

Lodrani Dam

Location	23.9050° N, 70.6350° E
State	Gujarat
Nearest City	Rapar
Year of Completion	1971
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Lodrani
Dam Type	Earthfill Embankment
Height above lowest foundation level	30.6 m
Dam length	975.0 m
Reservoir Area	355978.0 m ²
Gross storage capacity	1420000.0 m ³
Effective storage capacity	1420000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	16.7 km ²
Perimeter of catchment	19.1 km
Basin Length	6706.9 m
Form factor	0.37181
Circularity ratio	0.57637
Elongation ratio	0.68781
Highest Stream order	6
Max elevation	115.0 m
Min elevation	24.0 m
Mean bifurcation ratio	2.1830
Stream frequency	80.5380 per km ²
Relief	91.00 m
Drainage density	10.7870 km/km ²
Length of overland flow	46.351 m

CATCHMENT CLIMATOLOGY

