

## Isar Dam

Location	21.3964° N, 73.3133° E
State	Gujarat
Nearest City	Mandavi
Year of Completion	1978
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Tapi
River	Mandavi Khadi
Dam Type	Earthfill Embankment
Height above lowest foundation level	13.6 m
Dam length	1171.0 m
Reservoir Area	1054040.0 m <sup>2</sup>
Gross storage capacity	3930000.0 m <sup>3</sup>
Effective storage capacity	3680000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	9.8 km <sup>2</sup>
Perimeter of catchment	14.0 km
Basin Length	4203.2 m
Form factor	0.55682
Circularity ratio	0.63107
Elongation ratio	0.84172
Highest Stream order	4
Max elevation	149.0 m
Min elevation	84.0 m
Mean bifurcation ratio	2.4426
Stream frequency	72.7830 per km <sup>2</sup>
Relief	65.00 m
Drainage density	9.5990 km/km <sup>2</sup>
Length of overland flow	52.087 m

## CATCHMENT CLIMATOLOGY

