



Central Water Commission
Upper Ganga Basin Organisation, Lucknow
Daily Flood Situation Report Cum Advisories
Date: 03 OCTOBER, 2020

FSR No.103

Dated: 03-10-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

- ♦ Ceasation of rainfall and reduction in moisture content indicate that Southwest Monsoon has further withdrawn from most parts of Rajasthan, some more parts of Uttar Pradesh and some parts of northwest Madhya Pradesh.
- ♦ The withdrawal line of the Southwest Monsoon now passes through Lat. 28°N/ Long.82°E, Bahraich, Gwalior, SawaiMadhopur, Jawai dam and Lat. 25°N/ Long.70°E.
- ♦ The Low Pressure Area over Northwest & adjoining Westcentral Bay of Bengal off Odisha-north Andhra Pradeshcoasts now lies over northwest Bay of Bengal & adjoining Odisha coast and the associated cyclonic circulation extends upto 5.8 km above mean sea level tilting southwestwards with height.
- ♦ The Cyclonic circulation at 7.6 km above mean sea level over south Chhattisgarh & neighbourhood now lies over south Odisha & neighbourhood.

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	0.1-10	0.1-10	0.1-10
		Narora to Phaphamau	0	0	0
		Phaphamau to Ballia	0.1-10	0.1-10	0.1-10
		Gomti	0.1-10	0.1-10	0.1-10
		Sai	0	0.1-10	0.1-10
		Upper Ganga	0	0	0
4	Ghaghra	Lower Ghaghra	0	0	0
		Middle Ghaghra	0	0	0
		Upper Ghaghra	0	0	0
5	Ramganga	Ramganga	0	0	0
6	Rapti	Rapti	0	0	0
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	L	ISOL	L	ISOL	L	SCT
		Narora to Phaphamau	M.Dry	DRY	M.Dry	DRY	M.Dry	DRY
		Phaphamau to Ballia	L	ISOL	L	SCT	L	SCT
		Gomti	L	ISOL	L	ISOL	L	ISOL
		Sai	M.Dry	DRY	L	ISOL	L	ISOL
		Upper Ganga	M.Dry	DRY	M.Dry	DRY	M.Dry	DRY
4	Ghaghra	Lower Ghaghra	M.Dry	DRY	M.Dry	DRY	M.Dry	DRY
		Middle Ghaghra	M.Dry	DRY	M.Dry	DRY	M.Dry	DRY
		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	M.Dry	DRY	M.Dry	DRY	M.Dry	DRY
7.	Sharda	Sharda	M.Dry	DRY	M.Dry	DRY	M.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

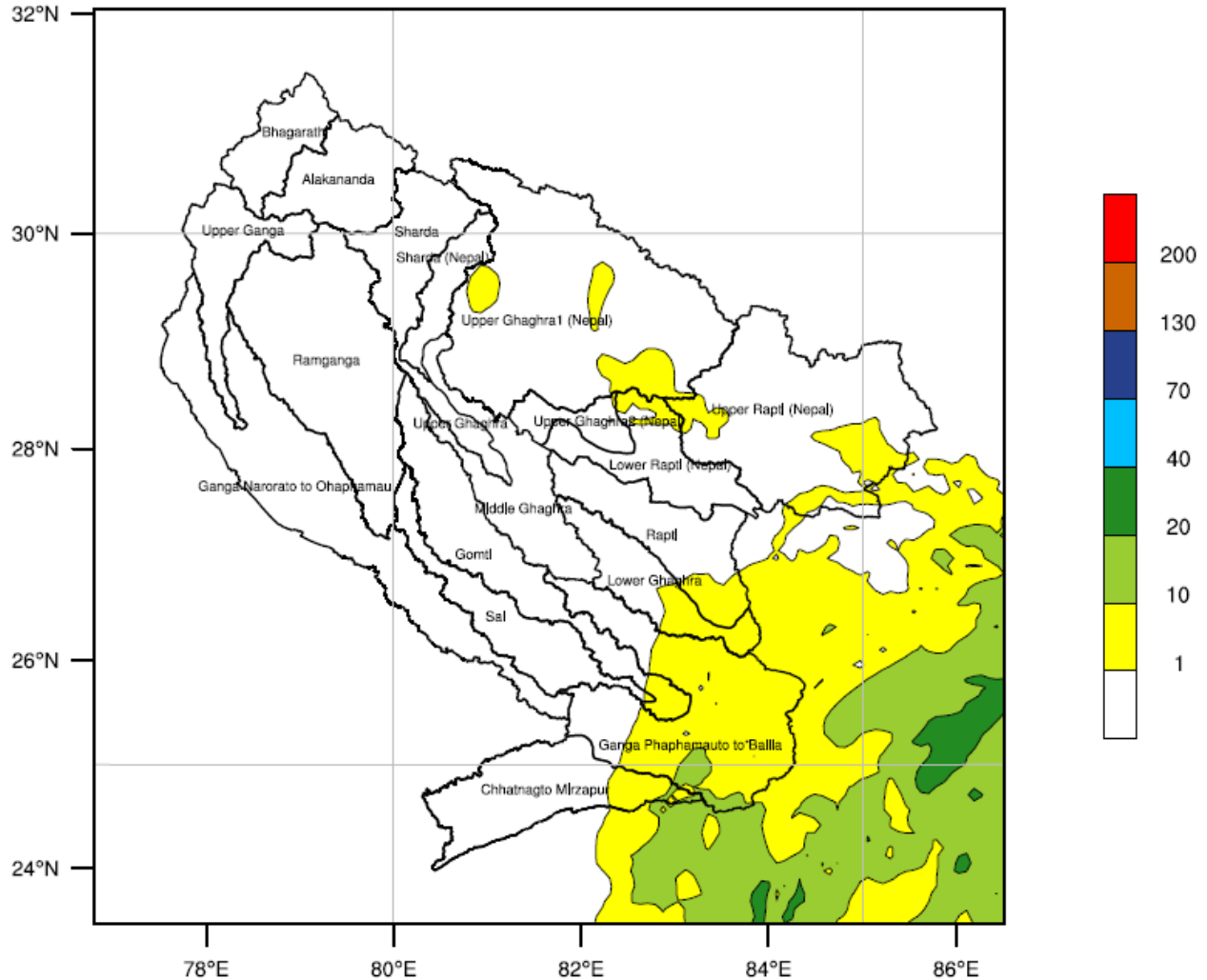
S. No.	BASIN NAME	SUBBASIN CODE/NAME	Day-1						Day-2						Day-3					
			0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm
1	Alaknanda	Alaknanda																		
2	Bhagirathi	Bhagirathi																		
3	Ganga	Chhatnag to Mirzapur	25-50	50-75					5-25	75-100					5-25	75-100				
		Narora to Phaphamau																		
		Phaphamau to ballia	25-50	50-75					5-25	75-100					5-25	75-100				
		Gomti	25-50	50-75					25-50	50-75					25-50	50-75				
		Sai							25-50	50-75					25-50	50-75				
		Upper Ganga																		
4	Ghaghra	Lower Ghaghra																		
		Middle Ghaghra																		
		Upper Ghaghra																		
5	Ramganga	Ramganga																		
6	Rapti	Rapti																		
7.	Sharda	Sharda																		

Probability of occurrence (%)	0-5	5-25	25-50	50-75	75-100
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Init: 2020-10-03_00:00:00
 Valld: 2020-10-04_03:00:00

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IMD WRF Rainfall (mm) Forecast(24hr)



Sub basin wise Average Rainfall Estimation

Alakananda =	0 mm	Rapti =	1 mm
Bhagirathi =	0 mm	Sai =	0 mm
Chhatnagto Mirzapur =	1 mm	Sharda =	0 mm
Ganga Narorato Ohaphamau =	0 mm	Sharda (Nepal) =	0 mm
Ganga Phaphamauto Ballia =	3 mm	Upper Ganga =	0 mm
Gomti =	0 mm	Upper Ghaghra =	0 mm
Lower Ghaghara =	1 mm	Upper Ghaghra1 (Nepal) =	0 mm
Lower Rapti (Nepal) =	0 mm	Upper Ghaghra2 (Nepal) =	0 mm
Middle Ghaghara =	0 mm	Upper Rapti (Nepal) =	1 mm
Ramganga =	0 mm		

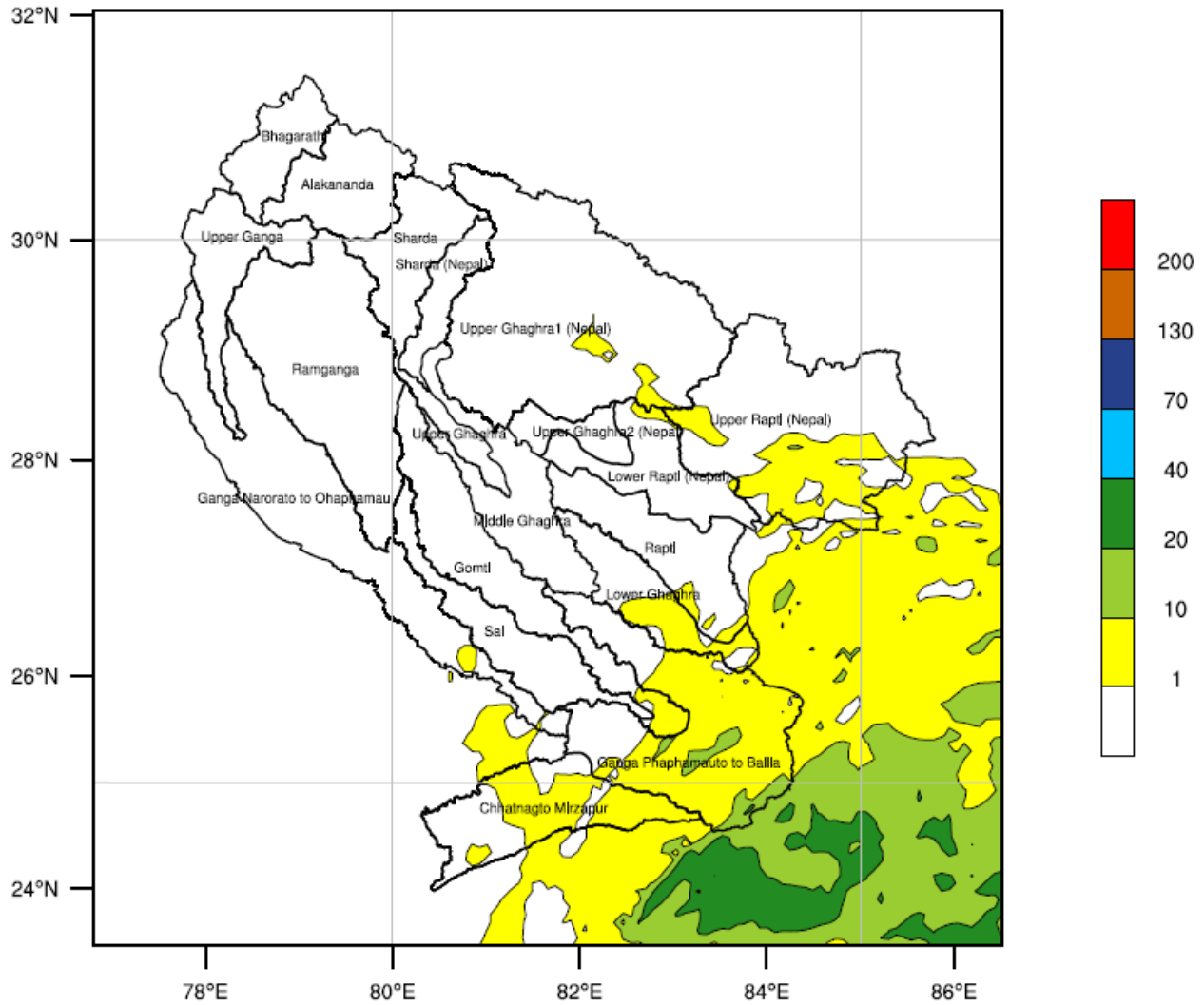
OUTPUT FROM WRF V3.6.1 MODEL

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

Init: 2020-10-03_00:00:00
 Vald: 2020-10-05_03:00:00

FLOOD MET OFFICE LUCKNOW

IMD WRF Rainfall (mm) Forecast(48hr)



Sub basin wise Average Rainfall Estimation

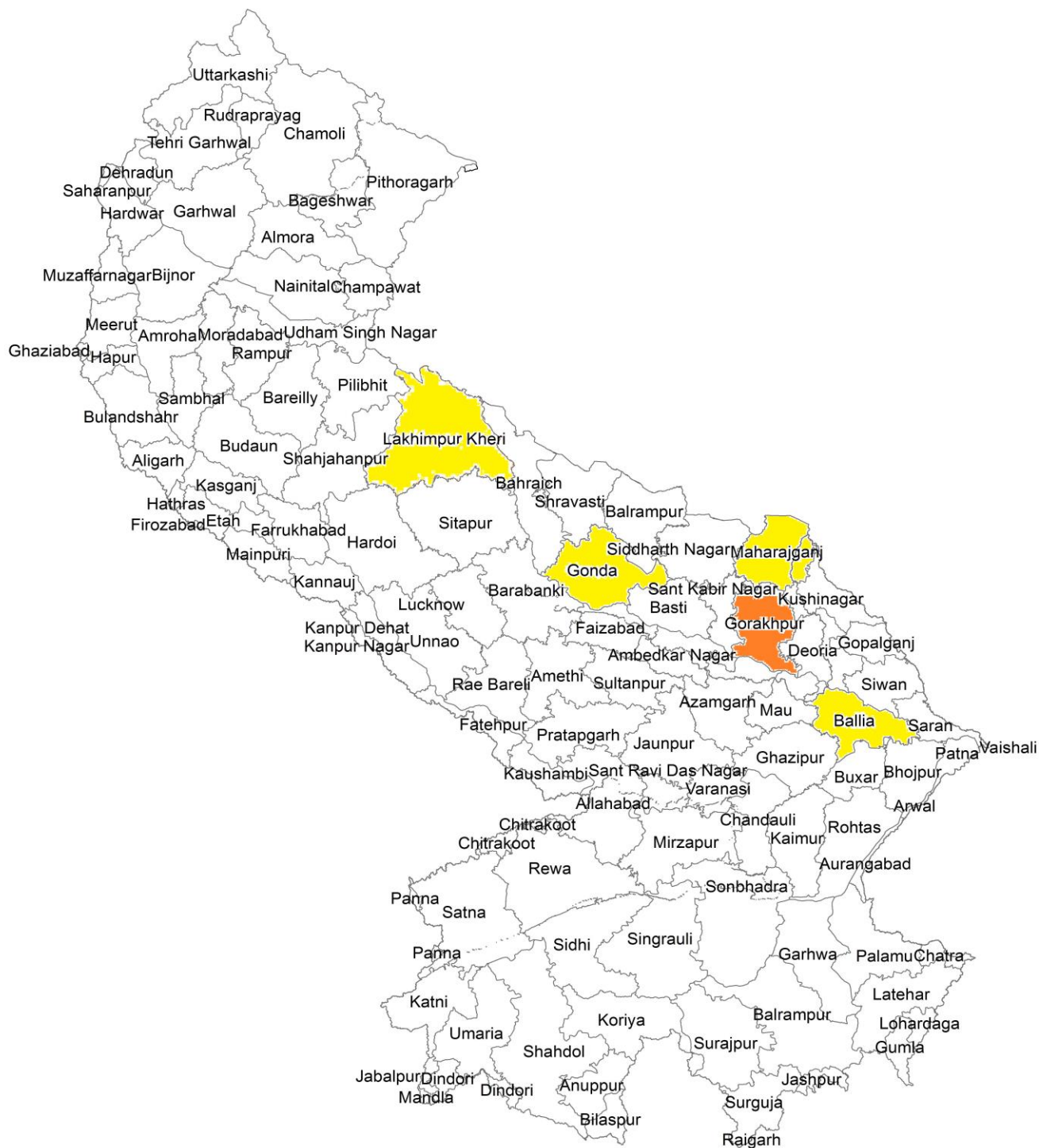
Alakananda =	0 mm	Rapti =	0 mm
Bhaglrathi =	0 mm	Sai =	0 mm
Chhatnagto Mirzapur =	2 mm	Sharda =	0 mm
Ganga Narorato Ohaphamau =	0 mm	Sharda (Nepal) =	0 mm
Ganga Phaphamauto Balia =	4 mm	Upper Ganga =	0 mm
Gomti =	0 mm	Upper Ghaghra =	0 mm
Lower Ghaghara =	1 mm	Upper Ghaghra1 (Nepal) =	0 mm
Lower Rapti (Nepal) =	0 mm	Upper Ghaghra2 (Nepal) =	0 mm
Middle Ghaghara =	0 mm	Upper Rapti (Nepal) =	1 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

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

Flood Situation on 03 OCTOBER, 2020



1. River Rapti at Birdghat in GORAKHPUR district of Uttar Pradesh continues to flow in SEVERE SITUATION at 14:00 hrs. today. At 14:00 hrs, it was flowing at a level of 75.17m with falling trend which is 0.19m above its Danger Level of 74.98 m and 2.37m below its previous HFL of 77.54 m (1998-08-23).

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 03.10.2020

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)	01
C.	Above Normal Flood Situation:	
	(Site (s) where water level touching or exceeding the warning Level but below Danger Level)	01
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)

[illegible]

2.4 Severe Flood Situation (Water Level touching or exceeding the Danger Level but below Highest Flood Level (HFL))

[illegible]

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 03.10.2020

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 03.10.2020

Advisory on Hydro Meteorological Situation Expected from 04-10-2020 to 05-10-2020

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 rain at isolated areas in next 48 hrs. Ghaghara, Ramganga, Sharda & Rapti 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 in Ghaghara & Rapti river basins.

अधिशसीअभियंता

मध्य गंगा मण्डल -1 लखनऊ