

Kharadia Dam

Location	23.4839° N, 69.4319° E
State	Gujarat
Nearest City	Nakhatrana
Year of Completion	1969
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Gumar Nadi
Dam Type	Earthfill Embankment
Height above lowest foundation level	15.9 m
Dam length	840.0 m
Reservoir Area	307000.0 m ²
Gross storage capacity	1680000.0 m ³
Effective storage capacity	634000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	48.8 km ²
Perimeter of catchment	39.8 km
Basin Length	13995.0 m
Form factor	0.24897
Circularity ratio	0.38688
Elongation ratio	0.56284
Highest Stream order	6
Max elevation	270.0 m
Min elevation	20.0 m
Mean bifurcation ratio	2.1232
Stream frequency	78.4840 per km ²
Relief	250.00 m
Drainage density	10.5390 km/km ²
Length of overland flow	47.442 m

CATCHMENT CLIMATOLOGY

