi	M.Dry	DRY	M.Dry	DRY	M.Dry	DRY
3	Ganga	Chhatnag to Mirzapur	M	WS	M	WS	M	WS
		Narora to Phaphamau	M.Dry	DRY	M.Dry	DRY	VL	ISOL
		Phaphamau to Ballia	M	WS	M	WS	M	WS
		Gomti	VL	ISOL	VL	ISOL	VL	ISOL
		Sai	L	ISOL	L	ISOL	L	ISOL
		Upper Ganga	M.Dry	DRY	M.Dry	DRY	M.Dry	DRY
4	Ghaghra	Lower Ghaghra	VL	ISOL	VL	ISOL	VL	ISOL
		Middle Ghaghra	VL	ISOL	VL	ISOL	VL	ISOL
		Upper Ghaghra	M.Dry	DRY	M.Dry	DRY	M.Dry	DRY
5	Ramganga	Ramganga	M.Dry	DRY	M.Dry	DRY	M.Dry	DRY
6	Rapti	Rapti	VL	ISOL	VL	ISOL	VL	ISOL
7.	Sharda	Sharda	M.Dry	DRY	M.Dry	DRY	DRY	DRY

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						
	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					
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			
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

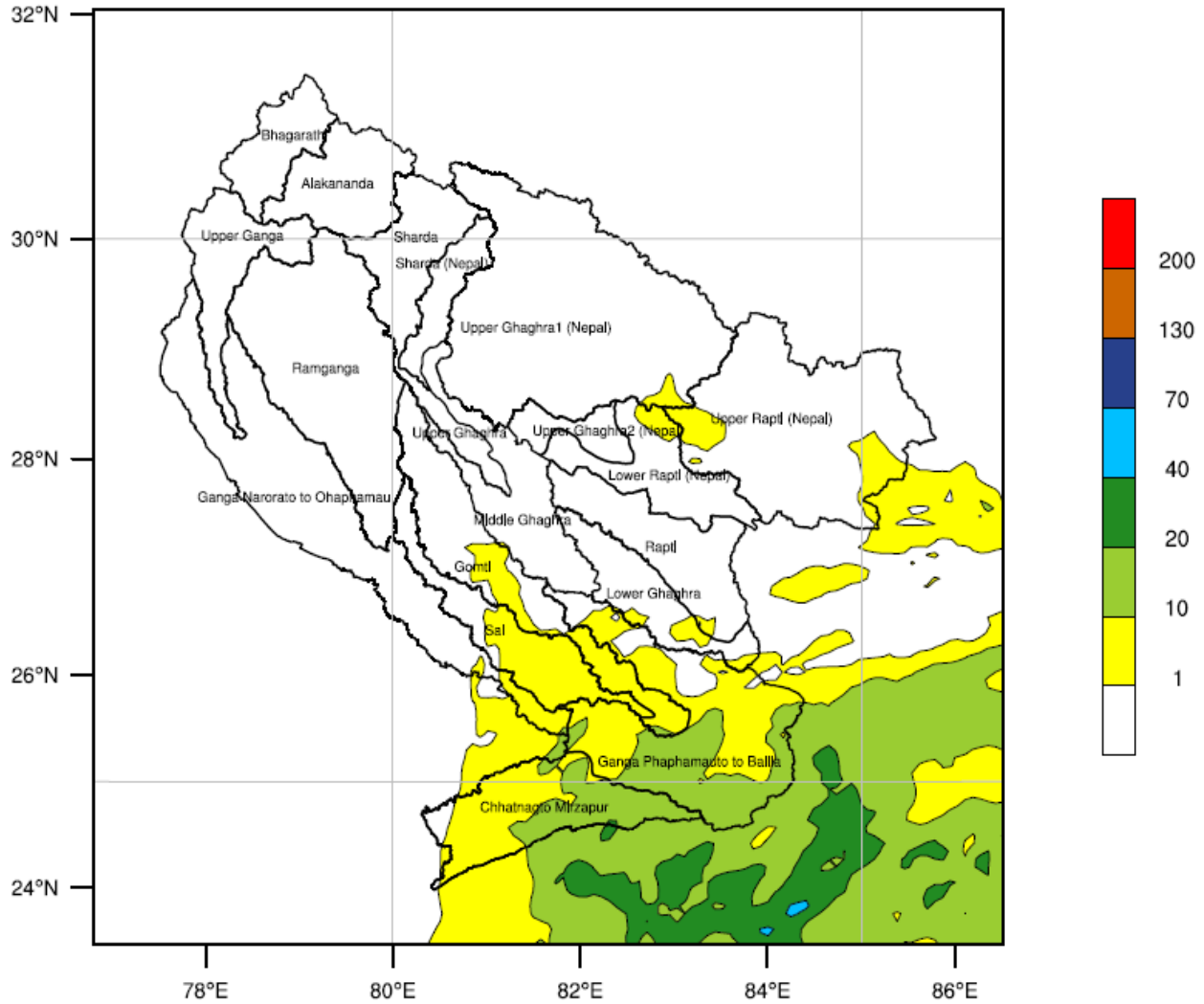
S. No.	BASIN NAME	SUBBASIN CODE/NAME	Day-1						Day-2						Day-3					
			0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm
1	Alaknanda	Alaknanda	75-100						75-100						75-100					
2	Bhagirathi	Bhagirathi	75-100						75-100						75-100					
3	Ganga	Chhatnag to Mirzapur		75-100						75-100						75-100				
		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						75-100						75-100				
		Sai		75-100						75-100						75-100				
		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	25-50	50-75					25-50	50-75					25-50	50-75				
		Upper Ghaghra	75-100						75-100						75-100					
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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Init: 2020-10-04_00:00:00
 Vald: 2020-10-05_03:00:00

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IMD WRF Rainfall (mm) Forecast(24hr)



Sub basin wise Average Rainfall Estimation

Alakananda =	0 mm	Rapti =	0 mm
Bhaglrathi =	0 mm	Sai =	2 mm
Chhatnagto Mirzapur =	8 mm	Sharda =	0 mm
Ganga Narorato Ohaphamau =	0 mm	Sharda (Nepal) =	0 mm
Ganga Phaphamauto Balia =	8 mm	Upper Ganga =	0 mm
Gomti =	1 mm	Upper Ghaghra =	0 mm
Lower Ghaghara =	0 mm	Upper Ghaghra1 (Nepal) =	0 mm
Lower Rapti (Nepal) =	0 mm	Upper Ghaghra2 (Nepal) =	0 mm
Middle Ghaghara =	0 mm	Upper Rapti (Nepal) =	0 mm
Ramganga =	0 mm		

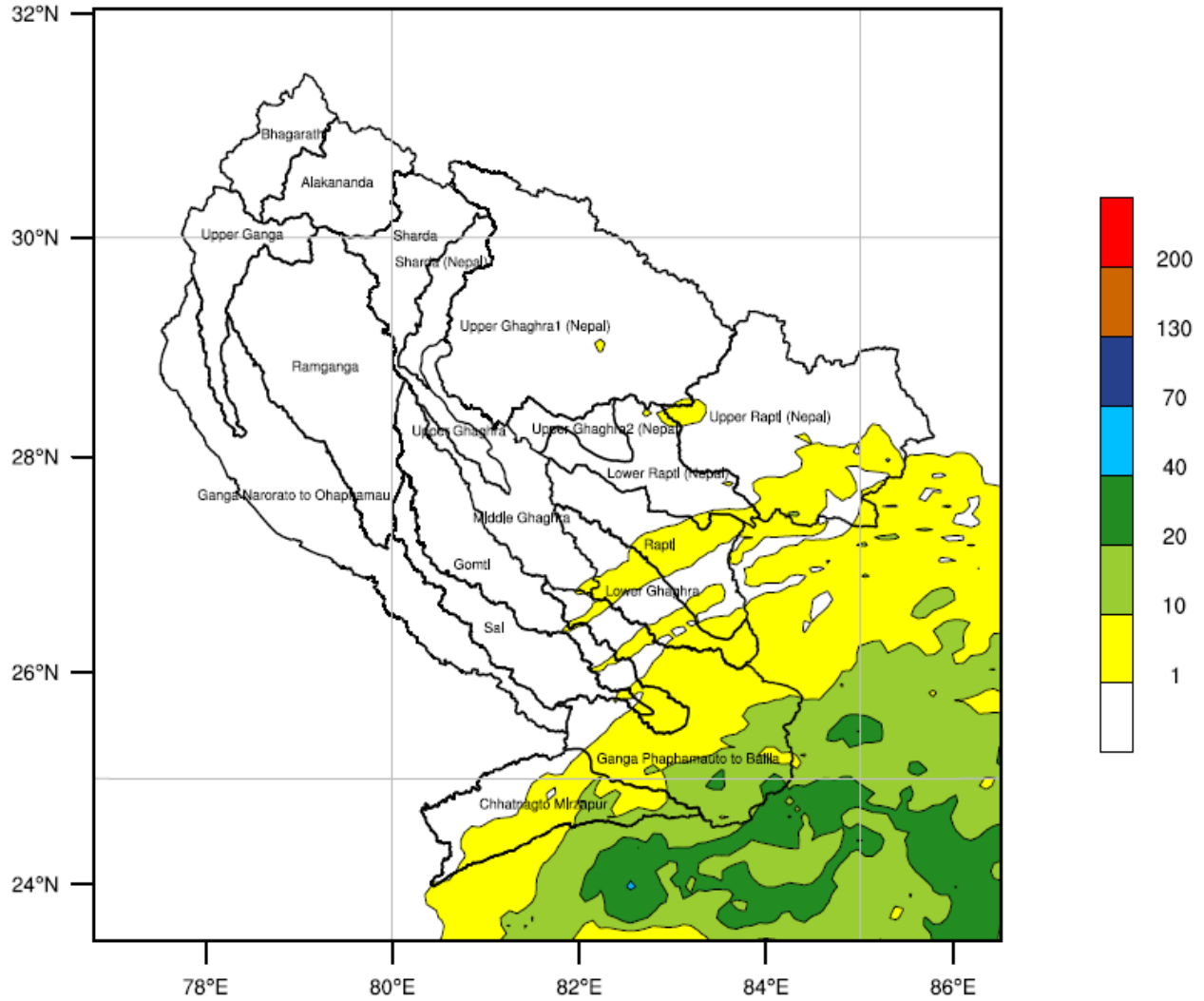
OUTPUT FROM WRF V3.6.1 MODEL

WE = 1001 ; SN = 945 ; Levels = 45 ; Dls = 9km ; Phys Opt = 16 ; PBL Opt = 2 ; Cu Opt = 5

Init: 2020-10-04_00:00:00
Vald: 2020-10-06_03:00:00

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IMD WRF Rainfall (mm) Forecast(48hr)



Sub basin wise Average Rainfall Estimation

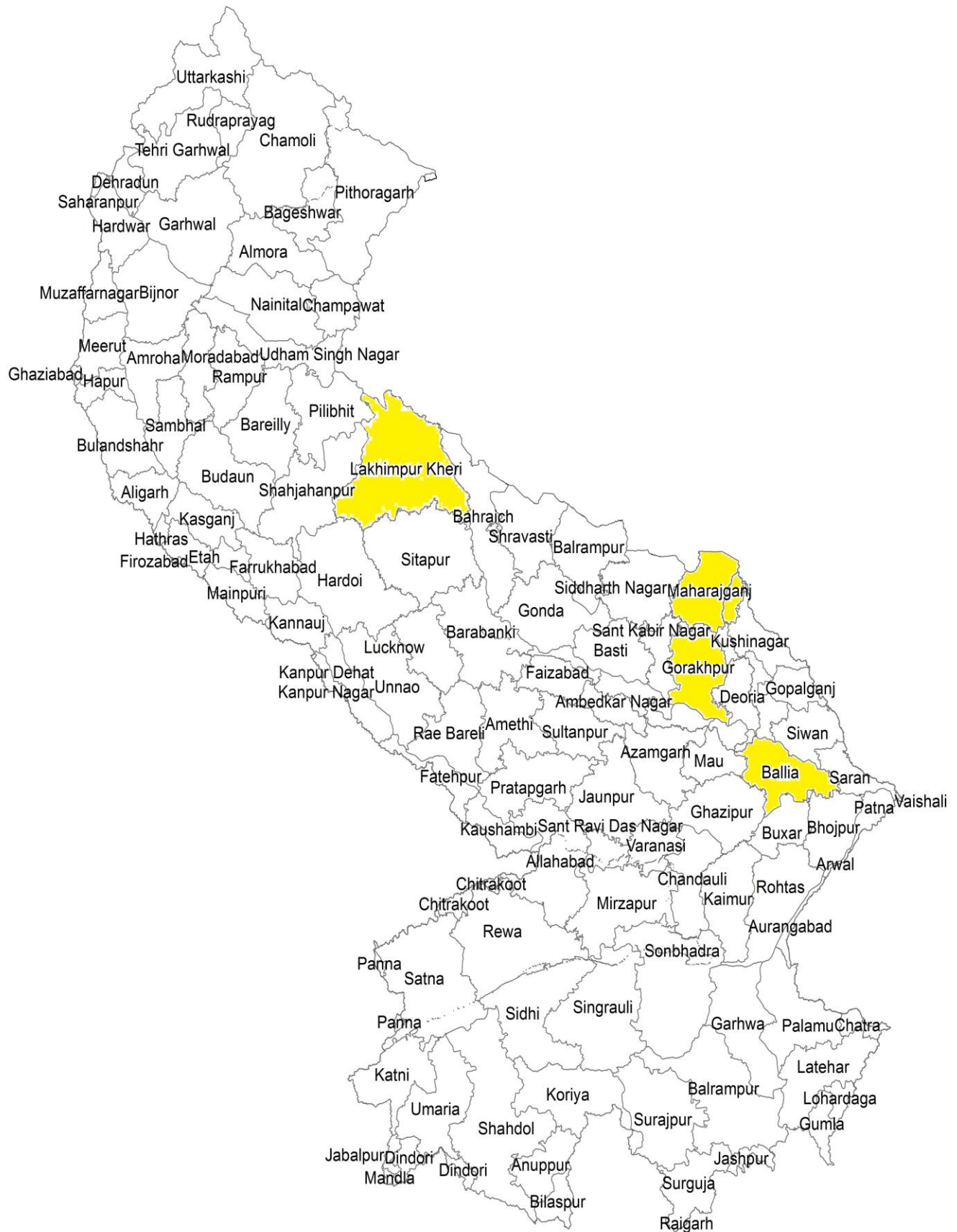
Alakananda =	0 mm	Rapti =	1 mm
Bhagirathi =	0 mm	Sai =	0 mm
Chhatnagto Mirzapur =	4 mm	Sharda =	0 mm
Ganga Narorato Ohaphamau =	0 mm	Sharda (Nepal) =	0 mm
Ganga Phaphamauto Ballia =	7 mm	Upper Ganga =	0 mm
Gomti =	0 mm	Upper Ghaghra =	0 mm
Lower Ghaghra =	2 mm	Upper Ghaghra1 (Nepal) =	0 mm
Lower Rapti (Nepal) =	0 mm	Upper Ghaghra2 (Nepal) =	0 mm
Middle Ghaghra =	0 mm	Upper Rapti (Nepal) =	1 mm
Ramganga =	0 mm		

OUTPUT FROM WRF V3.6.1 MODEL

WE = 1001 ; SN = 945 ; Levels = 45 ; DIs = 9km ; Phys Opt = 16 ; PBL Opt = 2 ; Cu Opt = 5

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

Flood Situation on 04 OCTOBER, 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)
NIL	

Note - No Station is in this situation Dated 04.10.2020

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)	02
Total Numbers of Sites above Warning Level (A+B+C)		02
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)	year	Level (m)	Time	Trend	Level (m)	Date	Time	Trend
Ghaghara	Turtipar	Balia	U.P	64.01	63.01	66.00	1998	63.70	0800	F	63.55	05.10.20	0800	F
Rapti	Birdghat	Gorakhpur	U.P	74.98	73.98	77.54	1998	74.91	0800	F	74.45	05.10.20	0800	F

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 04.10.2020

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 04.10.2020

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 04.10.2020

Advisory on Hydro Meteorological Situation Expected from 05-10-2020 to 06-10-2020

As per rainfall pattern given in section II, Alaknanda, Bhagirathi river basins are expected to receive nil rain in next 48 hrs. Ganga river basin is expected to receive light to moderate rain at isolated areas in next 48 hrs. Ghaghara, Rapti river basins are expected to receive very light rain at isolated areas in next 48 hours. Ramganga, Sharda river basins are expected to receive nil rain 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, Above Flood Normal situation is expected continues in Ghaghara & Rapti river basins.

अधिशालीअभियंता

मध्य गंगा मण्डल -1 लखनऊ