

## Motikharsoli Dam

Location	23.1961° N, 73.8547° E
State	Gujarat
Nearest City	Santrampur
Year of Completion	1974
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Mahi
River	Kotar
Dam Type	Earthfill Embankment
Height above lowest foundation level	19.5 m
Dam length	816.0 m
Reservoir Area	80000.0 m <sup>2</sup>
Gross storage capacity	3289000.0 m <sup>3</sup>
Effective storage capacity	2490000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	15.7 km <sup>2</sup>
Perimeter of catchment	19.8 km
Basin Length	6198.3 m
Form factor	0.40836
Circularity ratio	0.50539
Elongation ratio	0.72083
Highest Stream order	5
Max elevation	241.0 m
Min elevation	124.0 m
Mean bifurcation ratio	2.5434
Stream frequency	73.8100 per km <sup>2</sup>
Relief	117.00 m
Drainage density	9.6370 km/km <sup>2</sup>
Length of overland flow	51.884 m

## CATCHMENT CLIMATOLOGY

