

## Phulwaria Dam

|                                      |                                  |
|--------------------------------------|----------------------------------|
| Location                             | 24.5961° N, 85.4928° E           |
| State                                | Bihar                            |
| Nearest City                         | Nawada                           |
| Year of Completion                   | 1988                             |
| Operated and Maintained by           | Bihar Water Resources Department |
| River Basin                          | Ganga                            |
| River                                | Tilaiya.                         |
| Dam Type                             | Earthfill Embankment             |
| Height above lowest foundation level | 33.0 m                           |
| Dam length                           | 1135.0 m                         |
| Reservoir Area                       | 9635600.0 m <sup>2</sup>         |
| Gross storage capacity               | 59340000.0 m <sup>3</sup>        |
| Effective storage capacity           | 50740000.0 m <sup>3</sup>        |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 201.0 km <sup>2</sup>       |
| Perimeter of catchment  | 71.8 km                     |
| Basin Length            | 19239.0 m                   |
| Form factor             | 0.54290                     |
| Circularity ratio       | 0.49015                     |
| Elongation ratio        | 0.83113                     |
| Highest Stream order    | 7                           |
| Max elevation           | 520.0 m                     |
| Min elevation           | 160.0 m                     |
| Mean bifurcation ratio  | 2.8233                      |
| Stream frequency        | 79.1310 per km <sup>2</sup> |
| Relief                  | 360.00 m                    |
| Drainage density        | 10.8130 km/km <sup>2</sup>  |
| Length of overland flow | 46.240 m                    |

## CATCHMENT CLIMATOLOGY

