

Vadal Dam

Location	21.4281° N, 71.8589° E
State	Gujarat
Nearest City	Palitana
Year of Completion	1992
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	T-Shetrunji
Dam Type	Earthfill Embankment
Height above lowest foundation level	17.0 m
Dam length	164.0 m
Reservoir Area	150000.0 m ²
Gross storage capacity	598000.0 m ³
Effective storage capacity	598000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	5.0 km ²
Perimeter of catchment	10.0 km
Basin Length	2996.0 m
Form factor	0.55907
Circularity ratio	0.63348
Elongation ratio	0.84342
Highest Stream order	4
Max elevation	172.0 m
Min elevation	74.0 m
Mean bifurcation ratio	2.1841
Stream frequency	68.5520 per km ²
Relief	98.00 m
Drainage density	8.0820 km/km ²
Length of overland flow	61.864 m

CATCHMENT CLIMATOLOGY

