

Vijaysagar Dam

Location	23.0244° N, 69.4553° E
State	Gujarat
Nearest City	Mandavi
Year of Completion	1948
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Rukmawati
Dam Type	Earthfill Embankment
Height above lowest foundation level	26.2 m
Dam length	732.0 m
Reservoir Area	3626749.0 m ²
Gross storage capacity	20820000.0 m ³
Effective storage capacity	19177000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	233.4 km ²
Perimeter of catchment	71.0 km
Basin Length	23187.0 m
Form factor	0.43405
Circularity ratio	0.58186
Elongation ratio	0.74315
Highest Stream order	7
Max elevation	275.0 m
Min elevation	71.0 m
Mean bifurcation ratio	2.3220
Stream frequency	78.0300 per km ²
Relief	204.00 m
Drainage density	10.6800 km/km ²
Length of overland flow	46.817 m

CATCHMENT CLIMATOLOGY

