

Piyoni Dam

Location	23.2739° N, 69.1650° E
State	Gujarat
Nearest City	Abdasa
Year of Completion	1986
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Ratanpar
Dam Type	Earthfill Embankment
Height above lowest foundation level	16.0 m
Dam length	230.0 m
Reservoir Area	23866.0 m ²
Gross storage capacity	680000.0 m ³
Effective storage capacity	680000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	16.7 km ²
Perimeter of catchment	19.6 km
Basin Length	7161.5 m
Form factor	0.32530
Circularity ratio	0.54360
Elongation ratio	0.64335
Highest Stream order	5
Max elevation	273.0 m
Min elevation	119.0 m
Mean bifurcation ratio	2.1572
Stream frequency	80.1390 per km ²
Relief	154.00 m
Drainage density	10.8580 km/km ²
Length of overland flow	46.048 m

CATCHMENT CLIMATOLOGY

