

Madhvipur Dam

Location	22.0614° N, 71.2914° E
State	Gujarat
Nearest City	Jasdan
Year of Completion	1944
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Pat
Dam Type	Earthfill Embankment
Height above lowest foundation level	17.0 m
Dam length	267.0 m
Reservoir Area	1468510.0 m ²
Gross storage capacity	630000.0 m ³
Effective storage capacity	594000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	34.9 km ²
Perimeter of catchment	29.3 km
Basin Length	9716.2 m
Form factor	0.36959
Circularity ratio	0.51094
Elongation ratio	0.68575
Highest Stream order	6
Max elevation	283.0 m
Min elevation	214.0 m
Mean bifurcation ratio	2.2478
Stream frequency	74.7760 per km ²
Relief	69.00 m
Drainage density	9.8770 km/km ²
Length of overland flow	50.625 m

CATCHMENT CLIMATOLOGY

