

## Lower Palakmati Dam

|                                      |   |
|--------------------------------------|---|
| Location                             | 23.1714° N, 77.9119° E                    |
| State                                | Madhya Pradesh                            |
| Nearest City                         | Goharganj                                 |
| Year of Completion                   | 1936                                      |
| Operated and Maintained by           | Madhya Pradesh Water Resources Department |
| River Basin                          | Narmada                                   |
| River                                | Palakmati                                 |
| Dam Type                             | Earthfill Embankment                      |
| Height above lowest foundation level | 15.2 m                                    |
| Dam length                           | 990.0 m                                   |
| Reservoir Area                       | 2130000.0 m <sup>2</sup>                  |
| Gross storage capacity               | 13872000.0 m <sup>3</sup>                 |
| Effective storage capacity           | 12796000.0 m <sup>3</sup>                 |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 82.3 km <sup>2</sup>        |
| Perimeter of catchment  | 44.5 km                     |
| Basin Length            | 13235.0 m                   |
| Form factor             | 0.46957                     |
| Circularity ratio       | 0.52199                     |
| Elongation ratio        | 0.77296                     |
| Highest Stream order    | 7                           |
| Max elevation           | 589.0 m                     |
| Min elevation           | 367.0 m                     |
| Mean bifurcation ratio  | 2.3573                      |
| Stream frequency        | 79.7810 per km <sup>2</sup> |
| Relief                  | 222.00 m                    |
| Drainage density        | 11.1310 km/km <sup>2</sup>  |
| Length of overland flow | 44.921 m                    |

## CATCHMENT CLIMATOLOGY

