

Gayapathara Dam

Location	20.3078° N, 85.2669° E
State	Odisha
Nearest City	Nayagarh
Year of Completion	1988
Operated and Maintained by	Odisha Water Resources Department
River Basin	Mahanadi
River	Gayapathar Nalla
Dam Type	Earthfill Embankment
Height above lowest foundation level	13.7 m
Dam length	1393.5 m
Reservoir Area	260000.0 m ²
Gross storage capacity	720000.0 m ³
Effective storage capacity	530000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	2.1 km ²
Perimeter of catchment	7.6 km
Basin Length	2677.4 m
Form factor	0.29624
Circularity ratio	0.45880
Elongation ratio	0.61394
Highest Stream order	3
Max elevation	351.0 m
Min elevation	66.0 m
Mean bifurcation ratio	2.6783
Stream frequency	86.6470 per km ²
Relief	285.00 m
Drainage density	11.6730 km/km ²
Length of overland flow	42.834 m

CATCHMENT CLIMATOLOGY

