

## Morchbana Dam

Location	23.5161° N, 68.8908° E
State	Gujarat
Nearest City	Lakhpat
Year of Completion	1976
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Khari River
Dam Type	Earthfill Embankment
Height above lowest foundation level	13.9 m
Dam length	580.0 m
Reservoir Area	150912.0 m <sup>2</sup>
Gross storage capacity	680000.0 m <sup>3</sup>
Effective storage capacity	680000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	11.2 km <sup>2</sup>
Perimeter of catchment	17.7 km
Basin Length	5106.9 m
Form factor	0.42836
Circularity ratio	0.44964
Elongation ratio	0.73826
Highest Stream order	5
Max elevation	161.0 m
Min elevation	72.0 m
Mean bifurcation ratio	3.1157
Stream frequency	73.5780 per km <sup>2</sup>
Relief	89.00 m
Drainage density	9.7660 km/km <sup>2</sup>
Length of overland flow	51.196 m

## CATCHMENT CLIMATOLOGY

