

Gadhavel Dam

Location	22.5742° N, 74.0619° E
State	Gujarat
Nearest City	Dhanpur
Year of Completion	1982
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Mahi
River	Kotar
Dam Type	Earthfill Embankment
Height above lowest foundation level	22.0 m
Dam length	850.0 m
Reservoir Area	1160000.0 m ²
Gross storage capacity	3200000.0 m ³
Effective storage capacity	2730000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	12.1 km ²
Perimeter of catchment	17.3 km
Basin Length	6794.4 m
Form factor	0.26182
Circularity ratio	0.51027
Elongation ratio	0.57718
Highest Stream order	4
Max elevation	647.0 m
Min elevation	250.0 m
Mean bifurcation ratio	2.6723
Stream frequency	87.1230 per km ²
Relief	397.00 m
Drainage density	12.7080 km/km ²
Length of overland flow	39.346 m

CATCHMENT CLIMATOLOGY

