

## Virani Dam

Location	23.1331° N, 69.3811° E
State	Gujarat
Nearest City	Mandvi
Year of Completion	1970
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Mandvi
Dam Type	Earthfill Embankment
Height above lowest foundation level	14.9 m
Dam length	932.0 m
Reservoir Area	204000.0 m <sup>2</sup>
Gross storage capacity	660000.0 m <sup>3</sup>
Effective storage capacity	600000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	4.3 km <sup>2</sup>
Perimeter of catchment	10.0 km
Basin Length	3596.2 m
Form factor	0.33319
Circularity ratio	0.53797
Elongation ratio	0.65111
Highest Stream order	4
Max elevation	203.0 m
Min elevation	145.0 m
Mean bifurcation ratio	2.1279
Stream frequency	81.2260 per km <sup>2</sup>
Relief	58.00 m
Drainage density	10.5300 km/km <sup>2</sup>
Length of overland flow	47.485 m

## CATCHMENT CLIMATOLOGY

