

## Adhia Dam

|                                      |  |
|--------------------------------------|--|
| Location                             | 22.1744° N, 71.0644° E                 |
| State                                | Gujarat                                |
| Nearest City                         | Jasdan                                 |
| Year of Completion                   | 1902                                   |
| Operated and Maintained by           | Gujarat Engineering Research Institute |
| River Basin                          | Sabarmati                              |
| River                                | Beti                                   |
| Dam Type                             | Earthfill Embankment                   |
| Height above lowest foundation level | 15.0 m                                 |
| Dam length                           | 1829.0 m                               |
| Reservoir Area                       | 1094220.0 m <sup>2</sup>               |
| Gross storage capacity               | 2970000.0 m <sup>3</sup>               |
| Effective storage capacity           | 2040000.0 m <sup>3</sup>               |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 43.3 km <sup>2</sup>        |
| Perimeter of catchment  | 32.7 km                     |
| Basin Length            | 11599.0 m                   |
| Form factor             | 0.32214                     |
| Circularity ratio       | 0.50968                     |
| Elongation ratio        | 0.64023                     |
| Highest Stream order    | 6                           |
| Max elevation           | 302.0 m                     |
| Min elevation           | 211.0 m                     |
| Mean bifurcation ratio  | 2.2620                      |
| Stream frequency        | 76.2800 per km <sup>2</sup> |
| Relief                  | 91.00 m                     |
| Drainage density        | 10.3380 km/km <sup>2</sup>  |
| Length of overland flow | 48.366 m                    |

## CATCHMENT CLIMATOLOGY

