

## Budhabudhiani Dam

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| Location                             | 19.9656° N, 85.0197° E            |
| State                                | Odisha                            |
| Nearest City                         | Nayagarh                          |
| Year of Completion                   | 1967                              |
| Operated and Maintained by           | Odisha Water Resources Department |
| River Basin                          | Mahanadi                          |
| River                                | Budhabudhiani                     |
| Dam Type                             | Earthfill Embankment              |
| Height above lowest foundation level | 24.4 m                            |
| Dam length                           | 1341.0 m                          |
| Reservoir Area                       | 2695000.0 m <sup>2</sup>          |
| Gross storage capacity               | 18640000.0 m <sup>3</sup>         |
| Effective storage capacity           | 16160000.0 m <sup>3</sup>         |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 66.3 km <sup>2</sup>        |
| Perimeter of catchment  | 39.9 km                     |
| Basin Length            | 10078.0 m                   |
| Form factor             | 0.65267                     |
| Circularity ratio       | 0.52400                     |
| Elongation ratio        | 0.91129                     |
| Highest Stream order    | 7                           |
| Max elevation           | 753.0 m                     |
| Min elevation           | 125.0 m                     |
| Mean bifurcation ratio  | 2.2933                      |
| Stream frequency        | 89.7480 per km <sup>2</sup> |
| Relief                  | 628.00 m                    |
| Drainage density        | 13.4870 km/km <sup>2</sup>  |
| Length of overland flow | 37.073 m                    |

## CATCHMENT CLIMATOLOGY

