

## Toda Dam

|                                      |  |
|--------------------------------------|--|
| Location                             | 21.6200° N, 71.8867° E                 |
| State                                | Gujarat                                |
| Nearest City                         | Sihor                                  |
| Year of Completion                   | 1986                                   |
| Operated and Maintained by           | Gujarat Engineering Research Institute |
| River Basin                          | Sabarmati                              |
| River                                | Local Nala                             |
| Dam Type                             | Earthfill Embankment                   |
| Height above lowest foundation level | 17.0 m                                 |
| Dam length                           | 940.0 m                                |
| Reservoir Area                       | 280335.0 m <sup>2</sup>                |
| Gross storage capacity               | 875000.0 m <sup>3</sup>                |
| Effective storage capacity           | 808000.0 m <sup>3</sup>                |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 7.0 km <sup>2</sup>         |
| Perimeter of catchment  | 13.5 km                     |
| Basin Length            | 4002.9 m                    |
| Form factor             | 0.43546                     |
| Circularity ratio       | 0.47977                     |
| Elongation ratio        | 0.74436                     |
| Highest Stream order    | 5                           |
| Max elevation           | 165.0 m                     |
| Min elevation           | 91.0 m                      |
| Mean bifurcation ratio  | 2.5744                      |
| Stream frequency        | 77.8200 per km <sup>2</sup> |
| Relief                  | 74.00 m                     |
| Drainage density        | 10.1620 km/km <sup>2</sup>  |
| Length of overland flow | 49.201 m                    |

## CATCHMENT CLIMATOLOGY

