

Raningpar Dam

Location	22.2436° N, 71.0933° E
State	Gujarat
Nearest City	Jasdan
Year of Completion	1987
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	T-Machhu
Dam Type	Earthfill Embankment
Height above lowest foundation level	17.8 m
Dam length	1780.0 m
Reservoir Area	1200000.0 m ²
Gross storage capacity	2930000.0 m ³
Effective storage capacity	2240000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	81.1 km ²
Perimeter of catchment	41.9 km
Basin Length	14105.0 m
Form factor	0.40774
Circularity ratio	0.58041
Elongation ratio	0.72028
Highest Stream order	6
Max elevation	311.0 m
Min elevation	208.0 m
Mean bifurcation ratio	2.2162
Stream frequency	74.1020 per km ²
Relief	103.00 m
Drainage density	9.9650 km/km ²
Length of overland flow	50.174 m

CATCHMENT CLIMATOLOGY

