

Alansagar Dam

Location	22.0764° N, 71.2253° E
State	Gujarat
Nearest City	Jasdan
Year of Completion	1901
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Bhadar
Dam Type	Earthfill Embankment
Height above lowest foundation level	19.0 m
Dam length	655.0 m
Reservoir Area	3460630.0 m ²
Gross storage capacity	12740000.0 m ³
Effective storage capacity	5768000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	3.6 km ²
Perimeter of catchment	10.1 km
Basin Length	4215.1 m
Form factor	0.20496
Circularity ratio	0.44955
Elongation ratio	0.51067
Highest Stream order	4
Max elevation	275.0 m
Min elevation	202.0 m
Mean bifurcation ratio	2.6147
Stream frequency	78.2650 per km ²
Relief	73.00 m
Drainage density	10.1660 km/km ²
Length of overland flow	49.185 m

CATCHMENT CLIMATOLOGY

