

Chachka Dam

Location	22.4256° N, 71.6589° E
State	Gujarat
Nearest City	Limbadi
Year of Completion	1976
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Magadakivehla
Dam Type	Earthfill Embankment
Height above lowest foundation level	11.0 m
Dam length	446.0 m
Reservoir Area	827082.0 m ²
Gross storage capacity	2600000.0 m ³
Effective storage capacity	1940000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	79.8 km ²
Perimeter of catchment	48.1 km
Basin Length	19876.0 m
Form factor	0.20188
Circularity ratio	0.43318
Elongation ratio	0.50682
Highest Stream order	6
Max elevation	147.0 m
Min elevation	72.0 m
Mean bifurcation ratio	2.2775
Stream frequency	72.5610 per km ²
Relief	75.00 m
Drainage density	9.5870 km/km ²
Length of overland flow	52.155 m

CATCHMENT CLIMATOLOGY

