

## Diwaniya Dunger Dam

|                                      |  |
|--------------------------------------|--|
| Location                             | 24.3914° N, 72.6564° E                 |
| State                                | Gujarat                                |
| Nearest City                         | Palanpur                               |
| Year of Completion                   | 1985                                   |
| Operated and Maintained by           | Gujarat Engineering Research Institute |
| River Basin                          | Sabarmati                              |
| River                                | T Of Banas                             |
| Dam Type                             | Earthfill Embankment                   |
| Height above lowest foundation level | 22.0 m                                 |
| Dam length                           | 525.0 m                                |
| Reservoir Area                       | 115330.0 m <sup>2</sup>                |
| Gross storage capacity               | 3250000.0 m <sup>3</sup>               |
| Effective storage capacity           | 3003000.0 m <sup>3</sup>               |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 24.1 km <sup>2</sup>        |
| Perimeter of catchment  | 21.1 km                     |
| Basin Length            | 8153.0 m                    |
| Form factor             | 0.36310                     |
| Circularity ratio       | 0.67925                     |
| Elongation ratio        | 0.67971                     |
| Highest Stream order    | 6                           |
| Max elevation           | 746.0 m                     |
| Min elevation           | 235.0 m                     |
| Mean bifurcation ratio  | 2.2465                      |
| Stream frequency        | 87.2970 per km <sup>2</sup> |
| Relief                  | 511.00 m                    |
| Drainage density        | 12.4200 km/km <sup>2</sup>  |
| Length of overland flow | 40.257 m                    |

## CATCHMENT CLIMATOLOGY

