

## Gelda Dam

Location	22.7158° N, 70.4853° E
State	Gujarat
Nearest City	Mundra
Year of Completion	2009
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Gelda
Dam Type	Earthfill Embankment
Height above lowest foundation level	12.8 m
Dam length	900.0 m
Reservoir Area	932000.0 m <sup>2</sup>
Gross storage capacity	2434000.0 m <sup>3</sup>
Effective storage capacity	2434000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	1794.2 km <sup>2</sup>
Perimeter of catchment	241.0 km
Basin Length	87207.0 m
Form factor	0.23592
Circularity ratio	0.38819
Elongation ratio	0.54789
Highest Stream order	9
Max elevation	244.0 m
Min elevation	10.0 m
Mean bifurcation ratio	2.0572
Stream frequency	69.0170 per km <sup>2</sup>
Relief	234.00 m
Drainage density	8.9370 km/km <sup>2</sup>
Length of overland flow	55.949 m

## CATCHMENT CLIMATOLOGY

