

## Fatehgadh Dam

Location	23.6958° N, 70.7886° E
State	Gujarat
Nearest City	Rapar
Year of Completion	1987
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Malan
Dam Type	Earthfill Embankment
Height above lowest foundation level	11.2 m
Dam length	4049.0 m
Reservoir Area	8520000.0 m <sup>2</sup>
Gross storage capacity	7450000.0 m <sup>3</sup>
Effective storage capacity	6630000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	84.7 km <sup>2</sup>
Perimeter of catchment	62.9 km
Basin Length	22117.0 m
Form factor	0.17308
Circularity ratio	0.26922
Elongation ratio	0.46928
Highest Stream order	6
Max elevation	113.0 m
Min elevation	15.0 m
Mean bifurcation ratio	2.0125
Stream frequency	71.4030 per km <sup>2</sup>
Relief	98.00 m
Drainage density	9.2970 km/km <sup>2</sup>
Length of overland flow	53.782 m

## CATCHMENT CLIMATOLOGY

