

Umiyasagar Dam

Location	21.8794° N, 70.0992° E
State	Gujarat
Nearest City	Jamjodhpur
Year of Completion	2009
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Venu
Dam Type	Earthfill Embankment
Height above lowest foundation level	16.4 m
Dam length	1050.0 m
Reservoir Area	510000.0 m ²
Gross storage capacity	1550000.0 m ³
Effective storage capacity	1138000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	514.5 km ²
Perimeter of catchment	138.4 km
Basin Length	32611.0 m
Form factor	0.48377
Circularity ratio	0.33776
Elongation ratio	0.78456
Highest Stream order	8
Max elevation	258.0 m
Min elevation	60.0 m
Mean bifurcation ratio	2.3328
Stream frequency	72.8410 per km ²
Relief	198.00 m
Drainage density	9.7250 km/km ²
Length of overland flow	51.412 m

CATCHMENT CLIMATOLOGY

