

Ratnal Dam

Location	23.1956° N, 69.9111° E
State	Gujarat
Nearest City	Anjar
Year of Completion	1980
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local Stream
Dam Type	Earthfill Embankment
Height above lowest foundation level	14.6 m
Dam length	1005.0 m
Reservoir Area	250630.0 m ²
Gross storage capacity	1670000.0 m ³
Effective storage capacity	1320000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	5.4 km ²
Perimeter of catchment	13.3 km
Basin Length	5114.7 m
Form factor	0.20601
Circularity ratio	0.38564
Elongation ratio	0.51198
Highest Stream order	5
Max elevation	149.0 m
Min elevation	109.0 m
Mean bifurcation ratio	6.7185
Stream frequency	71.0660 per km ²
Relief	40.00 m
Drainage density	8.8030 km/km ²
Length of overland flow	56.800 m

CATCHMENT CLIMATOLOGY

