

Motakotada Dam

Location	23.7211°N, 73.1019°E
State	Gujarat
Nearest City	Idar
Year of Completion	1980
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local Vangha
Dam Type	Earthfill Embankment
Height above lowest foundation level	18.0 m
Dam length	695.0 m
Reservoir Area	770078.0 m ²
Gross storage capacity	3269000.0 m ³
Effective storage capacity	3069000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	20.3 km ²
Perimeter of catchment	26.0 km
Basin Length	9229.6 m
Form factor	0.23833
Circularity ratio	0.37610
Elongation ratio	0.55068
Highest Stream order	5
Max elevation	328.0 m
Min elevation	175.0 m
Mean bifurcation ratio	2.3801
Stream frequency	76.7390 per km ²
Relief	153.00 m
Drainage density	10.2920 km/km ²
Length of overland flow	48.580 m

CATCHMENT CLIMATOLOGY

