

Baranda Dam

Location	23.5678° N, 68.6839° E
State	Gujarat
Nearest City	Lakhpat
Year of Completion	1964
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local River
Dam Type	Earthfill Embankment
Height above lowest foundation level	13.4 m
Dam length	725.6 m
Reservoir Area	283020.0 m ²
Gross storage capacity	1630000.0 m ³
Effective storage capacity	1300000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	21.5 km ²
Perimeter of catchment	21.6 km
Basin Length	6605.6 m
Form factor	0.49360
Circularity ratio	0.57970
Elongation ratio	0.79250
Highest Stream order	6
Max elevation	119.0 m
Min elevation	62.0 m
Mean bifurcation ratio	2.4571
Stream frequency	73.5450 per km ²
Relief	57.00 m
Drainage density	9.6740 km/km ²
Length of overland flow	51.686 m

CATCHMENT CLIMATOLOGY

