

Moralnaka Dam

Location	23.1219° N, 73.9628° E
State	Gujarat
Nearest City	Santrampur
Year of Completion	1986
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Mahi
River	Kotar
Dam Type	Earthfill Embankment
Height above lowest foundation level	27.5 m
Dam length	1237.0 m
Reservoir Area	88000.0 m ²
Gross storage capacity	4098000.0 m ³
Effective storage capacity	3098000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	29.9 km ²
Perimeter of catchment	32.1 km
Basin Length	13477.0 m
Form factor	0.16437
Circularity ratio	0.36418
Elongation ratio	0.45732
Highest Stream order	5
Max elevation	375.0 m
Min elevation	169.0 m
Mean bifurcation ratio	2.3476
Stream frequency	75.2350 per km ²
Relief	206.00 m
Drainage density	10.1210 km/km ²
Length of overland flow	49.403 m

CATCHMENT CLIMATOLOGY

