

Madhapar Lower Dam

Location	23.2719° N, 69.6483° E
State	Gujarat
Nearest City	Bhuj
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	16.2 m
Dam length	162.0 m
Reservoir Area	265000.0 m ²
Gross storage capacity	11280000.0 m ³
Effective storage capacity	948000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	179.3 km ²
Perimeter of catchment	72.2 km
Basin Length	21266.0 m
Form factor	0.39654
Circularity ratio	0.43207
Elongation ratio	0.71032
Highest Stream order	7
Max elevation	271.0 m
Min elevation	71.0 m
Mean bifurcation ratio	2.4688
Stream frequency	76.7540 per km ²
Relief	200.00 m
Drainage density	10.4080 km/km ²
Length of overland flow	48.039 m

CATCHMENT CLIMATOLOGY

