

## Bhadar Dam

Location	21.8150° N, 70.7681° E
State	Gujarat
Nearest City	Gondal
Year of Completion	1985
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Bhadar
Dam Type	Earthfill Embankment
Height above lowest foundation level	29.3 m
Dam length	4429.0 m
Reservoir Area	3639000.0 m <sup>2</sup>
Gross storage capacity	5240000.0 m <sup>3</sup>
Effective storage capacity	4240000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	2433.3 km <sup>2</sup>
Perimeter of catchment	242.8 km
Basin Length	72166.0 m
Form factor	0.46722
Circularity ratio	0.51869
Elongation ratio	0.77103
Highest Stream order	9
Max elevation	302.0 m
Min elevation	78.0 m
Mean bifurcation ratio	61.1590
Stream frequency	72.4000 per km <sup>2</sup>
Relief	224.00 m
Drainage density	9.6420 km/km <sup>2</sup>
Length of overland flow	51.859 m

## CATCHMENT CLIMATOLOGY

