

Vigodi Dam

Location	23.4850° N, 69.0631° E
State	Gujarat
Nearest City	Nakhatrana
Year of Completion	1957
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Makdawali Nadi
Dam Type	Earthfill Embankment
Height above lowest foundation level	15.3 m
Dam length	670.7 m
Reservoir Area	13147.0 m ²
Gross storage capacity	1960000.0 m ³
Effective storage capacity	1960000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	27.2 km ²
Perimeter of catchment	24.8 km
Basin Length	7378.4 m
Form factor	0.50026
Circularity ratio	0.55682
Elongation ratio	0.79783
Highest Stream order	6
Max elevation	195.0 m
Min elevation	84.0 m
Mean bifurcation ratio	2.1262
Stream frequency	77.0350 per km ²
Relief	111.00 m
Drainage density	10.3890 km/km ²
Length of overland flow	48.126 m

CATCHMENT CLIMATOLOGY

