

Experimental Flood Forecast

#	Name	Lat (°)	Long (°)	HFL (m)	Danger Level (m)	Warning Level (m)	Observed Water Level (m)**	Forecasted Water Level, (R.L. in m)								
								21 September, 2019					22 September, 2019		23 September, 2019	
								00:00	06:00	12:00	18:00	24:00	12:00	24:00	12:00	24:00
1	Barakhshetra	26.8780	87.1647	132.18	120.3	119.3		118.43	117.98	117.94	117.78	117.89	117.91	117.88	118.22	118.05
2	Chatra Bazar* (47 km u/s)	26.8304	87.1521	117	113.45	112.25		105.41	105.27	105.25	105.20	105.23	105.24	105.23	105.33	105.28
3	Rajabas* (27 km u/s)	26.7179	87.0967	95.7	94.7	93.7		92.29	92.25	92.19	92.17	92.16	92.19	92.16	92.23	92.22
4	Birpur (D/S)	26.5302	86.9308	76.01	74.70	73.70	09-21 09:00 75.10 ¹	74.98	74.87	74.83	74.77	74.75	74.72	74.74	74.72	74.71
5	Kosi Mahasetu*	26.2826	86.6524	61.1	58	57		56.26	56.24	56.16	56.04	55.95	55.77	55.72	55.73	55.70
6	Basua (64.25 km d/s)	26.1321	86.5247	49.17	47.75	46.75	09-21 12:00 47.76 ¹	48.21	48.11	47.85	47.84	48.28	47.81	48.29	47.78	48.26
7	Baluwaha Bridge*	25.879	86.4436	43.1	42	40		42.76	42.74	42.70	42.65	42.59	42.48	42.36	42.24	42.11
8	Dumri*	25.542	86.7237	36.40	33.85	32.85	09-21 08:00 35.40 ²	34.97	34.98	35.49	35.49	35.05	35.49	35.26	35.63	35.50
9	Baltara	25.503	86.7365	36.04	33.85	32.85	09-21 12:00 35.38 ¹	35.41	35.40	35.55	35.51	35.58	35.70	35.74	35.83	35.85
10	Vijay Ghat Bridge*	25.417	87.0580	33.5	31	30		31.76	31.84	31.92	31.97	32.01	32.07	32.10	32.01	31.95

Legend:

Normal Water Level	
Above Warning Level	
Above Danger Level	

Water Level forecast based on IMD Rainfall Forecast as on 21 September, 2019 13:59 IST.

*HFL, Warning Level and Danger Level are tentative.

**Source: 1. CWC-GOI, 2. WRD-GOB (Hydrology Directorate)

Software used HEC-HMS 4.2.1 and HEC-RAS 5.0.6

Disclaimer: Forecast is subject to uncertainty due to rainfall forecasts, model parameters, error in measurement and other unknown factors.

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								21 September, 2019					22 September, 2019		23 September, 2019	
								00:00	06:00	12:00	18:00	24:00	12:00	24:00	12:00	24:00
11	Kursela	25.423	57.2335	32.1	30	28.46	09-21 08:00 30.71 ¹	30.63	30.66	30.71	30.71	30.67	30.72	30.89	30.93	31.20
12	Dagmara* (On Khando)	26.409	86.7415	62.5	61.5	60.5		58.95	59.14	59.27	59.36	59.53	59.45	59.31	58.85	58.73
13	Laukaha*	26.546	86.478	80.8	79.8	78.8		77.90	78.01	78.01	77.98	77.98	77.89	77.89	77.88	77.88
14	Phulparas*	26.370	56.5214	61.8	60.8	59.8		58.60	58.59	58.69	58.87	58.86	58.74	58.57	58.56	58.56
15	Jainagar*	26.591	86.1458	71.35	69.3	68.5	09-21 08:00 67.60 ¹	67.62	67.62	67.62	67.66	67.68	67.62	67.62	67.62	67.62
16	Jhanjharpur	26.268	86.2703	53.01	50	49.25	09-21 08:00 49.92 ¹	50.54	50.57	50.30	50.23	50.46	50.26	50.45	50.29	50.45
17	Kothram*	25.918	26.3442	46.27	41.77	40.77	09-21 08:00 43.62 ²	43.64	43.64	43.32	43.32	43.52	43.24	43.45	43.23	43.41

Legend:

Normal Water Level	
Above Warning Level	
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Water Level forecast based on IMD Rainfall Forecast as on 21 September, 2019 13:59 IST.

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Experimental Flood Forecast

Discharge (m³/s)

#	Name	Lat (°)	Long (°)	Observed. Discharge (m ³ /s)*	21 September, 2019					22 September, 2019		23 September, 2019	
					00:00	06:00	12:00	18:00	24:00	12:00	24:00	12:00	24:00
1	Barakhshetra	26.8780	87.1647	09-21 12:00 2461.00 ¹	2,836.28	2,554.50	2,533.22	2,435.12	2,500.21	2,510.75	2,495.90	2,703.21	2,597.26
2	Chatra Bazar	26.8304	87.1521		2,837.05	2,569.14	2,534.14	2,440.28	2,496.73	2,514.44	2,492.08	2,700.57	2,600.15
3	Rajabas	26.7179	87.0967		2,855.23	2,744.52	2,561.70	2,505.40	2,465.75	2,559.62	2,456.42	2,669.22	2,642.16
4	Birpur (D/S)	26.5302	86.9308	09-21 12:00 3019.00 ¹	3,653.45	3,224.79	3,056.84	2,794.14	2,666.11	2,562.93	2,623.87	2,531.55	2,489.47
5	Kosi Mahasetu	26.2826	86.6524		4,256.39	4,170.11	3,807.65	3,383.37	3,136.49	2,700.08	2,579.23	2,607.09	2,544.20
6	Basua	26.1321	86.5247		4,562.87	4,306.25	4,154.95	3,805.91	3,406.13	2,911.91	2,628.93	2,569.38	2,588.20
7	Baluwaha Bridge	25.879	86.4436		5,621.42	5,506.19	5,332.99	5,116.30	4,896.32	4,443.14	3,975.64	3,571.21	3,236.02
8	Dumri	25.542	86.7237	09-21 08:00 5653.00 ²	5,835.99	6,011.26	6,108.00	6,145.72	6,119.25	5,912.08	5,623.37	5,245.17	4,842.56
9	Baltara	25.503	86.7365		5,792.72	5,980.39	6,090.31	6,139.86	6,122.64	5,927.91	5,646.41	5,279.67	4,874.40
10	Vijay Ghat Bridge	25.417	87.0580		5,630.69	5,963.61	6,303.87	6,555.91	6,696.11	6,929.06	6,961.40	6,590.88	6,229.11
11	Kursela	25.423	57.2335		4,991.45	5,593.60	6,063.48	6,400.75	6,624.08	6,972.88	7,109.61	6,802.37	6,478.05
12	Dagmara (On Khando)	26.409	86.7415		48.15	56.11	61.78	66.58	75.57	70.43	63.69	43.35	39.34

Discharge Forecast based on IMD Rainfall forecast as on 21 September, 2019 14:00 IST.

Forecasted discharge in cumec (m³/s).

*Source: 1. WRD-GOB (CE, Birpur) 2. WRD-GOB (Hydrology Directorate)

Software used HEC-HMS 4.2.1 & HEC-RAS 5.0.6

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14	Phulparas	26.370	56.5214		62.15	61.86	74.61	94.63	89.61	74.60	59.70	59.09	58.50
15	Jainagar	26.591	86.1458		40.00	40.00	40.00	50.47	55.24	40.03	40.00	40.00	40.00
16	Jhanjharpur	26.268	86.2703		160.20	160.08	160.06	160.06	160.09	170.25	164.58	160.17	160.05
17	Kothram	25.918	26.3442	09-21 08:00 354.00 ²	524.45	442.12	385.05	338.66	316.84	291.01	283.62	284.47	286.34

Discharge Forecast based on IMD Rainfall forecast as on 21 September, 2019 14:00 IST.

Forecasted discharge in cumec (m³/s).

*Source: 1. WRD-GOB (CE, Birpur) 2. WRD-GOB (Hydrology Directorate)

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