

## Bamathia-1 Dam

Location	22.0425° N, 70.0425° E
State	Gujarat
Nearest City	Jamjodhpur
Year of Completion	1972
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local Stream
Dam Type	Earthfill Embankment
Height above lowest foundation level	14.0 m
Dam length	1342.0 m
Reservoir Area	304966.0 m <sup>2</sup>
Gross storage capacity	449000.0 m <sup>3</sup>
Effective storage capacity	449000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	7.9 km <sup>2</sup>
Perimeter of catchment	13.8 km
Basin Length	3797.6 m
Form factor	0.54746
Circularity ratio	0.52378
Elongation ratio	0.83461
Highest Stream order	5
Max elevation	207.0 m
Min elevation	149.0 m
Mean bifurcation ratio	2.5585
Stream frequency	75.3630 per km <sup>2</sup>
Relief	58.00 m
Drainage density	9.7740 km/km <sup>2</sup>
Length of overland flow	51.156 m

## CATCHMENT CLIMATOLOGY

