

Saraswati Barrage Dam

Location	23.8722° N, 72.1444° E
State	Gujarat
Nearest City	Patan
Year of Completion	1972
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Saraswati
Dam Type	Earthfill Embankment
Height above lowest foundation level	15.0 m
Dam length	9887.0 m
Reservoir Area	890000.0 m ²
Gross storage capacity	1420000.0 m ³
Effective storage capacity	1420000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	1390.2 km ²
Perimeter of catchment	249.9 km
Basin Length	92574.0 m
Form factor	0.16222
Circularity ratio	0.27993
Elongation ratio	0.45432
Highest Stream order	9
Max elevation	769.0 m
Min elevation	58.0 m
Mean bifurcation ratio	2.4448
Stream frequency	76.0430 per km ²
Relief	711.00 m
Drainage density	10.2580 km/km ²
Length of overland flow	48.744 m

CATCHMENT CLIMATOLOGY

