

Lotiya Dam

Location	23.3703° N, 69.9956° E
State	Gujarat
Nearest City	Bhuj
Year of Completion	1953
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Nihwara
Dam Type	Earthfill Embankment
Height above lowest foundation level	14.4 m
Dam length	640.0 m
Reservoir Area	212000.0 m ²
Gross storage capacity	1006000.0 m ³
Effective storage capacity	856000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	14.1 km ²
Perimeter of catchment	17.9 km
Basin Length	6402.8 m
Form factor	0.34275
Circularity ratio	0.54906
Elongation ratio	0.66039
Highest Stream order	5
Max elevation	175.0 m
Min elevation	35.0 m
Mean bifurcation ratio	2.5367
Stream frequency	88.3920 per km ²
Relief	140.00 m
Drainage density	12.4170 km/km ²
Length of overland flow	40.267 m

CATCHMENT CLIMATOLOGY

