

## Nyari-1 Dam

Location	22.2456° N, 70.7042° E
State	Gujarat
Nearest City	Rajkot
Year of Completion	1976
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Nyari
Dam Type	Earthfill Embankment
Height above lowest foundation level	18.0 m
Dam length	4206.0 m
Reservoir Area	218200.0 m <sup>2</sup>
Gross storage capacity	35350000.0 m <sup>3</sup>
Effective storage capacity	33840000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	87.1 km <sup>2</sup>
Perimeter of catchment	44.9 km
Basin Length	19319.0 m
Form factor	0.23335
Circularity ratio	0.54256
Elongation ratio	0.54489
Highest Stream order	6
Max elevation	202.0 m
Min elevation	111.0 m
Mean bifurcation ratio	2.1239
Stream frequency	69.2970 per km <sup>2</sup>
Relief	91.00 m
Drainage density	8.9530 km/km <sup>2</sup>
Length of overland flow	55.846 m

## CATCHMENT CLIMATOLOGY

