

Kotadia Dam

Location	22.0631° N, 69.6781° E
State	Gujarat
Nearest City	Khambhalia
Year of Completion	1988
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Sorti Nadi
Dam Type	Earthfill Embankment
Height above lowest foundation level	12.5 m
Dam length	121.0 m
Reservoir Area	894438.0 m ²
Gross storage capacity	2000000.0 m ³
Effective storage capacity	1730000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	27.5 km ²
Perimeter of catchment	24.2 km
Basin Length	7408.8 m
Form factor	0.50188
Circularity ratio	0.59153
Elongation ratio	0.79911
Highest Stream order	6
Max elevation	115.0 m
Min elevation	71.0 m
Mean bifurcation ratio	3.6636
Stream frequency	71.2200 per km ²
Relief	44.00 m
Drainage density	9.2880 km/km ²
Length of overland flow	53.835 m

CATCHMENT CLIMATOLOGY

