

Mathal Dam

Location	23.4333° N, 69.1667° E
State	Gujarat
Nearest City	Nakhatrana
Year of Completion	1987
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Dhadoth
Dam Type	Earthfill Embankment
Height above lowest foundation level	21.0 m
Dam length	1603.0 m
Reservoir Area	2800000.0 m ²
Gross storage capacity	10700000.0 m ³
Effective storage capacity	9600000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	5.8 km ²
Perimeter of catchment	10.8 km
Basin Length	4326.6 m
Form factor	0.30749
Circularity ratio	0.61766
Elongation ratio	0.62549
Highest Stream order	4
Max elevation	131.0 m
Min elevation	65.0 m
Mean bifurcation ratio	2.2706
Stream frequency	68.7980 per km ²
Relief	66.00 m
Drainage density	8.4380 km/km ²
Length of overland flow	59.253 m

CATCHMENT CLIMATOLOGY

