

Nirona Dam

Location	23.4397° N, 69.4931° E
State	Gujarat
Nearest City	Nakhatrana
Year of Completion	1970
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Bharud
Dam Type	Earthfill Embankment
Height above lowest foundation level	37.8 m
Dam length	1689.4 m
Reservoir Area	4410000.0 m ²
Gross storage capacity	27170000.0 m ³
Effective storage capacity	22980000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	378.2 km ²
Perimeter of catchment	98.1 km
Basin Length	33482.0 m
Form factor	0.33735
Circularity ratio	0.49392
Elongation ratio	0.65516
Highest Stream order	7
Max elevation	399.0 m
Min elevation	18.0 m
Mean bifurcation ratio	2.1682
Stream frequency	78.4430 per km ²
Relief	381.00 m
Drainage density	10.7730 km/km ²
Length of overland flow	46.411 m

CATCHMENT CLIMATOLOGY

