

Vadiya Dam

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| Location | 21.6767° N, 70.8261° E |
| State | Gujarat |
| Nearest City | Vadiya- Kunkava |
| Year of Completion | 1992 |
| Operated and Maintained by | Gujarat Engineering Research Institute |
| River Basin | Sabarmati |
| River | Venu |
| Dam Type | Earthfill Embankment |
| Height above lowest foundation level | 16.4 m |
| Dam length | 2476.0 m |
| Reservoir Area | 3073000.0 m ² |
| Gross storage capacity | 5365000.0 m ³ |
| Effective storage capacity | 5094000.0 m ³ |

CATCHMENT CHARACTERISTICS

| Catchment Properties | Values |
|-------------------------|-----------------------------|
| Area of catchment | 68.1 km ² |
| Perimeter of catchment | 41.3 km |
| Basin Length | 13390.0 m |
| Form factor | 0.38012 |
| Circularity ratio | 0.50155 |
| Elongation ratio | 0.69546 |
| Highest Stream order | 6 |
| Max elevation | 187.0 m |
| Min elevation | 121.0 m |
| Mean bifurcation ratio | 2.4002 |
| Stream frequency | 74.1620 per km ² |
| Relief | 66.00 m |
| Drainage density | 10.0110 km/km ² |
| Length of overland flow | 49.943 m |

CATCHMENT CLIMATOLOGY

