

## Kakadiamba Dam

|                                      |  |
|--------------------------------------|--|
| Location                             | 21.5178° N, 73.7317° E                 |
| State                                | Gujarat                                |
| Nearest City                         | Sagbara                                |
| Year of Completion                   | 1985                                   |
| Operated and Maintained by           | Gujarat Engineering Research Institute |
| River Basin                          | Tapi                                   |
| River                                | Waghti                                 |
| Dam Type                             | Earthfill Embankment                   |
| Height above lowest foundation level | 16.6 m                                 |
| Dam length                           | 1598.0 m                               |
| Reservoir Area                       | 1460000.0 m <sup>2</sup>               |
| Gross storage capacity               | 9370000.0 m <sup>3</sup>               |
| Effective storage capacity           | 8720000.0 m <sup>3</sup>               |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 26.4 km <sup>2</sup>        |
| Perimeter of catchment  | 23.8 km                     |
| Basin Length            | 7278.5 m                    |
| Form factor             | 0.49846                     |
| Circularity ratio       | 0.58478                     |
| Elongation ratio        | 0.79639                     |
| Highest Stream order    | 6                           |
| Max elevation           | 344.0 m                     |
| Min elevation           | 164.0 m                     |
| Mean bifurcation ratio  | 4.1734                      |
| Stream frequency        | 71.6870 per km <sup>2</sup> |
| Relief                  | 180.00 m                    |
| Drainage density        | 9.4070 km/km <sup>2</sup>   |
| Length of overland flow | 53.154 m                    |

## CATCHMENT CLIMATOLOGY

