

Moti-Kundol Dam

Location	21.9189° N, 71.4639° E
State	Gujarat
Nearest City	Gadhada
Year of Completion	1989
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local Kotar
Dam Type	Earthfill Embankment
Height above lowest foundation level	14.5 m
Dam length	117.0 m
Reservoir Area	515073.0 m ²
Gross storage capacity	1310000.0 m ³
Effective storage capacity	1140000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	18.4 km ²
Perimeter of catchment	20.3 km
Basin Length	6855.4 m
Form factor	0.39097
Circularity ratio	0.55923
Elongation ratio	0.70531
Highest Stream order	5
Max elevation	291.0 m
Min elevation	116.0 m
Mean bifurcation ratio	2.2947
Stream frequency	76.3030 per km ²
Relief	175.00 m
Drainage density	10.1600 km/km ²
Length of overland flow	49.210 m

CATCHMENT CLIMATOLOGY

