

Chavadka Dam

Location	23.3489° N, 69.3450° E
State	Gujarat
Nearest City	Nakhatrana
Year of Completion	1963
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local River
Dam Type	Earthfill Embankment
Height above lowest foundation level	10.7 m
Dam length	173.3 m
Reservoir Area	265944.0 m ²
Gross storage capacity	1560000.0 m ³
Effective storage capacity	1560000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	33.9 km ²
Perimeter of catchment	29.8 km
Basin Length	9220.4 m
Form factor	0.39823
Circularity ratio	0.47924
Elongation ratio	0.71183
Highest Stream order	6
Max elevation	294.0 m
Min elevation	98.0 m
Mean bifurcation ratio	3.8230
Stream frequency	76.9740 per km ²
Relief	196.00 m
Drainage density	10.2160 km/km ²
Length of overland flow	48.943 m

CATCHMENT CLIMATOLOGY

