

## Gugariyana Dam

Location	23.5700° N, 68.5261° E
State	Gujarat
Nearest City	Lakhpat
Year of Completion	1980
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local River
Dam Type	Earthfill Embankment
Height above lowest foundation level	24.6 m
Dam length	289.6 m
Reservoir Area	3924.0 m <sup>2</sup>
Gross storage capacity	570000.0 m <sup>3</sup>
Effective storage capacity	570000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	20.6 km <sup>2</sup>
Perimeter of catchment	26.3 km
Basin Length	11371.0 m
Form factor	0.15921
Circularity ratio	0.37489
Elongation ratio	0.45009
Highest Stream order	4
Max elevation	80.0 m
Min elevation	9.0 m
Mean bifurcation ratio	2.5279
Stream frequency	71.9460 per km <sup>2</sup>
Relief	71.00 m
Drainage density	9.3190 km/km <sup>2</sup>
Length of overland flow	53.655 m

## CATCHMENT CLIMATOLOGY

