

## Solmatia Dam

Location	21.7144° N, 72.0833° E
State	Gujarat
Nearest City	Bhavnagar
Year of Completion	1955
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Solmatia
Dam Type	Earthfill Embankment
Height above lowest foundation level	14.5 m
Dam length	763.0 m
Reservoir Area	15255.0 m <sup>2</sup>
Gross storage capacity	1060000.0 m <sup>3</sup>
Effective storage capacity	1040000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	12.6 km <sup>2</sup>
Perimeter of catchment	17.9 km
Basin Length	7159.4 m
Form factor	0.24518
Circularity ratio	0.49211
Elongation ratio	0.55854
Highest Stream order	5
Max elevation	121.0 m
Min elevation	35.0 m
Mean bifurcation ratio	2.2063
Stream frequency	71.2970 per km <sup>2</sup>
Relief	86.00 m
Drainage density	8.8800 km/km <sup>2</sup>
Length of overland flow	56.306 m

## CATCHMENT CLIMATOLOGY

Data not available.