

Patiyali Dam

Location	22.1081° N, 71.4425° E
State	Gujarat
Nearest City	Jasdan
Year of Completion	1999
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Utavali
Dam Type	Earthfill Embankment
Height above lowest foundation level	17.8 m
Dam length	4219.7 m
Reservoir Area	1950000.0 m ²
Gross storage capacity	2930000.0 m ³
Effective storage capacity	2480000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	11.6 km ²
Perimeter of catchment	14.1 km
Basin Length	4469.3 m
Form factor	0.58196
Circularity ratio	0.73548
Elongation ratio	0.86051
Highest Stream order	5
Max elevation	198.0 m
Min elevation	140.0 m
Mean bifurcation ratio	2.6402
Stream frequency	75.8750 per km ²
Relief	58.00 m
Drainage density	10.1280 km/km ²
Length of overland flow	49.369 m

CATCHMENT CLIMATOLOGY

