

Raniporda Dam

Location	22.8611° N, 73.1764° E
State	Gujarat
Nearest City	Thasara
Year of Completion	1948
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Vehla
Dam Type	Earthfill Embankment
Height above lowest foundation level	11.0 m
Dam length	1640.0 m
Reservoir Area	965819.0 m ²
Gross storage capacity	17450000.0 m ³
Effective storage capacity	1727000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	16.7 km ²
Perimeter of catchment	16.3 km
Basin Length	5811.4 m
Form factor	0.49533
Circularity ratio	0.78918
Elongation ratio	0.79389
Highest Stream order	5
Max elevation	87.0 m
Min elevation	62.0 m
Mean bifurcation ratio	2.9151
Stream frequency	73.1680 per km ²
Relief	25.00 m
Drainage density	9.6070 km/km ²
Length of overland flow	52.047 m

CATCHMENT CLIMATOLOGY

