

Shivsagar Dam

Location	22.0494° N, 71.2083° E
State	Gujarat
Nearest City	Jasdan
Year of Completion	1963
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Tkeri
Dam Type	Earthfill Embankment
Height above lowest foundation level	13.6 m
Dam length	220.0 m
Reservoir Area	1400000.0 m ²
Gross storage capacity	3630000.0 m ³
Effective storage capacity	3290000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	81.9 km ²
Perimeter of catchment	48.8 km
Basin Length	17329.0 m
Form factor	0.27259
Circularity ratio	0.43277
Elongation ratio	0.58893
Highest Stream order	6
Max elevation	295.0 m
Min elevation	189.0 m
Mean bifurcation ratio	2.0765
Stream frequency	75.2140 per km ²
Relief	106.00 m
Drainage density	10.1690 km/km ²
Length of overland flow	49.168 m

CATCHMENT CLIMATOLOGY

