

Chimnabai-Lake Dam

Location	23.9308° N, 72.6431° E
State	Gujarat
Nearest City	Kheralu
Year of Completion	1906
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Rupen
Dam Type	Earthfill Embankment
Height above lowest foundation level	15.0 m
Dam length	4840.0 m
Reservoir Area	6480000.0 m ²
Gross storage capacity	17880000.0 m ³
Effective storage capacity	17880000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	38.3 km ²
Perimeter of catchment	35.6 km
Basin Length	12904.0 m
Form factor	0.22983
Circularity ratio	0.37933
Elongation ratio	0.54077
Highest Stream order	5
Max elevation	433.0 m
Min elevation	176.0 m
Mean bifurcation ratio	2.4259
Stream frequency	77.6600 per km ²
Relief	257.00 m
Drainage density	10.4990 km/km ²
Length of overland flow	47.624 m

CATCHMENT CLIMATOLOGY

