

Ratanpar Dam

Location	23.8775° N, 70.3558° E
State	Gujarat
Nearest City	Bhachau
Year of Completion	1974
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local River
Dam Type	Earthfill Embankment
Height above lowest foundation level	24.7 m
Dam length	1036.6 m
Reservoir Area	41366.0 m ²
Gross storage capacity	490000.0 m ³
Effective storage capacity	490000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	5.8 km ²
Perimeter of catchment	12.2 km
Basin Length	4745.7 m
Form factor	0.25951
Circularity ratio	0.49672
Elongation ratio	0.57463
Highest Stream order	4
Max elevation	234.0 m
Min elevation	47.0 m
Mean bifurcation ratio	2.4063
Stream frequency	92.5630 per km ²
Relief	187.00 m
Drainage density	12.9790 km/km ²
Length of overland flow	38.523 m

CATCHMENT CLIMATOLOGY

