

## Ranipat Dam

Location	22.6756° N, 71.2192° E
State	Gujarat
Nearest City	Muli
Year of Completion	1975
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Balal
Dam Type	Earthfill Embankment
Height above lowest foundation level	29.5 m
Dam length	3197.0 m
Reservoir Area	1890385.0 m <sup>2</sup>
Gross storage capacity	9920000.0 m <sup>3</sup>
Effective storage capacity	8030000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	96.2 km <sup>2</sup>
Perimeter of catchment	45.9 km
Basin Length	15741.0 m
Form factor	0.38840
Circularity ratio	0.57418
Elongation ratio	0.70299
Highest Stream order	6
Max elevation	178.0 m
Min elevation	108.0 m
Mean bifurcation ratio	2.1494
Stream frequency	74.8630 per km <sup>2</sup>
Relief	70.00 m
Drainage density	9.9300 km/km <sup>2</sup>
Length of overland flow	50.354 m

## CATCHMENT CLIMATOLOGY

