

Sarmariya Dam

Location	23.0244° N, 74.0894° E
State	Gujarat
Nearest City	Jhalod
Year of Completion	1978
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Mahi
River	Kotar
Dam Type	Earthfill Embankment
Height above lowest foundation level	15.0 m
Dam length	241.0 m
Reservoir Area	150000.0 m ²
Gross storage capacity	648000.0 m ³
Effective storage capacity	518000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	4.6 km ²
Perimeter of catchment	11.0 km
Basin Length	4006.2 m
Form factor	0.28527
Circularity ratio	0.47695
Elongation ratio	0.60247
Highest Stream order	4
Max elevation	378.0 m
Min elevation	300.0 m
Mean bifurcation ratio	2.6235
Stream frequency	76.8820 per km ²
Relief	78.00 m
Drainage density	10.1730 km/km ²
Length of overland flow	49.150 m

CATCHMENT CLIMATOLOGY

