

Watrak Dam

Location	23.3139° N, 73.4069° E
State	Gujarat
Nearest City	Malpur
Year of Completion	1983
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Watrak
Dam Type	Rock fill Embankment
Height above lowest foundation level	43.3 m
Dam length	313.0 m
Reservoir Area	44750000.0 m ²
Gross storage capacity	176900000.0 m ³
Effective storage capacity	154300000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	1150.0 km ²
Perimeter of catchment	184.5 km
Basin Length	63639.0 m
Form factor	0.28395
Circularity ratio	0.42481
Elongation ratio	0.60108
Highest Stream order	8
Max elevation	375.0 m
Min elevation	111.0 m
Mean bifurcation ratio	2.5383
Stream frequency	71.0790 per km ²
Relief	264.00 m
Drainage density	9.2390 km/km ²
Length of overland flow	54.119 m

CATCHMENT CLIMATOLOGY

