

Nagarpiplalia Dam

Location	22.2636° N, 70.5364° E
State	Gujarat
Nearest City	Lodhi Ka Mahal
Year of Completion	1983
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Ruparel
Dam Type	Earthfill Embankment
Height above lowest foundation level	15.0 m
Dam length	169.0 m
Reservoir Area	304308.0 m ²
Gross storage capacity	1133000.0 m ³
Effective storage capacity	1000000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	14.9 km ²
Perimeter of catchment	18.2 km
Basin Length	6832.2 m
Form factor	0.31860
Circularity ratio	0.56582
Elongation ratio	0.63670
Highest Stream order	5
Max elevation	138.0 m
Min elevation	98.0 m
Mean bifurcation ratio	11.4130
Stream frequency	68.3150 per km ²
Relief	40.00 m
Drainage density	8.6310 km/km ²
Length of overland flow	57.933 m

CATCHMENT CLIMATOLOGY

