

Manjal- Reladia Dam

Location	23.0969° N, 69.0869° E
State	Gujarat
Nearest City	Abdasa
Year of Completion	1976
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Chok Nadi
Dam Type	Earthfill Embankment
Height above lowest foundation level	15.8 m
Dam length	1200.0 m
Reservoir Area	365411.0 m ²
Gross storage capacity	770000.0 m ³
Effective storage capacity	770000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	16.2 km ²
Perimeter of catchment	17.4 km
Basin Length	6050.7 m
Form factor	0.44266
Circularity ratio	0.67451
Elongation ratio	0.75049
Highest Stream order	6
Max elevation	167.0 m
Min elevation	50.0 m
Mean bifurcation ratio	2.5522
Stream frequency	78.6750 per km ²
Relief	117.00 m
Drainage density	10.6720 km/km ²
Length of overland flow	46.851 m

CATCHMENT CLIMATOLOGY

