

Mota-Chhaida Dam

Location	22.3056° N, 71.5097° E
State	Gujarat
Nearest City	Botad
Year of Completion	1995
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Sodhedare
Dam Type	Earthfill Embankment
Height above lowest foundation level	11.5 m
Dam length	842.5 m
Reservoir Area	4141250.0 m ²
Gross storage capacity	610000.0 m ³
Effective storage capacity	610000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	5.2 km ²
Perimeter of catchment	9.3 km
Basin Length	2849.1 m
Form factor	0.64300
Circularity ratio	0.75611
Elongation ratio	0.90451
Highest Stream order	5
Max elevation	136.0 m
Min elevation	111.0 m
Mean bifurcation ratio	2.9553
Stream frequency	73.3770 per km ²
Relief	25.00 m
Drainage density	10.1540 km/km ²
Length of overland flow	49.240 m

CATCHMENT CLIMATOLOGY

