

## Mewasa Dam

Location	22.4131° N, 70.7278° E
State	Gujarat
Nearest City	Kajar
Year of Completion	1961
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Ranotan Nadi
Dam Type	Earthfill Embankment
Height above lowest foundation level	21.5 m
Dam length	878.0 m
Reservoir Area	906548.0 m <sup>2</sup>
Gross storage capacity	2458000.0 m <sup>3</sup>
Effective storage capacity	2137000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	52.7 km <sup>2</sup>
Perimeter of catchment	37.3 km
Basin Length	14434.0 m
Form factor	0.25280
Circularity ratio	0.47505
Elongation ratio	0.56715
Highest Stream order	5
Max elevation	152.0 m
Min elevation	86.0 m
Mean bifurcation ratio	2.1460
Stream frequency	70.6160 per km <sup>2</sup>
Relief	66.00 m
Drainage density	8.9330 km/km <sup>2</sup>
Length of overland flow	55.972 m

## CATCHMENT CLIMATOLOGY

