

Vadekhan Dam

Location	21.7944° N, 70.0558° E
State	Gujarat
Nearest City	Upleta
Year of Completion	1984
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local Vehla
Dam Type	Earthfill Embankment
Height above lowest foundation level	16.0 m
Dam length	338.0 m
Reservoir Area	11089.0 m ²
Gross storage capacity	598000.0 m ³
Effective storage capacity	453000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	5.3 km ²
Perimeter of catchment	12.0 km
Basin Length	3366.1 m
Form factor	0.46415
Circularity ratio	0.45722
Elongation ratio	0.76849
Highest Stream order	4
Max elevation	227.0 m
Min elevation	111.0 m
Mean bifurcation ratio	2.5573
Stream frequency	71.6840 per km ²
Relief	116.00 m
Drainage density	9.3560 km/km ²
Length of overland flow	53.445 m

CATCHMENT CLIMATOLOGY

