

Malpara Dam

Location	21.8631° N, 71.5436° E
State	Gujarat
Nearest City	Gadhada
Year of Completion	1996
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Sitapari
Dam Type	Earthfill Embankment
Height above lowest foundation level	11.3 m
Dam length	2832.3 m
Reservoir Area	4300000.0 m ²
Gross storage capacity	6900000.0 m ³
Effective storage capacity	6400000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	116.6 km ²
Perimeter of catchment	51.1 km
Basin Length	19652.0 m
Form factor	0.30180
Circularity ratio	0.56080
Elongation ratio	0.61968
Highest Stream order	7
Max elevation	291.0 m
Min elevation	73.0 m
Mean bifurcation ratio	2.1564
Stream frequency	69.5290 per km ²
Relief	218.00 m
Drainage density	9.0400 km/km ²
Length of overland flow	55.307 m

CATCHMENT CLIMATOLOGY

