

Machhu I Dam

Location	22.4667° N, 70.9689° E
State	Gujarat
Nearest City	Wankaner
Year of Completion	1960
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Machhu
Dam Type	Other
Height above lowest foundation level	27.4 m
Dam length	1441.0 m
Reservoir Area	20230000.0 m ²
Gross storage capacity	68950000.0 m ³
Effective storage capacity	68950000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	737.1 km ²
Perimeter of catchment	132.7 km
Basin Length	43018.0 m
Form factor	0.39830
Circularity ratio	0.52583
Elongation ratio	0.71189
Highest Stream order	7
Max elevation	338.0 m
Min elevation	112.0 m
Mean bifurcation ratio	2.1733
Stream frequency	73.7890 per km ²
Relief	226.00 m
Drainage density	9.8850 km/km ²
Length of overland flow	50.583 m

CATCHMENT CLIMATOLOGY

