

Morarji Desai Setu Dam

Location	21.2181° N, 72.8047° E
State	Gujarat
Nearest City	Surat
Year of Completion	1995
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Tapi
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Dam Type	Other
Height above lowest foundation level	16.0 m
Dam length	580.0 m
Reservoir Area	18000000.0 m ²
Gross storage capacity	31000000.0 m ³
Effective storage capacity	31000000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	63916.0 km ²
Perimeter of catchment	2049.4 km
Basin Length	611910.0 m
Form factor	0.17070
Circularity ratio	0.19128
Elongation ratio	0.46604
Highest Stream order	11
Max elevation	1483.0 m
Min elevation	-22.0 m
Mean bifurcation ratio	2.1379
Stream frequency	74.5480 per km ²
Relief	1505.00 m
Drainage density	10.2040 km/km ²
Length of overland flow	49.002 m

CATCHMENT CLIMATOLOGY

