

## Barnai Reservoir Dam

Location	22.9008° N, 83.1758° E
State	Chhattisgarh
Nearest City	Ambikapur
Year of Completion	2007
Operated and Maintained by	Chhattisgarh Water Resources Department
River Basin	Ganga
River	Barnai
Dam Type	Earthfill Embankment
Height above lowest foundation level	24.7 m
Dam length	2010.0 m
Reservoir Area	1226000.0 m <sup>2</sup>
Gross storage capacity	1200000.0 m <sup>3</sup>
Effective storage capacity	1150000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	28.3 km <sup>2</sup>
Perimeter of catchment	25.8 km
Basin Length	8517.3 m
Form factor	0.38991
Circularity ratio	0.53550
Elongation ratio	0.70435
Highest Stream order	6
Max elevation	1160.0 m
Min elevation	599.0 m
Mean bifurcation ratio	3.3901
Stream frequency	86.8980 per km <sup>2</sup>
Relief	561.00 m
Drainage density	12.4410 km/km <sup>2</sup>
Length of overland flow	40.190 m

## CATCHMENT CLIMATOLOGY

