

Madhuvanti Dam

Location	21.2606° N, 70.4881° E
State	Gujarat
Nearest City	Mendarda
Year of Completion	1974
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Madhuvanti
Dam Type	Earthfill Embankment
Height above lowest foundation level	34.5 m
Dam length	1219.0 m
Reservoir Area	2250000.0 m ²
Gross storage capacity	12140000.0 m ³
Effective storage capacity	11750000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	47.2 km ²
Perimeter of catchment	31.1 km
Basin Length	9579.9 m
Form factor	0.51419
Circularity ratio	0.61492
Elongation ratio	0.80885
Highest Stream order	6
Max elevation	293.0 m
Min elevation	120.0 m
Mean bifurcation ratio	2.6911
Stream frequency	78.8730 per km ²
Relief	173.00 m
Drainage density	10.9390 km/km ²
Length of overland flow	45.707 m

CATCHMENT CLIMATOLOGY

