



Flood Bulletin, 2023

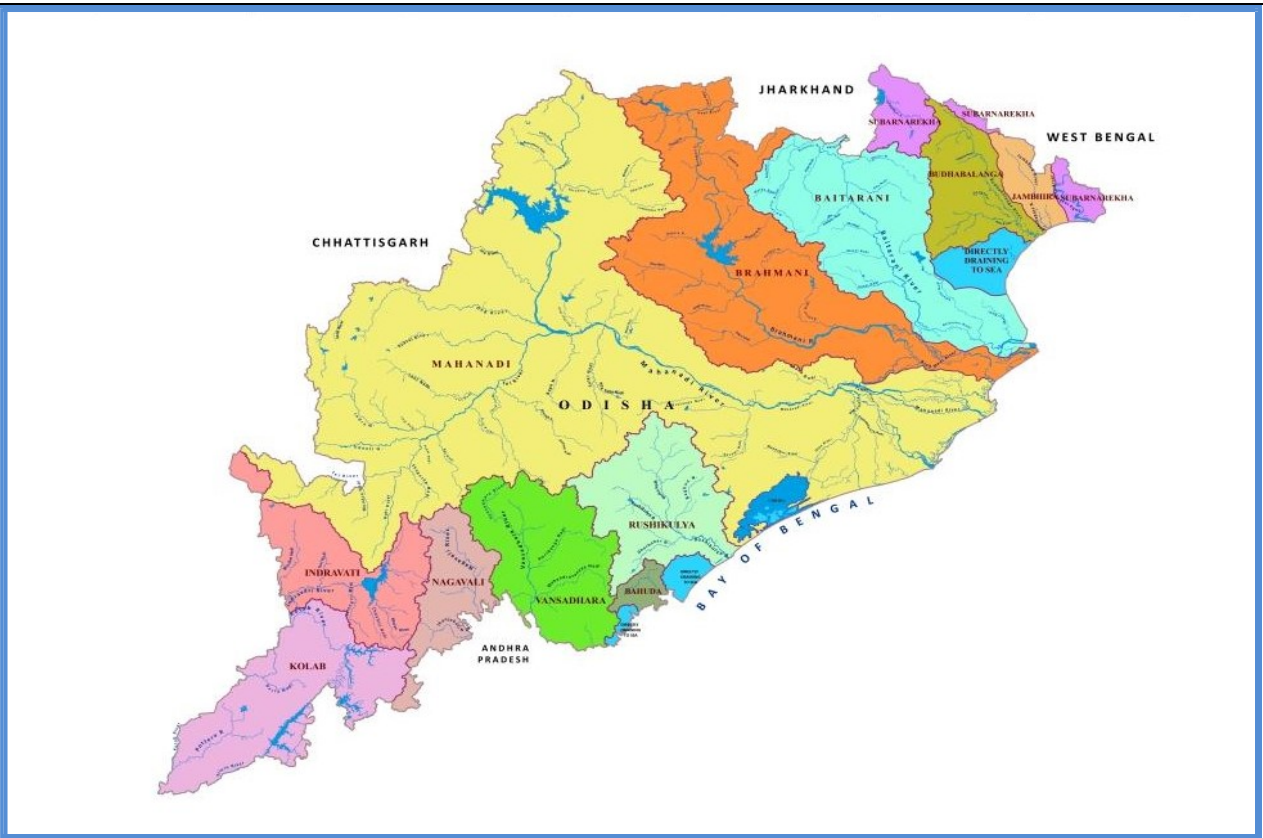
Government of Odisha

Department of Water Resources

Volume No.115

Date: 23.09.2023

Time: 14:00Hr



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Flood Cell

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Status of Gauge (in m)

Name of River	Gauge Site	Danger Level (DL)	Warning Level	Time (Hrs)	Present Level	Trend	(wrt DL)	Highest Recorded Level	
								Level	Date
Mahanadi	Khairmal	109.0	108.0	12:00	105.10	S	-3.9	108.31	19.09.08
	Tikarpara	-	-	12:00	63.28	R	-	74.98	30.08.82
	Naraj (IB)	26.41	25.41	12:00	24.03	R	-2.38	27.60	31.08.82
Kusabhadra	Nimapara	10.76	9.85	12:00	3.88	S	-6.88	11.60	31.08.82
Devi	Alipingala	11.76	10.85	12:00	6.50	S	-5.26	13.05	20.09.08
Brahmani	Panposh	178.42	177.51	12:00	174.35	F	-4.07	181.44	24.09.11
	Rengali	88.0	-	12:00	77.50	F	-10.5	92.25	18.08.75
	Talcher	62.91	-	12:00	54.99	R	-7.92	65.53	19.08.75
	Jenapur	23.0	22.0	12:00	19.54	R	-3.46	24.78	20.08.75
	Indupur	8.23	-	12:00	4.48	R	-3.75	-	-
Baitarani	Champua	376.41	375.33	12:00	372.14	F	-4.27	379.06	23.09.11
	Swampatna	311.1	-	12:00	306.97	F	-4.13	315.66	14.08.75
	Anandapur	38.36	37.44	12:00	34.51	F	-3.85	41.35	23.09.11
	Akhuapada	18.33	17.83	12:00	17.40	F	-0.93	21.95	16.08.60
Budhabalanga	Chandanpur	-	-	12:00	81.94	S	-	85.80	09.11.95
	Baripada	30.92	29.7	12:00	22.10	S	-8.82	34.82	13.10.13
	Balimundali	-	-	12:00	36.32	S	-	42.20	1995
	NH5-Govindapur	8.13	7.21	12:00	2.20	F	-5.93	9.67	12.10.73
Subarnarekha	Jamshedpur	123.5	122.5	12:00	117.80	S	-5.7	129.82	12.10.73
	Jamsolaghat	49.16	48.32	12:00	45.74	S	-3.42	56.91	03.09.78
	Rajghat	10.36	9.45	12:00	6.27	S	-4.09	12.69	19.06.08
Jalaka	Mathani Road Bridge	6.50	6.0	12:00	4.65	F	-1.85	7.31	22.09.21
Rushikulya	Sorada	81.99	80.99	12:00	77.88	F	-4.11	83.21	04.11.90
	Madhabarida	60.65	-	12:00	56.22	S	-4.43	61.44	18.10.99
	Purusottampur	16.84	15.84	12:00	12.88	F	-3.96	19.60	04.11.90
Vansadhara	Gudari	-	-	12:00	115.07	F	-	121.82	17.09.80
	Gunupur	84.0	83.0	12:00	81.57	S	-2.43	88.75	17.09.80
	Kashinagar	54.6	54.1	12:00	53.73	F	-0.87	58.93	18.09.80

Status of Major Reservoirs

Name of the Reservoir	Dead Storage Level	FRL/ MWL	Reservoir Level	LS Available/ Live Storage Capacity (%)	Last Year (2022) R.L/ Live Storage Avl (%)	Inflow	Total Outflow	Gates Open (Nos)/ Trend
1.Hirakud 12:00Hr	590.0 ft	630.0ft	628.95 ft	<u>4619.0 Mcum</u> 4822.83Mcum (95.8%)	<u>629.7 ft</u> 98.8%	3,79,977.0 Cusec	3,92,686.0 Cusec	22/98 Rising
2.Rengali 12:00Hr	109.72 m	<u>123.5 m</u> 125.4 m	120.23 m.	<u>235116.0Ham</u> 341371.0 Ham (68.9%)	<u>122.2 m</u> 87.7%	2633.69 Cumec	277.43 Cumec	0/27 Rising
3.U. Indravati 09:00Hr	625.0 m	<u>642 m</u> 643 m	636.90 m.	<u>92479.0 Ham</u> 148550.0 Ham (62.3%)	<u>640.3 m</u> 85.3%	257.82 Cumec	40.92 Cumec	0/12 Rising
4.UpperKolab 08:00Hr	844.0 m	858.0 m	855.4 m.	<u>687.0 Mcum</u> 935.0 Mcum (73.5%)	<u>854.3 m</u> 64.3%	141.71 Cumec	32.13 Cumec	0/11 Rising
5.Balimela 08:00Hr	1440.0 ft	<u>1516 ft</u> 1518 ft	1486.1 ft	<u>129745.0 Ham</u> 267600.0 Ham (48.5%)	<u>1477.3 ft</u> 36.5%	7361.0 Cusec	2418.24 Cusec	0/12 Rising
6.Machhkund (Jalaput) 08:00Hr	2685.0 ft	2750.0 ft	2731.3 ft	<u>47921.0 Ham</u> 89254.7 Ham (53.7%)	<u>2733.6 ft</u> 58.7%	4396.0 Cusec	10.0 Cusec	0/12 Rising
7.Salandi 06:00Hr	50.24 m	<u>82.3 m</u> 83.21m	79.55 m.	<u>47114.0 Ham</u> 55650.0 Ham (84.7%)	<u>77.7 m</u> 74.2%	18.63 Cumec	42.46 Cumec	02/11 Falling
8.LowerIndra 08:00Hr	251.0 m	<u>265 m</u> 265 m	264.0 m.	<u>29726.0 Ham</u> 31425.2Ham (94.6%)	<u>262.7 m</u> 77.4%	85.49 Cumec	58.67 Cumec	01/09 Rising

Note: Total Outflow consists of Irrigation, Spillway, Sluice, Power generation, Industrial & other supply and Evaporation loss *U Indravati-7 gates, Muran Dam-5 gates (Total-12 Nos)

Average Inflow into & Outflow from Reservoir

Reservoir	Inflow	Outflow	Observation Period
Hirakud	3,10,620.0 Cusec	3,45,561.0 Cusec	During last 24 Hrs ending 08:00Hrs of 23.09.2023
Rengali	1909.4 Cumec	487.4 Cumec	During last 24 Hrs ending 06:00Hrs of 23.09.2023

Travel Time of Flow in Mahanadi River

Hirakud Dam	115 km	Khairmal	106 km	Barmul	95 km	Mundali
	12-18 Hrs		12-16 Hrs		12-16 Hrs	

River Discharge

Name of the River	G&D Site	Time (Hrs)	Discharge (cusec)
Mahanadi (Up Stream Hirakud)	Champa	12:00	38,240
	Tarapur	12:00	32,500
	Saradihi	12:00	4,30,165
	Kalma	09:00	NR
	Deogaon	12:00	37,850
Mahanadi (Down Stream Hirakud)	Khairmal	12:00	5,69,000
	Barmul	12:00	3,62,500
	Mundali	12:00	2,70,100
Tel	Patharla	12:00	1,12,479
Baitarani	NH-5 Akhuapada	08:00	NR
Brahmani	Pankapal	08:00	35,303
Subarnarekha	Rajghat	09:00	30,532
Rushikulya	Purusottampur	09:00	6,696

Status of Medium Reservoir

Sl.	Name of Dam / Reservoir	Available Live Storage (%) (Gates Open)	Sl.	Name of Dam / Reservoir	Available Live Storage (%) (Gates Open)	Sl.	Name of Dam / Reservoir	Available Live Storage (%) (Gates Open)
1.	Badanalla	84.2%	17.	Harabhangi	41.5%	33.	Ret	88.2%
2.	Baghalati	49.4%	18.	Harihorjore	98.4%	34.	Rukura	92.4% (1)
3.	Baghua	73.9%	19.	Jambira*	6.4%	35.	Saipala	99.5% (1)
4.	Bankabahal	84.6%	20.	Jharbandh*	100.0%	36.	Salia*	100.0%
5.	Bhanjanagar	92.8%	21.	Kalo	87.4%	37.	Sapua*	100.0%
6.	Bhaskel*	49.7%	22.	Kanjhari	86.0%	38.	Saraphgarh	83.0%
7.	Budhabudhiani	87.5%	23.	Kansabahal	86.3%	39.	Satiguda*	100.0%
8.	Dadarghati*	91.5%	24.	Khadkhai	83.7%	40.	Soroda*	71.3%
9.	Daha	94.1%	25.	Kuanria	85.0%	41.	Sunder	88.4%
10.	Deo	82.9% (3)	26.	Mandira	50.5% (13)	42.	Sunei	87.7%
11.	Derjang	86.2%	27.	Manjore	82.4%	43.	Talsara	89.2% (1)
12.	Dhanei*	100.0%	28.	Nesa*	82.7%	44.	Telengiri	79.8% (1)
13.	Dumberbahal	100.0%	29.	Pilasalki*	100.0%	45.	Titlagarh	77.9%
14.	Ghodahada	35.3%	30.	Pitamahal*	100.0%	46.	Upper Jonk	79.3% (1)
15.	Gohira	95.9%	31.	Ramial	76.7% (1)	47.	Upper Suktel*	100.0%
16.	Haladia	16.8%	32.	Remal	82.5%			

Note: *Un-gated Dams (13 Nos.)

Above 75%
 Above 90%

Medium Reservoir: 47 Nos.

(Gated-32, Un-Gated-13),

Below 50%: 6 Nos., Between 50% to 75%: 3 Nos., Above 75%:38 Nos.

AVAILABLE LIVE STORAGE CAPACITY OF MAJOR & MEDIUM RESERVOIRS (23.09.2023)

No. of Gates Open/Total Gates:

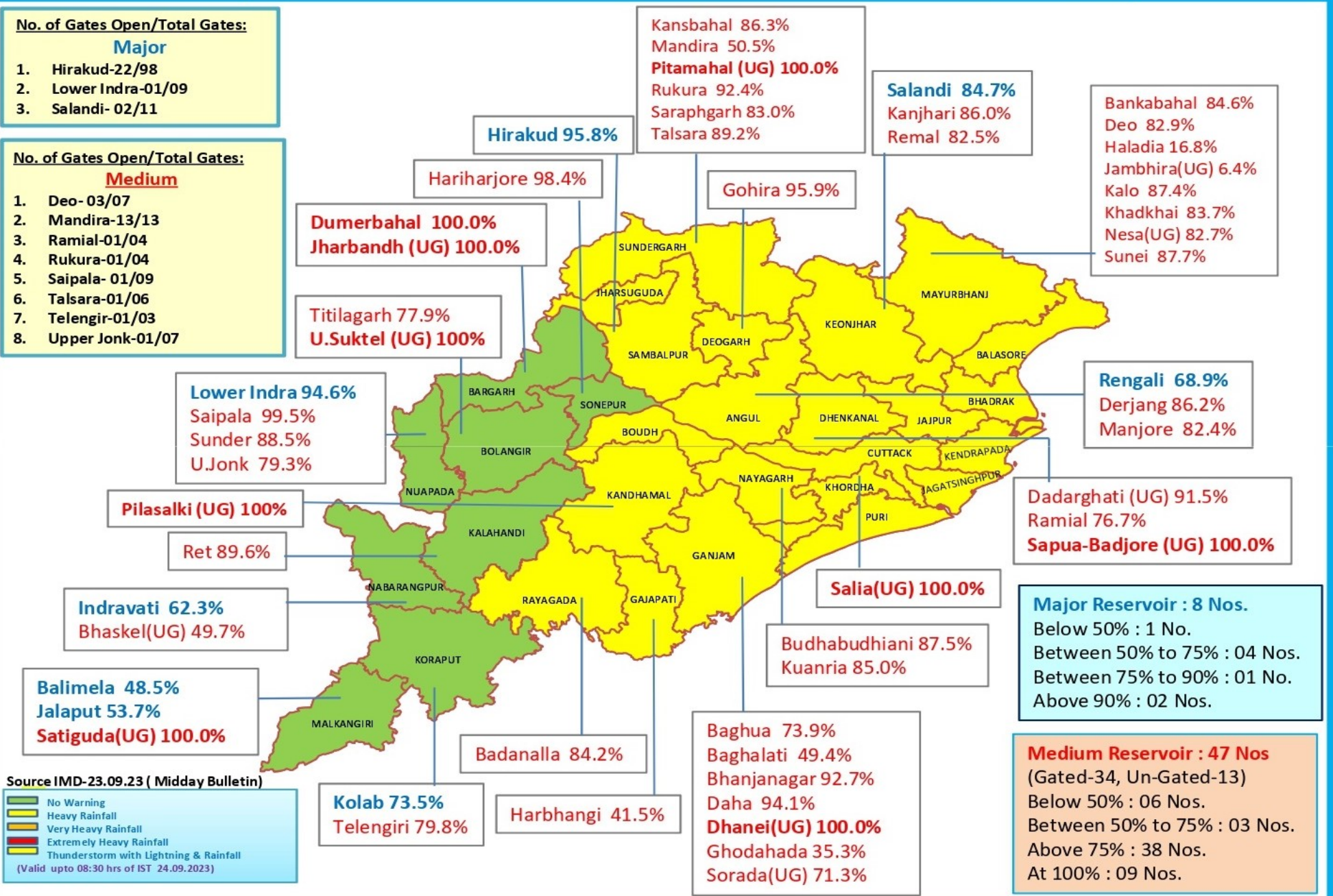
Major

1. Hirakud-22/98
2. Lower Indra-01/09
3. Salandi- 02/11

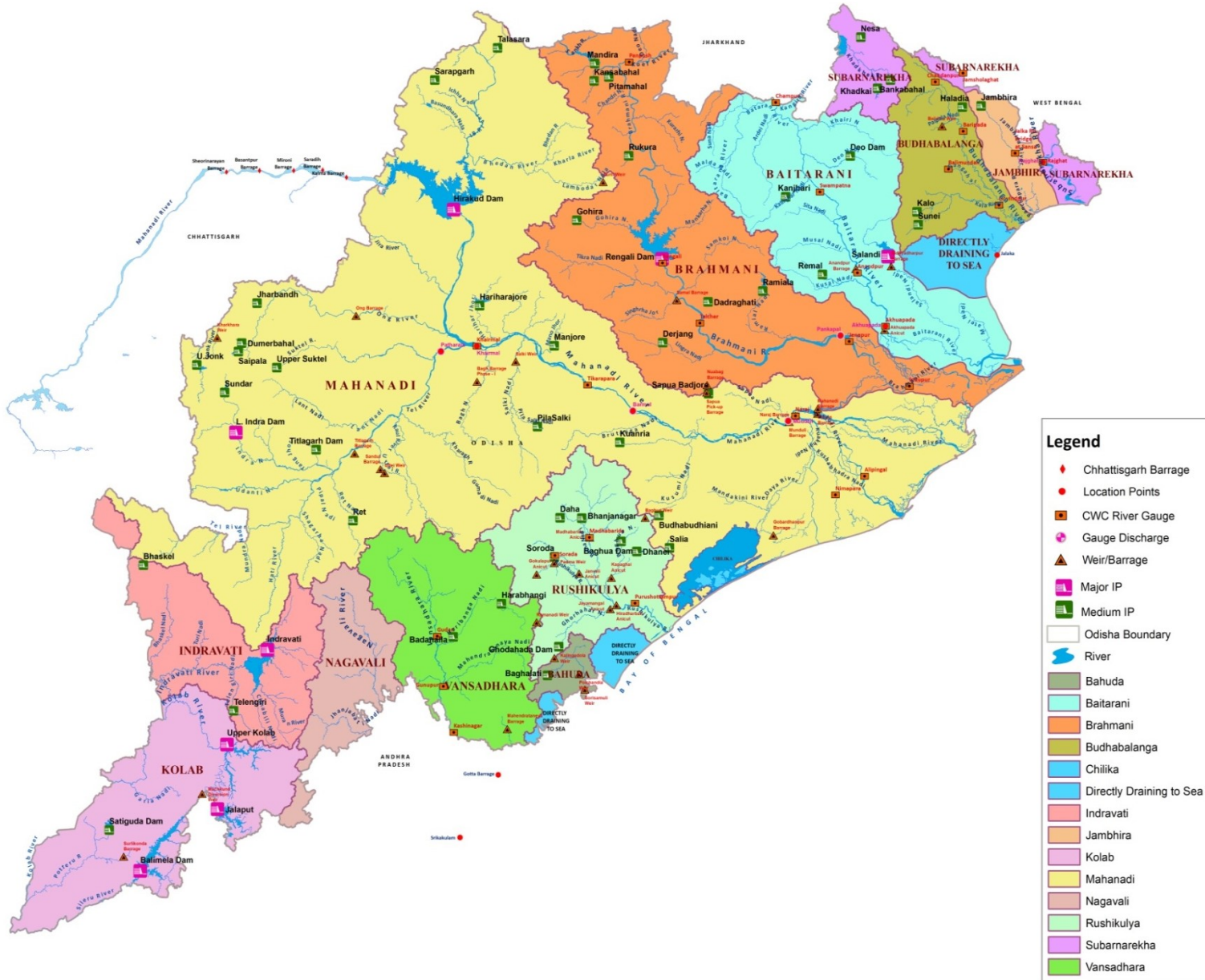
No. of Gates Open/Total Gates:

Medium

1. Deo- 03/07
2. Mandira-13/13
3. Ramial-01/04
4. Rukura-01/04
5. Saipala- 01/09
6. Talsara-01/06
7. Telengir-01/03
8. Upper Jonk-01/07



MAJOR & MEDIUM RESERVOIRS , G & D SITES IN ODISHA



Legend

- ◆ Chhattisgarh Barrage
- Location Points
- CWC River Gauge
- ◆ Gauge Discharge
- ▲ Weir/Barrage
- Major IP
- Medium IP
- ▭ Odisha Boundary
- ▬ River
- Bahuda
- Baitarani
- Brahmani
- Budhabalanga
- Chilika
- Directly Draining to Sea
- Indravati
- Jambhira
- Kolab
- Mahanadi
- Nagavali
- Rushikulya
- Subarnarekha
- Vansadhara

भारत सरकार
 भारत मौसम विज्ञान विभाग
 (पृथ्वी विज्ञान मंत्रालय)
 पता : मौसम विज्ञान केन्द्र, भुवनेश्वर
 फोन न. २५९६०१० &
 २५९६११६
 फैक्स न. २५९६०१० &
 २५९६०९३



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HYDROMET BULLETIN

1) **Synoptic Situation**

- A cyclonic circulation is likely to form over north Andaman sea & neighbourhood on 29th September. Under its influence a Low Pressure Area is likely to form over north Andaman sea & adjoining Eastcentral Bay of Bengal during subsequent 48 hours.
- The Monsoon Trough at mean sea level now passes through Jaisalmer, Kota, Guna, Satna, Purulia, Krishnanagar and thence eastwards to Manipur
- The cyclonic circulation over west Jharkhand & neighbourhood now lies over Southwest Bihar & neighbourhood extending upto 4.5 km above mean sea level.
- Conditions are becoming favourable for withdrawal of Southwest Monsoon from parts of West Rajasthan from around 25th September.

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

S. No.	Basin Name	Sub-basin Name	QPF (mm)						
			Day-1 (23.09.23)	Day-2 (24.09.23)	Day-3 (25.09.23)	Day-4 (26.09.23)	Day-5 (27.09.23)	Day-6 (28.09.23)	Day-7 (29.09.23)
1	BAITRANI	BT	11-25	11-25	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
2	LOWER BRAHMANI	LB	11-25	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
3	UPPER BRAHMANI	UB	26-37	11-25	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
4	BHURABALANG	BB	0.1-10	11-25	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
5	LOWER MAHANADI	LM	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
6	NAGAVALI	NV	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
7	RUSHIKULIYA	RK	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
8	SUBERNAREKHA	SR	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
9	UPPER MAHANADI	UM	11-25	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
10	VAMSDHARA	VD	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10

PF categories (mm)	0	0.1-10	11-25	26-37	38-50	51-75	76-100	>100
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2b) River Sub-basin-wise Intensity and Distribution of QPF

S. No	Basin Name	Sub-basin Name	Intensity (I) and Spatial Distribution (D)													
			Day-1 (23.09.23)		Day-2 (24.09.23)		Day-3 (25.09.23)		Day-4 (26.09.23)		Day-5 (27.09.23)		Day-6 (28.09.23)		Day-7 (29.09.23)	
			I	D	I	D	I	D	I	D	I	D	I	D	I	D
1	BAITRANI	BT	M	FWS	M	WS	L	SCT	L	SCT	L	SCT	L	SCT	L	SCT
2	LOWER BRAHMANI	LB	M	FWS	L	FWS	L	FWS	L	SCT	L	SCT	L	SCT	L	SCT
3	UPPER BRAHMANI	UB	M	WS	M	WS	L	FWS	L	SCT	L	SCT	L	SCT	L	SCT
4	BHURABALANG	BB	L	FWS	M	WS	L	SCT	L	SCT	L	SCT	L	SCT	L	SCT
5	LOWER MAHANADI	LM	L	FWS	L	FWS	L	SCT	L	SCT	L	SCT	L	SCT	L	SCT
6	NAGAVALI	NV	L	FWS	L	FWS	L	SCT	L	FWS	L	SCT	L	SCT	L	SCT
7	RUSHIKULYA	RK	L	FWS	L	FWS	L	FWS	L	FWS	L	SCT	L	SCT	L	SCT
8	SUBERNAREKHA	SR	L	FWS	L	WS	L	SCT	L	SCT	L	SCT	L	SCT	L	SCT
9	UPPER MAHANADI	UM	M	FWS	L	FWS	L	SCT	L	SCT	L	SCT	L	SCT	L	SCT
10	VAMSDHARA	VD	L	FWS	L	FWS	L	FWS	L	FWS	L	SCT	L	SCT	L	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.			

3) River Sub-basin-wise Heavy Rainfall Warning

S. No	Basin Name	Sub-basin Name	Day-1 (23.09.23)		Day-2 (24.09.23)		Day-3 (25.09.23)		Day-4 (26.09.23)		Day-5 (27.09.23)		Day-6 (28.09.23)		Day-7 (29.09.23)	
			I	D	I	D	I	D	I	D	I	D	I	D	I	D
1	BAITRANI	BT	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
2	LOWER BRAHMANI	LB	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
3	UPPER BRAHMANI	UB	H	ISOL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4	BHURABALAN G	BB	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
5	LOWER MAHANADI	LM	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
6	NAGAVALI	NV	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
7	RUSHIKULIYA	RK	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
8	SUBERNAREK HA	SR	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
9	UPPER MAHANADI	UM	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
10	VAMSDHARA	VD	NIL	NIL	NIL	NIL	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
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Intensity					
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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 (23.09.2023) (QPF categories)					Day-2 (24.09.2023) (QPF categories)					Day-3 (25.09.2023) (QPF categories)					Day-4 (26.09.2023) (QPF categories)					Day-5 (27.09.2023) (QPF categories)					Day-6 (28.09.2023) (QPF categories)					Day-7 (29.09.2023) (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	0	0.1-10	11-25	26-50	51-100	>100
BAITRANI	B T																																				
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UPPER BRAHMANI	U B																																				
BHURABALANG	B B																																				
LOWER MAHANADI	L M																																				
NAGAVALI	N V																																				
RUSHIKULIYA	R K																																				
SUBERNAREKHA	S R																																				
UPPER MAHANADI	U M																																				
VAMSDHARA	V D																																				



5) Station-wise significant rainfall recorded at 0830 hrs IST of today

S. NO.	NAME OF SUB-BASIN	NAME OF STATION AND RAINFALL (≥55.0 MM.)
1	BAITRANI	KAPTIPADA(68)
2	UPPER MAHANADI	DEOBHOG(170.4),Kharsiya(135.4),PALI(125.4),SIMGA(120),Manora(115.9),CHAMPA(101.9),DURG(93.4),Bhatapara(87),Baloda(81.6),Pamgarh(72.1),KATGHORA(70.2),BALODA BAZAR(67.5),Nawagarh(65.5)Jaijaipur(65.3),KURUBHATTA(63.2)

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

S. No.	Basin Name	Sub-basin Name	AAP (mm)
1	BAITRANI	BT	5.6
2	LOWER BRAHMANI	LB	7.7
3	UPPER BRAHMANI	UB	12.8
4	BHURABALANG	BB	4.8
5	LOWER MAHANADI	LM	5.5
6	NAGAVALI	NV	2.9
7	RUSHIKULIYA	RK	2.2
8	SUBERNAREKHA	SR	5.4
9	UPPER MAHANADI	UM	21.2
10	VAMSDHARA	VD	2.0

(DUTY OFFICER)
for Scientist-F & Head
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SI No	Name of Stations	Rainfall (in mm)
UPPER MAHANADI		
1	AMBABHONA	7.2
2	ANDHIARKHOR	8.8
3	BAIKUNTHAPUR	6.8
4	BAMNIDIHI	25.8
5	BANGODAM	31.6
6	BARAGAON	4.4
7	BASANTAPUR	7.8
8	BORANDA	1.6
9	DEOGAON (IRRI)	15.0
10	DEOGAON (CWC)	2.8
11	DHARAMJAYGARH	36.8
12	GHATORA	37.6
13	HEMGIRI	14.4
14	JAMADARPALLI	20.6
15	JAMANKIRA	2.4
16	JHARSUGUDA (IMD)	7.6
17	KORBA	46.8
18	KUCHINDA	9.2
19	KURUBHATTA	63.2
20	KELO	39.4
21	MANENDRAGARH	8.6
22	MAHULPALI	0.0
23	NAWAPARA	4.0
24	LAIKERA	34.0
25	Gundardehi	14.9
26	Doundi	8.9
27	Gurur	5.8
28	DONDILOHARA	21.1
29	BALOD	4.8
30	PALLARI/PALARI	43.0
31	BALODA BAZAR	67.5
32	Kasdole	19.0
33	Bilalgarh	16.3
34	Bhatapara	87.0
35	Darbha	0.0
36	Saja	35.0
37	Berla	65.5
38	Nawagarh	15.7
39	Than Khamaria	42.5
40	BEMETARA	19.1
41	Masturi	30.2
42	Bilha	12.0
43	Kota	2.0
44	Takhatpur	5.0
45	BILASPUR	21.2
46	Kurud	7.4
47	Nagari	0.0
48	Magarlod	6.0
49	DHAMTARI	3.3
50	Patan	12.0
51	Dhamdha	93.4
52	DURG	170.4
53	DEOBHOG	0.0
54	GARIABUND	0.0
55	Chhura	1.2
56	Mainpur	25.1
57	Akaltara	72.1
58	Pamgarh	81.6
59	Baloda	65.3
60	Jaijaipur	13.6
61	Malkharoda	32.2
62	Dhabhara	18.5
63	SAKTI	43.3
64	JANJGIR	101.9
65	CHAMPA	115.9
66	Manora	38.3
67	Bagicha	40.2
68	Duldula	18.6
69	Kunkuri	31.5
70	Kansabel	39.6
71	Tapkara	10.3

SI No	Name of Stations	Rainfall (in mm)
UPPER MAHANADI		
72	PATHALGAON	23.6
73	JASHPURNAGAR	28.0
74	Bodla	1.0
75	Sahaspurlohara	14.0
76	Pandaria	0.0
77	KAWARDHA	15.0
78	Charama	0.0
79	Nerharpur	0.0
80	Poudi Uparora	28.8
81	Kartala	125.4
82	PALI	23.2
83	KATGHORA	70.2
84	Sonhat	21.8
85	Khadgava	19.7
86	Pithora	17.6
87	Bagbahara	2.5
88	Basana	2.1
89	MAHASAMUND	14.0
90	SARAIPALI	1.4
91	Patharia	0.0
92	Lormi	1.5
93	MUNGELI	0.0
94	Kharsiya	135.4
95	Lailunga	6.5
96	Pusaur	10.2
97	Baramkela	0.0
98	Tamnar	11.0
99	SARANGARH	20.4
100	RAIGARH	29.1
101	GHARGHODA	26.7
102	MANA-RAIPUR-AP	5.6
103	ARANG	7.7
104	Tilda	42.6
105	Abhanpur	1.7
106	Chhui khadan	16.7
107	Khairagarh	32.2
108	Chhuria	46.7
109	RAJNANDGAON	26.5
110	DONGARGARH	36.0
111	DONGARGAON	45.4
112	GANDAI	8.3
113	AMBAGARH CHOWKI	31.7
114	Premnagar	5.2
115	Ramanujnagar	7.1
116	Batoli	13.0
117	Sitapur	13.7
118	Lundra	16.0
119	KOLABIRA	6.4
120	PARMANPUR	11.0
121	PENDRA RD (CWC)	9.2
122	RAIPUR(IMD)	6.2
123	RAIPUR (CWC)	18.8
124	RAJIM	3.2
125	RAMPUR	23.4
126	SANKARA	25.2
127	SEORINARAYAN	19.0
128	SIMGA	120.0
129	SUNDERGARH (IMD)	10.4
130	SUND-RH (CWC)	12.8
131	SURAJGARH	5.2
132	THETTANG	42.0
133	GOPALPUR	31.2
134	ZONDRA	39.8
135	BALISANKRA	6.4
136	BAMRA	42.4
137	LEPHRIPARA	40.1
138	KUTRA	12.6
139	TANGARPALI	24.4
140	KIRMIRA	30.0
141	LAKHANPUR	5.0

SI No	Name of Stations	Rainfall (in mm)
LOWER MAHANADI		
1	SATYABADI	0.0
2	DERABIS	0.0
3	JHARBANDH	5.0
4	GAISILETE	15.0
5	PHIRINGIA	0.0
6	ALIPINGAL	0.0
7	ARMPUR	0.0
8	ATHAGARH	8.0
9	ATHAMALIK	0.0
10	BALIGUDA	0.0
11	BANPUR	0.0
12	BARGARH	7.2
13	BARMUL	18.4
14	BELGAON	5.6
15	BHAWANIPATNA(IMD)	0.0
16	BHUBANESWAR (IMD)	TRACE
17	BIJEPUR	16.0
18	BINIKA	0.0
19	BOLANGIR (IMD)	0.0
20	BOUDA GARH	0.0
21	BURLA (CWC)	11.6
22	BURLA (IRRI)	16.0
23	CUTTACK (IMD)	0.0
24	CHILIKA	0.0
25	DASHPALLA	6.0
26	DUNGURIPALI	7.0
27	GOP	3.0
28	HARABHANGA	1.0
29	HIRAKUD (IMD)	17.6
30	JAIPATNA	0.0
31	JUNAGARH	0.0
32	KAKATPUR	0.0
33	KALINGA	0.0
34	KANAS	0.0
35	KANTAMAL (BDO)	0.0
36	KANTAMAL (CWC)	0.0
37	KENDRAPARA	0.0
38	KENDRAPARA (PTO)	0.0
39	KESINGA	0.0
40	KHANDAPADA* (BDO)	0.0
41	KHANDAPADA (CWC)	0.0
42	KHARIAR	2.0
43	KHAIRMAL (IRR)	0.0
44	KHAIRMAL (CWC)	0.0
45	KOMNA	0.0
46	M. RAMPUR	0.0
47	MUNDALI	0.0
48	NARAJ	0.0
49	NARASINGHPUR	6.0
50	NAYAGARH	0.0
51	NIMAPARA	0.6
52	PADAMPUR	0.0
53	PADMABATI	0.0
54	PAIKAMAL	7.0
55	PARADEEP (IMD)	0.2
56	G.UDAYGIRI	8.6
57	PATNA GARH	0.0
58	PATAMUNDAI	0.0
59	PHULBANI (IMD)	0.0
60	PHULBANI (CWC)	0.0
61	PIPLI	0.0
62	PURI (IMD)	12.0
63	RAIRAKHOL	5.0
64	R.K NAGAR	0.0
65	RANPUR	0.0
66	SALBHATTA	2.0
67	SAMBALPUR (IMD)	0.9
68	SOHELA	18.0
69	SONEPUR	1.0
70	TANGI	0.0
71	TIKABALI	3.0

SI No	Name of Stations	Rainfall (in mm)
LOWER MAHANADI		
72	TIKARAPARA	2.0
73	TITLA GARH (IMD)	7.1
74	KOKSARA	0.0
75	TUREIKELA	0.0
76	KALAMPUR	2.0
77	SINAPALI	3.4
78	BODEN	0.0
79	LOISINGHA	0.0
80	TIRTOL	0.0
81	SAINTALA	5.0
82	NARLA	0.0
83	AGALPUR	0.0
84	RAIKIA	12.4
85	B.M.PUR	1.4
86	BARPALI	20.0
87	ATTABIRA	4.6
88	BHATALI	15.3
89	TH. RAMPUR	0.0
90	GUDVELA	0.0
91	DEOGAON	7.0
92	BANGAMUNDA	4.0
93	BIRIDI	0.0
94	NAUGAON	0.0
95	GOLAMUNDA	4.2
96	CHAKAPAD	10.2
97	KHAJURIPADA	0.0
98	MOHAKALAPADA	3.0
99	JATNI	0.0
100	BEGUNIA	0.0
101	BHAPUR	0.0
102	DHANKAUDA	1.3
103	JAGATSingHPUR(PTO)	2.4
104	KHORDHA(PTO)	0.0
105	CHANDAHANDI	1.2
106	JHORIGAM	0.0
107	DHARMAGARH	0.0
108	BELPADA	0.0
109	KHAPRAKHOL	0.0
110	TARVA	6.4
111	K NUAGAON	0.0
112	JUJUMURA	5.2
113	ULLUNDA	0.0
114	KARLAMUNDA	0.0
115	BOLAGARH	0.0
116	GANIA	9.0
117	BANKI	1.0
118	TIGIRIA	5.0
119	ASTARANGA	0.0
120	BRAHMAGIRI	0.0
121	KRISHNAPRASAD	0.0
122	KANTAPADA	0.0
123	MAHANGA	0.0
124	NIALI	0.0
125	NISCHINTAKOILI	0.0
126	SALEPUR	0.0
127	BALIKUDA	0.0
128	RAGHUNATHPUR	0.0
129	GARADAPUR	0.0
130	MARSAGHAI	0.0
131	BALIPATNA	0.0
132	KUJANGA	0.0
133	NUAUGAON	17.0
134	ODAGAON	0.0
135	BASANA	2.1
136	DEOBHOG	0.0

RAINFALL FOR PAST 24 HRS ENDING AT 0830 HRS OF DATE

Date:-23.09.2023

SI No	Name of Stations	Rainfall (in mm)
UPPER BRAHMANI		
1	MANORA	38.3
2	LAHUNIPARA	11.0
3	PALLAHARA	0.0
4	PANPOSH	0.0
5	RAJGANGA PUR	24.8
6	BARKOTE	0.0
7	BONAI	2.0
8	DEOGARH	0.0
9	MANDIRADAM	7.0
10	TENSA	0.2
11	LATHIKATA	4.2
12	JODA	3.2
13	GURUNDIA	6.0
14	PALKOT	2.4
15	RAIDIH	7.0
16	KURU	50.8
17	LOHARDAGA	26.4
18	MANDAR	0.0
19	KOLEBIRA	10.4
20	KURDEG	0.0
21	SIMDEGA	36.2
22	JASHPURNAGAR	28.0
23	RAURKELA(Airport)	2.0
LOWER BRAHMANI		
1	REAMAL	0.0
2	RENGALI	0.0
3	ALTUMA	8.6
4	ANGUL (IMD)	21.0
5	BATAGAON	0.0
6	CHHENDIPADA	0.0
7	DHENKANAL	0.0
8	DHENKANAL (PTO)	0.0
9	HINDOL	29.0
10	JENAPUR	7.2
11	KAMAKHYA NGR	0.0
12	NAKTIDEUL	0.0
13	SUKINDA	4.2
14	TALCHER	20.0
15	TELKOI	0.0
16	KANKADAHAD	47.4
17	JAJPUR	0.0
18	JAJPUR (PTO)	0.0
19	RAJ KANIKA	0.0
20	AUL	0.0
21	RAJNAGAR	9.0
22	BANARPAL	44.6
23	KANIHA	1.5
24	PARJANG	28.0
25	GONDIA	28.4
26	BHUBAN	4.0
27	DANAGADI	13.0
28	KOREI	2.0
29	CHANDIKHOL	0.0
30	BARII	0.0
31	BINJHARPUR	0.0

SI No	Name of Stations	Rainfall (in mm)
BAITARANI		
1	BONTH	2.0
2	AKHUAPADA	0.0
3	ANANDAPUR	13.8
4	CHAMPUA	0.0
5	CHANDBALI (IMD)	0.2
6	DAITARI	14.8
7	GHATGAON	7.4
8	JHUMPURA	0.0
9	JOSHIPUR	0.0
10	KARANJIA	0.0
11	KEON-GARH (IMD)	0.5
12	KEONJHAR (CWC)	0.0
13	SWAMPATNA	7.2
14	THAKUR-DA(BDO)	15.0
15	THAKUR-DA (CWC)	21.4
16	SAHARPADA	0.0
17	KAPTIPADA	68.0
18	HATADIHI	1.0
19	BHADRAK	0.0
20	BHANDARIPOKHARI	0.0
21	BANSPAL	0.0
22	GHASIPURA	13.4
23	SUKRULI	0.0
24	RARUANA	0.0
25	DHAMNAGAR	0.0
26	TIHIDI	0.0
27	HARICHANDANPUR	4.0
NAGAVALI		
1	K.SINGHPUR	0.0
2	RAYAGADA	0.0
3	SANKIL RD BRIDGE	NR
4	JANJHAVATI RDB	NR
5	JAGGAGUDA	NR
6	SRIKAKULAM	0.0
7	BANDHUGAN	0.0
8	SALUR	0.0
9	KOLNARA	0.0
10	Komarada	18.4
11	Jiyyammavalasa	0.0
12	Garugubilli	0.0
13	Parvathipuram	12.6
14	Bobbili	0.0
15	Therlam	0.0
16	Pusapatirega	0.0
17	Denkada	0.0
18	Vizianagaram	0.0
19	Vepada	0.0

SI No	Name of Stations	Rainfall (in mm)
RUSHIKULYA		
1	BUGUDA	0.0
2	ASKA	0.0
3	BERHAMPUR	0.0
4	BHANJANAGAR	0.0
5	CHHATRAPUR	0.0
6	DARINGIBADI	4.0
7	GOPALPUR (IMD)	0.0
8	MADHABARIDA	0.0
9	PUSOTTAMPUR	0.0
10	DIGAPAHANDI	0.0
11	JAGANNATHPRASAD	0.0
12	SORADA	0.0
13	POLASARA	0.0
14	KODALA	0.0
15	RANGEILUNDA	0.0
16	KUKUDAHANDI	0.0
17	PATRAPUR	0.0
18	SANKHEIMUNDI	0.0
19	DHARAKOTE	0.0
20	SHERAGADA	0.0
21	GANJAM	0.0
22	BELAGUNTHA	0.0
23	HINJILI	0.0
VANSADHARA		
1	AMBADOLA	NR
2	BISSAM CUTTACK	0.0
3	GOTTA BARRAGE	0.0
4	GUDARI	0.0
5	GUNUPUR	2.2
6	KALINGA-NAM (IMD)	0.0
7	KASHINAGAR	0.0
8	KOTAGARH	0.0
9	KOTRAGUDA	0.0
10	MAHENDRAGARH	0.0
11	MOHANA	0.0
12	PARAKHEMUNDI	0.0
13	R.GUDA	0.0
14	NUAGADA	0.0
15	MUNIGUDA	0.0
16	R.UDAYAGIRI	0.0
17	LANJIGARH	0.0
18	NELIAPUTY	NR
19	SIRJHOLY	NR
20	GUMMA	0.0
21	GOSANI	0.0
22	CHADRAPUR	1.7
23	Balajipeta	0.0

SI No	Name of Stations	Rainfall (in mm)
SUBERNAREKHA		
1	SARASAKANA	11.0
2	BHOGARAI	0.0
3	FEKOGHAT	0.0
4	GHATSILA	1.6
5	JALESWAR	0.0
6	JAMSEDPUR (IMD)	10.6
7	JAMSEDPUR (CWC)	19.0
8	JAMSOLAGHAT	0.4
9	RAIRANG PUR	0.0
10	RAJGHAT	0.0
11	RANCHI	10.5
12	TIRING	2.4
13	BIJATALA	0.0
14	KUSUMI	0.0
15	JAMDA	0.0
16	ARKI	2.8
17	ICAR NAMKUM	6.0
18	ORMANJHI	4.6
19	CHANDIL	1.2
20	KHARSEMA	1.2
21	NIMDIH	0.0
22	CHAIBASA	18.1
23	CHAKRADHARPUR	1.4
24	BAHALDA	0.0
BUDHABALANGA		
1	BALASORE (IMD)	0.0
2	BALASORE (CWC)	0.0
3	BALIMUNDALI	9.6
4	BANGRIPOSHI	0.0
5	BARIPADA (IMD)	2.0
6	BARIPADA (CWC)	0.0
7	CHANDANPUR	3.4
8	JAIPUR	0.0
9	NAWANA	0.0
10	NH-5, GOVINDPUR	0.0
11	NILGIRI	0.0
12	SORO	0.0
13	BETANATI	1.3
14	UDALA	52.0
15	BAHANAGA	0.0
16	KHAIRA	0.0
17	MURUDA	0.0
18	SULIAPADA	0.0
19	G.B.NAGAR	16.0
20	REMUNA	0.0
21	SAMAKHUNTA	0.0
22	BASUDEVPUR	0.0
23	CHANDUA(KULIANA)	0.0
24	RASAGOVINDAPUR	0.0
25	OUPADA	0.0

Source:-Met Centre Bhubaneswar

BLOCKWISE RAINFALL FOR PAST 24 HRS ENDING AT 0830 HRS OF DATE

Date:23.09.2023

SI No	Name of Stations	Rainfall (in mm)	SI No	Name of Stations	Rainfall (in mm)	SI No	Name of Stations	Rainfall (in mm)	SI No	Name of Stations	Rainfall (in mm)	SI No	Name of Stations	Rainfall (in mm)
1. ANGUL			8. DEOGARH			4 Madanpur Rampur 0.0			21. MALKANGIRI			27. RAYAGADA		
1	Angul	21.0	1	Barkote	0.0	5	Narla	0.0	1	Malkangiri	2.6	1	Rayagada	0.0
2	Banarpal	44.6	2	Deogarh	0.0	6	Lanjigarh	0.0	2	Mathili	5.0	2	Kolnara	0.0
3	Chhendipada	0.0	3	Reamal	0.0	7	Thuamul Rampur	0.0	3	Khoirput	0.0	3	Kalyansingpur	0.0
4	Talcher	20.0	Avg 0.0			8	Dharmagarh	0.0	4	Chitrakonda (K.Gumma)	0.0	4	Kashipur	0.0
5	Kaniha	1.5	9. DHENKANAL			9	Korukonda	0.0	5	Korukonda	0.0	5	Gonupur	0.0
6	Athamalik	0.0	1	Dhenkanal	0.0	10	Kalampur	2.0	6	Kalimela	0.0	6	Padmapur	0.0
7	Kishorenagar	0.0	2	Gondia	28.4	11	Jayapatna	0.0	7	Podia	0.0	7	Gudari	0.0
8	Pallahara	0.0	3	Odapada	0.0	12	Kokasara	0.0	Avg 1.1			8	Ramanagada	0.0
Avg 10.9			4	Hindol	29.0	13	Golamunda	4.2	22. MAYURBHANJ			9	Bissam Cuttack	0.0
2. BALASORE			5	Kamakhyanager	0.0	Avg 0.5			1	Samakhunta	0.0	10	Muniguda	0.0
1	Bhograi	0.0	6	Bhuban	4.0	16. KANDHAMAL			2	Badasahi	2.0	11	Chandrapur	1.7
2	Basta	0.0	7	Parjang	28.0	1	Baliguda	0.0	3	Betanati	1.3	Avg 0.2		
3	Jaleswar	0.0	8	Kankadahad	47.4	2	Chakapad	10.2	4	Morda	0.0	28. SAMBALPUR		
4	Baliapal	0.0	Avg 17.1			3	Daringibadi	4.0	5	Rasgovindapur	0.0	1	Jjumura	5.2
5	Balasure	0.0	10. GAJAPATI			4	G.Udayagiri	8.6	6	Kuliana	0.0	2	Dhankauda	1.3
6	Remuna	0.0	1	Kasinagar	0.0	5	Khajuripada	0.0	7	Sarasakana	11.0	3	Rengali	19.4
7	Nilagiri	0.0	2	Paralakhemundi	0.0	6	Kotagarh	0.0	8	Suliapada	0.0	4	Maneswar	2.8
8	Soro	0.0	3	Rayagada	0.0	7	Nuagaon	0.0	9	Bangriposi	0.0	5	Kuchinda	9.2
9	Bahanaga	0.0	4	Gumma	0.0	8	Phiringia	0.0	10	Baripada	6.0	6	Jamankira	2.4
10	Simulia	2.0	5	Nuagada	0.0	9	Phulbani	0.0	11	Khunta	15.0	7	Bamra	42.4
11	Khaira	0.0	6	R.Udaygiri	0.0	10	Raika	12.4	12	Gopabandhunagar	16.0	8	Rairakhol	5.0
12	Oupada	0.0	7	Mohana	0.0	11	Tikabali	3.0	13	Udala	52.0	9	Naktideul	0.0
Avg 0.2			8	Gosani	0.0	12	Tunudibandh	0.0	14	Kaptipada	68.0	Avg 9.7		
3. BARGARH			Avg 0.0			Avg 3.2			15	Besoi	3.0	29. SUBARNAPUR		
1	Ambabhona	7.2	11. GANJAM			17. KENDRAPARA			16	Bijatata	0.0	1	Sonepur	0.0
2	Attabira	4.6	1	Chhatrapur	0.0	1	Kendrapara	0.0	17	Rairangapur	0.0	2	Binika	0.0
3	Bargarh	6.4	2	Ganjam	0.0	2	Derabis	0.0	18	Kusumi	0.0	3	Tarbha	6.4
4	Barpali	20.0	3	Purusottampur	0.0	3	Marshaghai	0.0	19	Jamda	0.0	4	Dunguripali	7.0
5	Bhatli	15.3	4	Kabisuryanagar	0.0	4	Mohakalpara	3.0	20	Bahalda	0.0	5	Birmaharajpur	1.4
6	Bhedden	4.0	5	Polasara	0.0	5	Goradapur	0.0	21	Tiring	2.4	6	Ullunda	0.0
7	Bijepur	16.0	6	Kodala	0.0	6	Pattamundai	0.0	22	Joshipur	0.0	Avg 2.5		
8	Gaisilet	15.0	7	Khalikot	0.0	7	Aul	0.0	23	Karanja	0.0	30. SUNDARGARH		
9	Jharbandh	5.0	8	Hinjilicut	0.0	8	Rajnagar	9.0	24	Thakurmunda	15.0	1	Hemgir	14.4
10	Padampur	0.0	9	Rangeilunda	0.0	9	Rajkanika	0.0	25	Sukuruli	0.0	2	Lephripura	40.1
11	Paikmal	7.0	10	Kukudakhandi	0.0	Avg 1.33			26	Raruana	0.0	3	Tangarpali	24.4
12	Sohela	18.0	11	Chikiti	0.0	18. KEONJHAR			Avg 7.4			4	Sundargarh	10.4
Avg 9.9			12	Patrapur	0.0	1	Keonjhar	0.0	23. NAWARANGHPUR			5	Subdega	6.0
4. BHADRAK			13	Sanakhemundi	0.0	2	Banspal	0.0	1	Nawarangpur	0.0	6	Balisankara	6.4
1	Bhadrak	0.0	14	Digapahandi	0.0	3	Telkoi	0.0	2	Nandahandi	0.0	7	Bargaon	4.4
2	Bhandaripokhari	0.0	15	Bhanjanagar	0.0	4	Patna	7.2	3	Tentulikhunti	0.0	8	Kutra	12.6
3	Basudevpur	0.0	16	Belaguntha	0.0	5	Saharpada	0.0	4	Papadahandi	0.0	9	Rajgangpur	24.8
4	Bonth	2.0	17	Jagannathprasad	0.0	6	Ghatgaon	7.4	5	Kosagumuda	0.0	10	Kuarmunda	2.4
5	Chandbali	1.0	18	Buguda	0.0	7	Harichandanpur	4.0	6	Dabugaon	5.2	11	Nuagaon	17.0
6	Dhamnagar	0.0	19	Aska	0.0	8	Anandapur	8.2	7	Umerkote	0.0	12	Bisra	25.3
7	Tihidi	0.0	20	Dharakote	0.0	9	Ghasipura	13.4	8	Raighar	5.0	13	Lathikata	4.2
Avg 0.4			21	Sheragada	0.0	10	Hatadihi	1.0	9	Jharigaon	0.0	14	Bonai	2.0
5. BALANGIR			22	Sorada	0.0	11	Champua	0.0	10	Chandahandi	1.2	15	Lahunipara	11.0
1	Balangir	0.0	Avg 0.0			12	Joda	3.2	Avg 1.1			16	Gurundia	6.0
2	Puintala	0.0	12. JAGAT SinghPUR			13	Jhumpura	0.0	24. NAYAGARH			17	Koira	0.4
3	Gudvella	0.0	1	Jagatsinghpur	0.0	Avg 3.4			1	Bhapur	0.0	Avg 12.5		
4	Duduka	0.0	2	Birdi	0.0	19. KHORDHA			2	Daspalla	6.0			
5	Deogaon	7.0	3	Raghunathpur	0.0	1	Balianta	0.0	3	Gania	9.0			
6	Loisingha	0.0	4	Balikuda	0.0	2	Balipatna	0.0	4	Khandapara	0.0			
7	Patnagarh	0.0	5	Naugaon	0.0	3	Bhubaneswar	0.0	5	Nayagarh	0.0			
8	Belpada	0.0	6	Tirtol	0.0	4	Jatani	0.0	6	Nuagaon	0.0			
9	Khaprakhol	0.0	7	Kujanga	0.0	5	Banapur	0.0	7	Odagaon	0.0			
10	Titilagarh	7.1	8	Erasama	8.0	6	Begunia	0.0	8	Ranpur	0.0			
11	Tureikela	0.0	Avg 1.0			7	Bolagarh	0.0	Avg 1.9					
12	Bangomunda	4.0	13. JAJPUR			8	Chilika	0.0	25. NUAPADA					
13	Muribahal	1.0	1	Jajpur	0.0	9	Khordha	0.0	1	Boden	0.0			
14	Saintala	5.0	2	Binjharpur	0.0	10	Tangi	0.0	2	Khariar	2.0			
Avg 1.7			3	Dasarathpur	0.0	Avg 0.0			3	Komna	0.0			
6. BOUDH			4	Korei	2.0	20. KORAPUT			4	Nuapada	0.0			
1	Boudh	0.0	5	Danagadi	13.0	1	Koraput	0.0	5	Sinapali	3.4			
2	Kantamal	0.0	6	Sukinda	4.2	2	Lamataput	0.0	Avg 1.1					
3	Harabhanga	1.0	7	Rasulpur	0.0	3	Pottangi	0.0	26. PURI					
Avg 0.3			8	Dharmasala	0.0	4	Bandhugaon	0.0	1	Astarang	0.0			
7. CUTTACK			9	Badachana	0.0	5	Nandapur	0.0	2	Brahmagiri	0.0			
1	Athagarh	8.0	10	Bari	0.0	6	Dasmantpur	0.0	3	Delang	0.0			
2	Banki-Dampada	1.0	Avg 1.9			7	Narayanpatna	0.0	4	Gop	3.0			
3	Barang	0.0	14. JHARSUGUDA			8	Laxmipur	0.0	5	Kakatpur	0.0			
4	Badamba	0.0	1	Jharsuguda	23.0	9	Similiguda	0.0	6	Kanas	0.0			
5	Cuttack Sadar	0.0	2	Kolabira	6.4	10	Jeypore	0.0	7	Krushnaprasad	0.0			
6	Kantapada	0.0	3	Laikera	34.0	11	Kotpad	0.0	8	Nimapara	0.0			
7	Mahanga	0.0	4	Kirmira	30.0	12	Kundra	0.0	9	Pipili	0.0			
8	Niali	0.0	5	Lakhanpur	5.0	13	Borigumma	0.0	10	Puri	10.0			
9	Nischintakoili	0.0	Avg 19.7			14	Boipariguda	1.0	11	Satyabadi	0.0			
10	Narasinghpur	6.0	15. KALAHANDI			Avg 0.1			Avg 1.2					
11	Salepur	0.0	1	Bhabanipatna	0.0									
12	Tangi-Choudwar	0.0	2	Kesinga	0.0									
13	Tigiria	5.0	3	Karlamunda	0.0									
Avg 1.5														