

## Vachappari Dam

Location	22.0603° N, 70.8619° E
State	Gujarat
Nearest City	Kotda Sangdi
Year of Completion	1970
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Vachappari
Dam Type	Other
Height above lowest foundation level	29.5 m
Dam length	1814.0 m
Reservoir Area	1907000.0 m <sup>2</sup>
Gross storage capacity	5760000.0 m <sup>3</sup>
Effective storage capacity	5578000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	42.7 km <sup>2</sup>
Perimeter of catchment	34.9 km
Basin Length	12395.0 m
Form factor	0.27767
Circularity ratio	0.44061
Elongation ratio	0.59440
Highest Stream order	6
Max elevation	242.0 m
Min elevation	162.0 m
Mean bifurcation ratio	2.2796
Stream frequency	76.1340 per km <sup>2</sup>
Relief	80.00 m
Drainage density	10.3430 km/km <sup>2</sup>
Length of overland flow	48.341 m

## CATCHMENT CLIMATOLOGY

