

## Vartu-I Dam

Location	22.0211° N, 69.8108° E
State	Gujarat
Nearest City	Bhanvad
Year of Completion	1968
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Vartu
Dam Type	Other
Height above lowest foundation level	28.3 m
Dam length	1981.0 m
Reservoir Area	3430000.0 m <sup>2</sup>
Gross storage capacity	13300000.0 m <sup>3</sup>
Effective storage capacity	11620000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	142.6 km <sup>2</sup>
Perimeter of catchment	63.7 km
Basin Length	19257.0 m
Form factor	0.38444
Circularity ratio	0.44233
Elongation ratio	0.69940
Highest Stream order	7
Max elevation	312.0 m
Min elevation	57.0 m
Mean bifurcation ratio	2.3604
Stream frequency	72.0880 per km <sup>2</sup>
Relief	255.00 m
Drainage density	9.5290 km/km <sup>2</sup>
Length of overland flow	52.473 m

## CATCHMENT CLIMATOLOGY

Data not available.