

## Machhaliwad Dam

Location	22.1544° N, 70.3106° E
State	Gujarat
Nearest City	Kalavad
Year of Completion	1979
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local Stream
Dam Type	Earthfill Embankment
Height above lowest foundation level	16.0 m
Dam length	962.0 m
Reservoir Area	61757.0 m <sup>2</sup>
Gross storage capacity	1237000.0 m <sup>3</sup>
Effective storage capacity	790000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	9.0 km <sup>2</sup>
Perimeter of catchment	15.4 km
Basin Length	5189.7 m
Form factor	0.33529
Circularity ratio	0.47887
Elongation ratio	0.65316
Highest Stream order	4
Max elevation	211.0 m
Min elevation	141.0 m
Mean bifurcation ratio	2.2144
Stream frequency	78.2930 per km <sup>2</sup>
Relief	70.00 m
Drainage density	10.2780 km/km <sup>2</sup>
Length of overland flow	48.646 m

## CATCHMENT CLIMATOLOGY

