

## Simrar Dam

|                                      |   |
|--------------------------------------|---|
| Location                             | 23.7225° N, 80.4258° E                    |
| State                                | Madhya Pradesh                            |
| Nearest City                         | Murwara                                   |
| Year of Completion                   | 1964                                      |
| Operated and Maintained by           | Madhya Pradesh Water Resources Department |
| River Basin                          | Ganga                                     |
| River                                | Simrar                                    |
| Dam Type                             | Earthfill Embankment                      |
| Height above lowest foundation level | 25.6 m                                    |
| Dam length                           | 498.7 m                                   |
| Reservoir Area                       | 4590000.0 m <sup>2</sup>                  |
| Gross storage capacity               | 12930000.0 m <sup>3</sup>                 |
| Effective storage capacity           | 12360000.0 m <sup>3</sup>                 |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 66.0 km <sup>2</sup>        |
| Perimeter of catchment  | 37.7 km                     |
| Basin Length            | 11456.0 m                   |
| Form factor             | 0.50311                     |
| Circularity ratio       | 0.58398                     |
| Elongation ratio        | 0.80009                     |
| Highest Stream order    | 7                           |
| Max elevation           | 621.0 m                     |
| Min elevation           | 398.0 m                     |
| Mean bifurcation ratio  | 4.6945                      |
| Stream frequency        | 76.4340 per km <sup>2</sup> |
| Relief                  | 223.00 m                    |
| Drainage density        | 10.1530 km/km <sup>2</sup>  |
| Length of overland flow | 49.247 m                    |

## CATCHMENT CLIMATOLOGY

