

भारत सरकार

भारत मौसम विज्ञान विभाग

(पृथ्वी विज्ञान मंत्रालय)

पता : मौसम विज्ञान केन्द्र, भुवनेश्वर

फोन न. २५९६०१० & २५९६११६

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GOVERNMENT OF INDIA

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HYDROMET BULLETIN

Synoptic Situation

◆The Low Pressure Area over northwest Madhya Pradesh has become less marked.

◆The Monsoon trough at mean sea level now passes through Gangangar, Hissar, Delhi, Aligarh, Fursatganj, Gaya, Bankura and thence southeastwards to Northeast Bay of Bengal.

◆ A cyclonic circulation lies over North Bay of Bengal & neighbourhood between 1.5 km & 5.8 km above mean sea level tilting southwestwards with height. Under its influence, a Low Pressure Area is likely to form over North Bay of Bengal & neighbourhood around 28th July, 2021.

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

S. No	Basin Name	Sub-basin Name	QPF (mm)				
			Day-1 (26.07.21)	Day-2 (27.07.21)	Day-3 (28.07.21)	Day-4 (29.07.21)	Day-5 (30.07.21)
1	SUBARNAREKHA	SR	11-25	11-25	26-37	26-37	26-37
2	BURHABALANG	BB	11-25	11-25	26-37	26-37	11-25
3	BAITARANI	BT	0.1-10	11-25	26-37	38-50	26-37
4	UPPER BRAHMANI	UB	0.1-10	11-25	11-25	38-50	26-37
5	LOWER BRAHMANI	LB	0.1-10	11-25	11-25	26-37	11-25
6	UPPER MAHANADI	UM	0.1-10	11-25	11-25	11-25	11-25
7	LOWERMAHANADI	LM	0.1-10	0.1-10	11-25	11-25	11-25
8	RUSHIKULYA	RK	0.1-10	0.1-10	0.1-10	11-25	0.1-10
9	VAMSADHARA	VD	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
10	NAGAVALI	NV	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10

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 (26.07.2021)		Day-2 (27.07.2021)		Day-3 (28.07.2021)		Day-4 (29.07.2021)		Day-5 (30.07.2021)	
			I	D	I	D	I	D	I	D	I	D
1	SUBARNAREKHA	SR	M	FWS	M	FWS	M	WS	M	WS	M	WS
2	BURHABALANG	BB	M	FWS	M	FWS	M	WS	M	WS	M	WS
3	BAITARANI	BT	L	SCT	M	FWS	M	WS	M	WS	M	WS
4	UPPER BRAHMANI	UB	L	SCT	M	FWS	M	WS	M	WS	M	WS
5	LOWER BRAHMANI	LB	L	SCT	M	FWS	M	WS	M	WS	M	WS
6	UPPER MAHANADI	UM	L	SCT	M	FWS	M	FWS	M	WS	M	WS
7	LOWER MAHANADI	LM	L	SCT	L	FWS	M	WS	M	WS	M	WS
8	RUSHIKULYA	RK	L	SCT	L	SCT	L	FWS	M	FWS	L	FWS
9	VAMSADHARA	VD	L	SCT	L	SCT	L	FWS	L	FWS	L	FWS
10	NAGAVALI	NV	L	SCT	L	SCT	L	FWS	L	FWS	L	FWS

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.			

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

3) River Sub-basin-wise Heavy Rainfall Warning

S. No.	Basin Name	Sub-basin Name	Day-1 (26.07.21)		Day-2 (27.07.21)		Day-3 (28.07.21)		Day-4 (29.07.21)		Day-5 (30.07.21)	
			I	D	I	D	I	D	I	D	I	D
1	SUBARNAREKHA	SR	NIL	NIL	H	ISOL	VH	ISOL	VH	ISOL	VH	ISOL
2	BURHABALANG	BB	NIL	NIL	NIL	NIL	H	ISOL	VH	ISOL	NIL	NIL
3	BAITARANI	BT	NIL	NIL	H	ISOL	VH	ISOL	VH	ISOL	VH	ISOL
4	UPPER BRAHMANI	UB	NIL	NIL	H	ISOL	H	ISOL	VH	ISOL	VH	ISOL
5	LOWER BRAHMANI	LB	NIL	NIL	NIL	NIL	VH	ISOL	VH	ISOL	H	ISOL
6	UPPER MAHANADI	UM	NIL	NIL	NIL	NIL	NIL	NIL	H	ISOL	H	ISOL
7	LOWER MAHANADI	LM	NIL	NIL	NIL	NIL	H	ISOL	H	ISOL	H	ISOL
8	RUSHIKULYA	RK	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
9	VAMSADHARA	VD	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
10	NAGAVALI	NV	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

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.			

4) River Sub-basin-wise Probabilistic QPF

Basin Name	Sub-basin Name	QPF Probability (%)																								
		Day-1 (26.07.2021) (QPF categories)					Day-2 (27.07.2021) (QPF categories)					Day-3 (28.07.2021) (QPF categories)					Day-4 (29.07.2021) (QPF categories)					Day-5 (30.07.2021) (QPF categories)				
		0	0.1-10	11-25	26-50	51-100	0	0.1-10	11-25	26-50	51-100	0	0.1-10	11-25	26-50	51-100	0	0.1-10	11-25	26-50	51-100	0	0.1-10	11-25	26-50	51-100
SUBARNAREKHA	SR																									
BURHABALANG	BB																									
BAITARANI	BT																									
UPPER BRAHMANI	UB																									
LOWER BRAHMANI	LB																									
UPPER MAHANADI	UM																									
LOWER MAHANADI	LM																									
RUSHIKULYA	RK																									
VAMSADHARA	VD																									
NAGAVALI	NV																									

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 (31.07.2021)	Day-7 (01.08.2021)
1	SUBARNAREKHA	SR	Decrease in Rainfall	No significant change
2	BURHABALANG	BB	Slight Decrease in Rainfall	No significant change
3	BAITARANI	BT	Decrease in Rainfall	No significant change
4	UPPER BRAHMANI	UB	Decrease in Rainfall	No significant change
5	LOWER BRAHMANI	LB	Slight Decrease in Rainfall	No significant change
6	UPPER MAHANADI	UM	Slight Decrease in Rainfall	No significant change
7	LOWER MAHANADI	LM	Slight Decrease in Rainfall	No significant change
8	RUSHIKULYA	RK	No significant change	No significant change
9	VAMSADHARA	VD	No significant change	No significant change
10	NAGAVALI	NV	No significant change	No significant 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	LOWER MAHANADI	Kanas (70.0)

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

S. No.	Basin Name	Sub-basin Name	AAP (mm)
1	SUBARNAREKHA	SR	2.2
2	BURHABALANG	BB	1.4
3	BAITARANI	BT	1.4
4	UPPER BRAHMANI	UB	4.2
5	LOWER BRAHMANI	LB	2.6
6	UPPER MAHANADI	UM	3.1
7	LOWER MAHANADI	LM	2.5
8	RUSHIKULYA	RK	1.4
9	VAMSADHARA	VD	0.9
10	NAGAVALI	NV	0.8

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