

## GAUGE FORECAST IN BAGMATI-ADHWARA RIVER BASIN

(Experimental Gauge forecast for 5 days based on 5 days rainfall forecast from IMD)

Date of Forecast : 09.08.2022  
Time of Model Run : 12:30 PMA FMISC, Bihar product  
based on Mike 11 Model

| Station / River              | District    | WL (m) | DL (m) | HFL (m) /Year | Observed WL (m) at (06:00 AM) | Forecast Gauge (m) |       |       |            |       |       |       |            |       |            |       |            |       |
|------------------------------|-------------|--------|--------|---------------|-------------------------------|--------------------|-------|-------|------------|-------|-------|-------|------------|-------|------------|-------|------------|-------|
|                              |             |        |        |               |                               | 09-08-2022         |       |       | 10-08-2022 |       |       |       | 11-08-2022 |       | 12-08-2022 |       | 13-08-2022 |       |
|                              |             |        |        |               |                               | 09-08-2022         | 15:00 | 18:00 | 24.00      | 6.00  | 12.00 | 18.00 | 24.00      | 12.00 | 24.00      | 12.00 | 24.00      | 12.00 |
| Dheng Bridge/ BAGMATI        | Sitamarhi   | 70.00  | 71.00  | 73.00/2019    | 69.88                         | 69.81              | 69.80 | 69.78 | 69.80      | 69.84 | 69.87 | 69.87 | 69.80      | 69.75 | 69.73      | 69.74 | 69.78      | 69.81 |
| Sonakhan/ BAGMATI **         | Sitamarhi   | 67.80  | 68.80  | 72.05/2019    | 68.10                         | 68.08              | 68.05 | 68.02 | 68.03      | 68.08 | 68.13 | 68.14 | 68.08      | 68.02 | 68.00      | 68.02 | 68.06      | 68.10 |
| Dubbadhar/ BAGMATI           | Sitamarhi   | 60.28  | 61.28  | 63.75         | 60.85                         | 60.83              | 60.82 | 60.79 | 60.76      | 60.73 | 60.72 | 60.74 | 60.80      | 60.78 | 60.73      | 60.69 | 60.69      | 60.72 |
| Chandauli/Kansar/ BAGMATI ** | Sitamarhi   | 58.06  | 59.06  | 60.86         | 57.13                         | 57.09              | 57.07 | 57.03 | 56.98      | 56.93 | 56.87 | 56.83 | 56.86      | 56.90 | 56.83      | 56.74 | 56.68      | 56.68 |
| Runisaidpur/BAGMATI          | Sitamarhi   | 54.00  | 55.00  | 58.15/2017    | 54.23                         | 54.19              | 54.19 | 54.16 | 54.12      | 54.07 | 54.01 | 53.96 | 53.92      | 53.98 | 53.96      | 53.88 | 53.79      | 53.77 |
| Saulighat/ DHAUS             | Madhubani   | 51.32  | 52.32  | 55.10         | 49.12                         | 48.97              | 48.92 | 48.81 | 48.70      | 48.60 | 48.50 | 48.40 | 48.22      | 48.04 | 47.88      | 47.75 | 47.63      | 47.52 |
| Kamtaul/ KHIROI_RIVER *      | Darbhangha  | 49.00  | 50.00  | 52.99/2004    | 48.16                         | 48.16              | 48.15 | 48.13 | 48.11      | 48.10 | 48.08 | 48.06 | 48.04      | 48.01 | 47.99      | 47.97 | 47.95      | 47.93 |
| Benibad/ BAGMATI *           | Muzaffarpur | 47.68  | 48.68  | 50.01/2004    | 48.68                         | 48.67              | 48.65 | 48.61 | 48.56      | 48.52 | 48.47 | 48.42 | 48.31      | 48.22 | 48.18      | 48.14 | 48.08      | 48.02 |
| Ekmathat/ DARBHANGA BAGMATI  | Darbhangha  | 45.94  | 46.94  | 49.52/2004    | 45.22                         | 45.12              | 45.09 | 45.04 | 44.98      | 44.91 | 44.82 | 44.74 | 44.56      | 44.39 | 44.23      | 44.09 | 43.96      | 43.86 |
| Hayaghat/ BAGMATI *          | Darbhangha  | 44.72  | 45.72  | 48.96/1987    | 43.98                         | 43.99              | 43.99 | 43.95 | 43.88      | 43.78 | 43.68 | 43.57 | 43.34      | 43.11 | 42.90      | 42.71 | 42.56      | 42.43 |

All Water Levels are in metres.


 Low Flood : Water level is at or above Warning Level but below Danger Level.

 Normal Flood Situation : Water level is touching or exceeding the Warning Level but below Danger Level.

 Severe Flood Situation: Water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL).

 Extreme Flood Situation : Water Level is at previous Highest Flood Level (HFL) or exceeded.

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

**Note :** Based on Global Forecast System (GFS) model rainfall forecast for 5 days received from IMD, temporal resolution 24 hr and spatial resolution 25 km by 25 km.

\* Water Level from CWC.

\*\* Water Level from WRD (Manual).

Rest Water Level from WRD - Real Time Data Acquisition System (RTDAS).