

## Vaidy Dam

<b>Location</b>	23.5769° N, 73.5936° E
<b>State</b>	Gujarat
<b>Nearest City</b>	Meghraj
<b>Year of Completion</b>	1980
<b>Operated and Maintained by</b>	Gujarat Engineering Research Institute
<b>River Basin</b>	Sabarmati
<b>River</b>	Watrak
<b>Dam Type</b>	Earthfill Embankment
<b>Height above lowest foundation level</b>	19.1 m
<b>Dam length</b>	1008.0 m
<b>Reservoir Area</b>	4000000.0 m <sup>2</sup>
<b>Gross storage capacity</b>	9290000.0 m <sup>3</sup>
<b>Effective storage capacity</b>	8700000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
<b>Area of catchment</b>	58.8 km <sup>2</sup>
<b>Perimeter of catchment</b>	44.3 km
<b>Basin Length</b>	17660.0 m
<b>Form factor</b>	0.18839
<b>Circularity ratio</b>	0.37634
<b>Elongation ratio</b>	0.48960
<b>Highest Stream order</b>	6
<b>Max elevation</b>	372.0 m
<b>Min elevation</b>	177.0 m
<b>Mean bifurcation ratio</b>	2.0459
<b>Stream frequency</b>	69.4410 per km <sup>2</sup>
<b>Relief</b>	195.00 m
<b>Drainage density</b>	8.7080 km/km <sup>2</sup>
<b>Length of overland flow</b>	57.416 m

## CATCHMENT CLIMATOLOGY

