



Central Water Commission
Upper Ganga Basin Organisation, Lucknow
Daily Flood Situation Report Cum Advisories
Date: 26 SEPTEMBER, 2020

FSR No.96

Dated 26-09-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

- ♦ Condition are likely to become favourable for withdrawal of Southwest-Monsoon from West Rajasthan and adjoining areas around 28th Sept, 2020.
- ♦ The monsoon trough at mean sea level now passes through Amritsar, Patiala, Bareilly, Gorakhpur, center of Low Pressure Area over east Bihar & neighbourhood and thence east-northeastwards to Arunachal Pradesh across Assam.
- ♦ The Western Disturbance as a cyclonic circulation over central Pakistan & neighbourhood now lies over north Pakistan and adjoining Jammu & Kashmir between **5.8 km** & **7.6 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	0.1-10	0.1-10	0
		Narora to Phaphamau	0	0	0
		Phaphamau to Ballia	0.1-10	0.1-10	0
		Gomti	0	0	0
		Sai	0	0	0
		Upper Ganga	0.1-10	0.1-10	0
4	Ghaghra	Lower Ghaghra	0.1-10	0	0
		Middle Ghaghra	0.1-10	0	0
		Upper Ghaghra	0.1-10	0	0
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	VL	ISOL	VL	ISOL	M.Dry	DRY
		Narora to Phaphamau	M.Dry	DRY	M.Dry	DRY	M.Dry	DRY
		Phaphamau to Ballia	VL	ISOL	VL	ISOL	M.Dry	DRY
		Gomti	M.Dry	DRY	M.Dry	DRY	M.Dry	DRY
		Sai	M.Dry	DRY	M.Dry	DRY	M.Dry	DRY
		Upper Ganga	L	ISOL	VL	ISOL	M.Dry	DRY
4	Ghaghra	Lower Ghaghra	VL	ISOL	M.Dry	DRY	M.Dry	DRY
		Middle Ghaghra	VL	ISOL	M.Dry	DRY	M.Dry	DRY
		Upper Ghaghra	VL	ISOL	M.Dry	DRY	M.Dry	DRY
5	Ramganga	Ramganga	L	ISOL	L	ISOL	L	ISOL
6	Rapti	Rapti	L	ISOL	L	ISOL	L	ISOL
7.	Sharda	Sharda	L	ISOL	L	ISOL	L	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						
	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

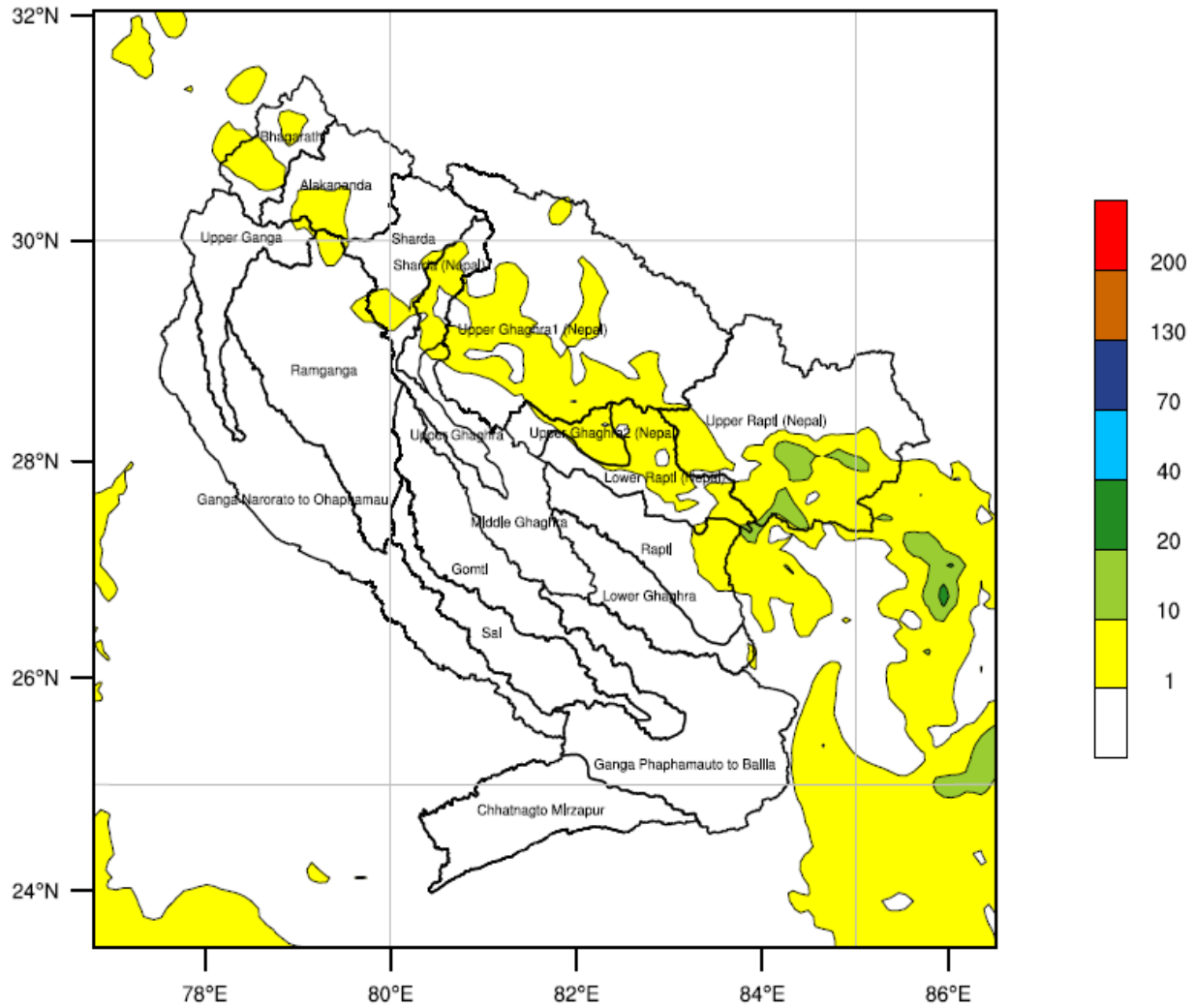
S. No.	BASIN NAME	SUBBASIN CODE/NAME	Day-1						Day-2						Day-3					
			0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm
1	Alaknanda	Alaknanda	5-25	75-100					5-25	75-100					25-50	50-75				
2	Bhagirathi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

Probability of occurrence (%)	0-5	5-25	25-50	50-75	75-100
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Init: 2020-09-26_00:00:00
Valld: 2020-09-27_03:00:00

FLOOD MET OFFICE LUCKNOW

IMD WRF Rainfall (mm) Forecast(24hr)



Sub basin wise Average Rainfall Estimation

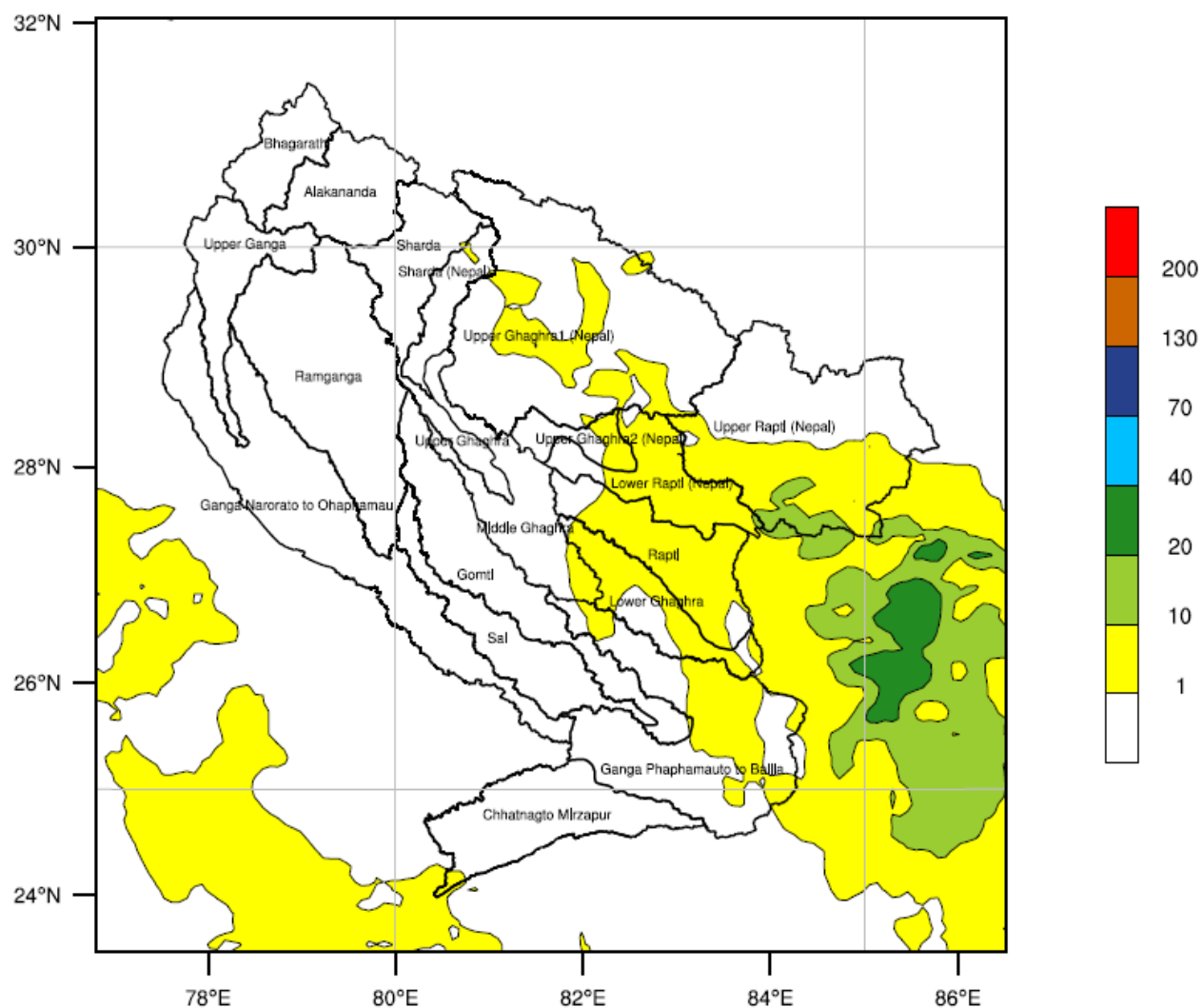
Alaknanda =	1 mm	Rapti =	1 mm
Bhagirathi =	1 mm	Sai =	0 mm
Chhatnagto Mirzapur =	0 mm	Sharda =	1 mm
Ganga Narorato Ohaphamau =	0 mm	Sharda (Nepal) =	0 mm
Ganga Phaphamauto Ballia =	0 mm	Upper Ganga =	0 mm
Gomti =	0 mm	Upper Ghaghra =	1 mm
Lower Ghaghara =	0 mm	Upper Ghaghra1 (Nepal) =	2 mm
Lower Rapti (Nepal) =	2 mm	Upper Ghaghra2 (Nepal) =	0 mm
Middle Ghaghara =	0 mm	Upper Rapti (Nepal) =	2 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: 2020-09-26_00:00:00
 Valld: 2020-09-28_03:00:00

FLOOD MET OFFICE LUCKNOW

IMD WRF Rainfall (mm) Forecast(48hr)



Sub basin wise Average Rainfall Estimation

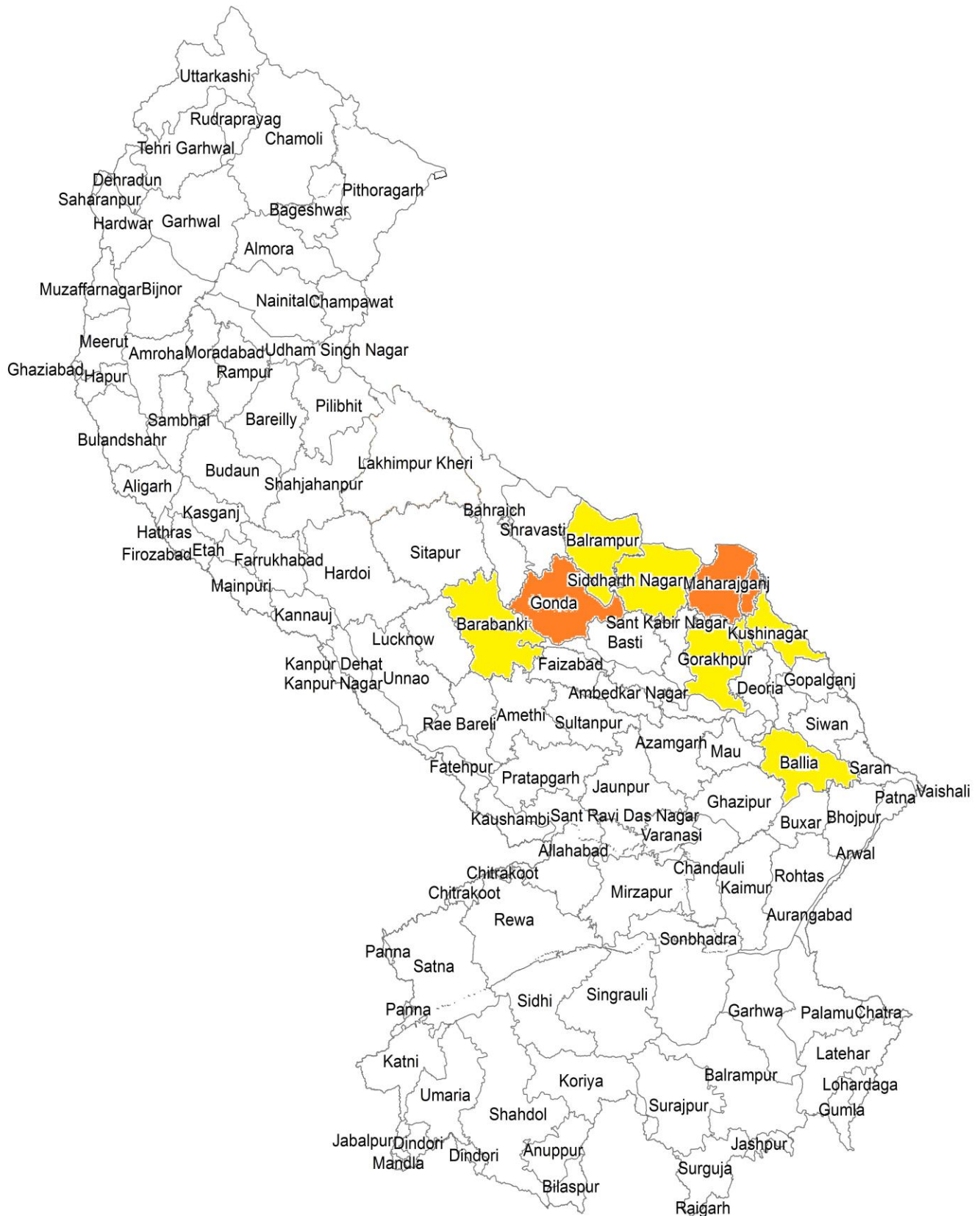
Alakananda =	0 mm	Rapti =	3 mm
Bhagirathi =	0 mm	Sai =	0 mm
Chhatnagto Mirzapur =	0 mm	Sharda =	0 mm
Ganga Narorato Ohaphamau =	0 mm	Sharda (Nepal) =	0 mm
Ganga Phaphamauto Ballia =	1 mm	Upper Ganga =	0 mm
Gomti =	0 mm	Upper Ghaghra =	1 mm
Lower Ghaghara =	2 mm	Upper Ghaghra1 (Nepal) =	1 mm
Lower Rapti (Nepal) =	4 mm	Upper Ghaghra2 (Nepal) =	0 mm
Middle Ghaghara =	0 mm	Upper Rapti (Nepal) =	3 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 26 SEPTEMBER, 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)
NIL	

Note - No Station is in this situation Dated 26.09.2020

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)	06
Total Numbers of Sites above Warning Level (A+B+C)		06
INFLOW FORECAST		
Number of Sites for which inflow forecasts issued:		01
(Where inflow are equal or exceed the specified Threshold Limit for a particular reservoir/ barrage)		01

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	Elginbridge	Barabanki	U.P	106.07	105.07	107.616	2014	105.256	0800	R	105.15	27.09.20	0800	F
Ghaghara	Turtipar	Balia	U.P	64.01	63.01	66.00	1998	63.89	0800	S	64.00	27.09.20	0800	R
Rapti	Balrampur	Balrampur	U.P	104.62	103.62	105.54	2017	104.21	0800	S	104.00	27.09.20	0800	F
Rapti	Bansi	Siddharth Nagar	U.P	84.90	83.90	85.88	2017	84.22	0800	R	84.40	27.09.20	0800	R
Rapti	Birdghat	Gorakhpur	U.P	74.98	73.98	77.54	1998	74.84	0800	R	75.20	27.09.20	0800	R
Gandak	Khadda	Kushinagar	B.R	96.00	95.00	97.50	2002	95.70	0800	F	95.45	26.09.20	1500	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 26.09.2020

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

[illegible]

Note - No Station is in this situation Dated 26.09.2020

2.6 Inflow Forecast

[illegible]

Advisory on Hydro Meteorological Situation Expected from 27-09-2020 to 28-09-2020

As per rainfall pattern given in section II, Alaknanda, Bhagirathi & Ganga rivers are expected to receive very light to light rain at dry to isolated areas in next 48 hrs. Ghaghara, 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 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