

Motisar Dam

Location	22.0711° N, 70.6686° E
State	Gujarat
Nearest City	Gondal
Year of Completion	1991
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Motisar
Dam Type	Other
Height above lowest foundation level	8.3 m
Dam length	1937.0 m
Reservoir Area	1502000.0 m ²
Gross storage capacity	2700000.0 m ³
Effective storage capacity	2450000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	44.5 km ²
Perimeter of catchment	30.9 km
Basin Length	9039.8 m
Form factor	0.54417
Circularity ratio	0.58585
Elongation ratio	0.83210
Highest Stream order	6
Max elevation	185.0 m
Min elevation	136.0 m
Mean bifurcation ratio	2.1499
Stream frequency	70.4310 per km ²
Relief	49.00 m
Drainage density	9.2150 km/km ²
Length of overland flow	54.257 m

CATCHMENT CLIMATOLOGY

