



Dated: 21/09/2021
Time of Issue: 1230 hrs IST

HYDROMET BULLETIN

1) Synoptic Situation:

◆ Under the influence of the cyclonic circulation over Gangetic West Bengal & neighbourhood, a Low-Pressure Area has formed over southern parts of Gangetic West Bengal & neighbourhood with an associated cyclonic circulation extending upto 5.8 km above mean sea level, tilting southwestwards with height. ◆ The cyclonic circulation over coastal Tamilnadu & neighbourhood now lies over south coastal Tamilnadu & neighbourhood and extends upto 0.9 km above mean sea level. ◆ The trough from cyclonic circulation over East Rajasthan to Northeast Arabian Sea across Gujarat at 3.1 km above mean sea level has become less marked.

2 a) River Sub-basin-wise Quantitative Precipitation Forecast (QPF)

Sl.No	Basin Name	Sub-basin Name	QPF (mm)				
			Day-1 (21/09/2021)	Day-2 (22/09/2021)	Day-3 (23/09/2021)	Day-4 (24/09/2021)	Day-5 (25/09/2021)
1	West Flowing Rivers	Bharathapuzha	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
2	West Flowing Rivers	Periyar	0.1-10	0.1-10	0.1-10	0.1-10	11-25
3	West Flowing Rivers	Lower Periyar	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
4	West Flowing Rivers	Upper Periyar	0.1-10	0.1-10	0.1-10	0.1-10	11-25
5	West Flowing Rivers	Chalakkudi	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
6	West Flowing Rivers	Meenachil	0.1-10	0.1-10	0.1-10	0.1-10	11-25
7	West Flowing Rivers	Pamba	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
8	West Flowing Rivers	Achankoil	0.1-10	0.1-10	0.1-10	0.1-10	11-25

QPF categories (mm)	0	0.1-10	11-25	26-37	38-50	51-75	76-100	>100
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Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

2 b) River Sub-basin-wise Intensity and Distribution of QPF

S. No.	Basin Name	Sub-basin Name	Intensity (I) and Spatial Distribution (D)									
			Day-1 (21/09/2021)		Day-2 (22/09/2021)		Day-3 (23/09/2021)		Day-4 (24/09/2021)		Day-5 (25/09/2021)	
			I	D	I	D	I	D	I	D	I	D
1.	WEST FLOWING RIVERS	Bharathapuzha	L	ISOL	L	ISOL	L	ISOL	L	ISOL	M	SCT
		Periyar	L	ISOL	L	ISOL	L	ISOL	M	ISOL	M	SCT
		Lower Periyar	L	ISOL	L	ISOL	L	ISOL	L	ISOL	M	SCT
		Upper Periyar	L	ISOL	L	ISOL	L	ISOL	M	ISOL	M	SCT
		Chalakkudi	L	ISOL	L	ISOL	L	ISOL	L	ISOL	M	SCT
		Meenachil	L	ISOL	L	ISOL	L	ISOL	M	ISOL	M	SCT
		Pamba	L	ISOL	L	ISOL	L	ISOL	M	ISOL	M	SCT
		Achankoil	L	ISOL	L	ISOL	L	ISOL	M	ISOL	M	SCT

Spatial Distribution		
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					
M.Dry	NIL	0 cm	VL	Very Light Rainfall	Trace
L	Light Rainfall	Upto 1 cm	M	Moderate Rainfall	2-6 cm
H	Heavy Rainfall	7-11 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.			

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3) River Sub-basin-wise Heavy Rainfall Warning

S. No.	Basin Name	Sub-basin Name	Day-1 (21/09/2021)		Day-2 (22/09/2021)		Day-3 (23/09/2021)		Day-4 (24/09/2021)		Day-5 (25/09/2021)	
			I	D	I	D	I	D	I	D	I	D
1.	WEST FLOWING RIVERS	Bharathapuzha	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
2.		Periyar	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
3.		Lower Periyar	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4.		Upper Periyar	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
5.		Chalakudi	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
6.		Meenachil	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
7.		Pamba	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
8.		Achankoil	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

Spatial Distribution		
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			
H	Heavy Rainfall	7-11 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.	

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4) River Sub-basin-wise Probabilistic QPF

Basin Name	Sub-basin Name	QPF Probability (%)																													
		Day-1 (21/09/2021) (QPF categories)					Day-2 (22/09/2021) (QPF categories)					Day-3 (23/09/2021) (QPF categories)					Day-4 (24/09/2021) (QPF categories)					Day-5 (25/09/2021) (QPF categories)									
		0	0.1-10	11-25	26-50	51-100	>100	0	0.1-10	11-25	26-50	51-100	>100	0	0.1-10	11-25	26-50	51-100	>100	0	0.1-10	11-25	26-50	51-100	>100	0	0.1-10	11-25	26-50	51-100	>100
	Bharathapuzha		50-75					50-75						25-50						50-75							50-75				
	Periyar		50-75					50-75						50-75						50-75							50-75	5-25			
	Lower Periyar		50-75					50-75						25-50						50-75							25-50				
	Upper Periyar		50-75					50-75						50-75						50-75							50-75	5-25			
	Chalakudi		50-75					50-75						25-50						50-75							25-50				
	Meenachil		50-75					50-75						25-50						50-75							25-50				
	Pamba		50-75					50-75						25-50						50-75							25-50	5-25			
	Achankoil		50-75					50-75						50-75						25-50							25-50	5-25			

Probability of occurrence (%)	0-5	5-25	25-50	50-75	75-100
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5) Outlook for subsequent two days

S No	Basin Name	Sub-basin Name	OUTLOOK	
			Day-6	Day-7
1.	WEST FLOWING RIVERS	Bharathapuzha	No large change	No large change
2.		Periyar	No large change	No large change
3.		Lower Periyar	No large change	No large change
4.		Upper Periyar	No large change	No large change
5.		Chalakudi	No large change	No large change
6.		Meenachil	No large change	No large change
7.		Pamba	No large change	No large change
8.		Achankoil	No large change	No large change

6) Station-wise significant rainfall recorded at 0830 HRS IST of today

S. No.	Name of Sub-Basin	Name of Station and Rainfall (≥ 5 cm.)
1	Bharathapuzha	-
2	Periyar	-
3	Lower Periyar	-
4	Upper Periyar	-
5	Chalakudi	-
6	Meenachil	-
7	Pamba	-
8	Achankoil	-

7) River Sub-basin-wise observed Average Areal Precipitation (AAP) of today

1.	WEST FLOWING RIVER	Bharathapuzha	0.3
2.	WEST FLOWING RIVER	Periyar	0.1
3.	WEST FLOWING RIVER	Lower Periyar	0.4
4.	WEST FLOWING RIVER	Upper Periyar	0.1
5.	WEST FLOWING RIVER	Chalakudi	0.3
6.	WEST FLOWING RIVER	Meenachil	0.1
7.	WEST FLOWING RIVER	Pamba	0.1
8.	WEST FLOWING RIVER	Achankoil	0.1

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