

## Dedarani Dam

Location	23.4939° N, 68.9411° E
State	Gujarat
Nearest City	Lakhpat
Year of Completion	1983
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Bakrod Nadi
Dam Type	Earthfill Embankment
Height above lowest foundation level	14.1 m
Dam length	802.0 m
Reservoir Area	280450.0 m <sup>2</sup>
Gross storage capacity	1460000.0 m <sup>3</sup>
Effective storage capacity	1220000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	37.4 km <sup>2</sup>
Perimeter of catchment	28.8 km
Basin Length	9319.7 m
Form factor	0.43097
Circularity ratio	0.56691
Elongation ratio	0.74051
Highest Stream order	6
Max elevation	228.0 m
Min elevation	54.0 m
Mean bifurcation ratio	2.7309
Stream frequency	78.6760 per km <sup>2</sup>
Relief	174.00 m
Drainage density	10.6430 km/km <sup>2</sup>
Length of overland flow	46.981 m

## CATCHMENT CLIMATOLOGY

