

## Chhaparvadi-I Dam

Location	21.8886° N, 70.6233° E
State	Gujarat
Nearest City	Jetpur
Year of Completion	1980
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Chhaparvadi
Dam Type	Other
Height above lowest foundation level	24.1 m
Dam length	471.0 m
Reservoir Area	4032000.0 m <sup>2</sup>
Gross storage capacity	16610000.0 m <sup>3</sup>
Effective storage capacity	15260000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	381.0 km <sup>2</sup>
Perimeter of catchment	99.5 km
Basin Length	35424.0 m
Form factor	0.30359
Circularity ratio	0.48341
Elongation ratio	0.62152
Highest Stream order	7
Max elevation	200.0 m
Min elevation	81.0 m
Mean bifurcation ratio	2.1499
Stream frequency	71.1310 per km <sup>2</sup>
Relief	119.00 m
Drainage density	9.3720 km/km <sup>2</sup>
Length of overland flow	53.351 m

## CATCHMENT CLIMATOLOGY

