

## Badargadh( Shiv) Dam

Location	23.4569° N, 70.6153° E
State	Gujarat
Nearest City	Rapar
Year of Completion	1954
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Badargadh
Dam Type	Earthfill Embankment
Height above lowest foundation level	20.0 m
Dam length	322.0 m
Reservoir Area	25934.0 m <sup>2</sup>
Gross storage capacity	5110000.0 m <sup>3</sup>
Effective storage capacity	4840000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	8.7 km <sup>2</sup>
Perimeter of catchment	13.7 km
Basin Length	3938.3 m
Form factor	0.55777
Circularity ratio	0.57799
Elongation ratio	0.84244
Highest Stream order	4
Max elevation	193.0 m
Min elevation	131.0 m
Mean bifurcation ratio	2.4865
Stream frequency	79.1820 per km <sup>2</sup>
Relief	62.00 m
Drainage density	10.3110 km/km <sup>2</sup>
Length of overland flow	48.490 m

## CATCHMENT CLIMATOLOGY

