

Bhagwanjina Muvada Dam

Location	23.5000° N, 73.3833° E
State	Gujarat
Nearest City	Virpur
Year of Completion	1986
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Vehla
Dam Type	Earthfill Embankment
Height above lowest foundation level	13.4 m
Dam length	579.0 m
Reservoir Area	265000.0 m ²
Gross storage capacity	7314000.0 m ³
Effective storage capacity	6510000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	70.7 km ²
Perimeter of catchment	42.9 km
Basin Length	18095.0 m
Form factor	0.21596
Circularity ratio	0.48204
Elongation ratio	0.52420
Highest Stream order	6
Max elevation	220.0 m
Min elevation	139.0 m
Mean bifurcation ratio	2.1918
Stream frequency	71.8370 per km ²
Relief	81.00 m
Drainage density	9.4120 km/km ²
Length of overland flow	53.123 m

CATCHMENT CLIMATOLOGY

