

Vadali Dam

Location	21.9853° N, 70.2903° E
State	Gujarat
Nearest City	Upleta
Year of Completion	1983
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Tbhadra
Dam Type	Earthfill Embankment
Height above lowest foundation level	13.9 m
Dam length	1390.0 m
Reservoir Area	489400.0 m ²
Gross storage capacity	1050000.0 m ³
Effective storage capacity	950000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	12.9 km ²
Perimeter of catchment	16.3 km
Basin Length	5060.1 m
Form factor	0.50485
Circularity ratio	0.61292
Elongation ratio	0.80147
Highest Stream order	5
Max elevation	236.0 m
Min elevation	118.0 m
Mean bifurcation ratio	2.3776
Stream frequency	77.2080 per km ²
Relief	118.00 m
Drainage density	10.2810 km/km ²
Length of overland flow	48.632 m

CATCHMENT CLIMATOLOGY

