

Panelia Dam

Location	22.1778° N, 71.3806° E
State	Gujarat
Nearest City	Jasdan
Year of Completion	1882
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local River
Dam Type	Earthfill Embankment
Height above lowest foundation level	15.0 m
Dam length	564.0 m
Reservoir Area	1700000.0 m ²
Gross storage capacity	755000.0 m ³
Effective storage capacity	755000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	19.6 km ²
Perimeter of catchment	27.9 km
Basin Length	10574.0 m
Form factor	0.17517
Circularity ratio	0.31618
Elongation ratio	0.47210
Highest Stream order	5
Max elevation	293.0 m
Min elevation	175.0 m
Mean bifurcation ratio	2.0763
Stream frequency	78.4250 per km ²
Relief	118.00 m
Drainage density	10.8770 km/km ²
Length of overland flow	45.970 m

CATCHMENT CLIMATOLOGY

