

Mota Kanthariya Dam

Location	23.6931° N, 73.4900° E
State	Gujarat
Nearest City	Bhiloda
Year of Completion	1981
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local Wangha
Dam Type	Earthfill Embankment
Height above lowest foundation level	13.4 m
Dam length	939.0 m
Reservoir Area	450000.0 m ²
Gross storage capacity	279000.0 m ³
Effective storage capacity	279000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	14.5 km ²
Perimeter of catchment	16.7 km
Basin Length	5436.5 m
Form factor	0.49063
Circularity ratio	0.65387
Elongation ratio	0.79011
Highest Stream order	5
Max elevation	353.0 m
Min elevation	218.0 m
Mean bifurcation ratio	2.7827
Stream frequency	72.6170 per km ²
Relief	135.00 m
Drainage density	9.2950 km/km ²
Length of overland flow	53.790 m

CATCHMENT CLIMATOLOGY

