

## Modanalla M.I.P Dam

Location	20.2974° N, 85.0966° E
State	Odisha
Nearest City	Khandapada
Year of Completion	1975
Operated and Maintained by	Odisha Water Resources Department
River Basin	Mahanadi
River	Modanalla
Dam Type	Earthfill Embankment
Height above lowest foundation level	17.7 m
Dam length	412.5 m
Reservoir Area	817000.0 m <sup>2</sup>
Gross storage capacity	3646000.0 m <sup>3</sup>
Effective storage capacity	2844000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	31.9 km <sup>2</sup>
Perimeter of catchment	24.9 km
Basin Length	6408.9 m
Form factor	0.77657
Circularity ratio	0.64753
Elongation ratio	0.99403
Highest Stream order	6
Max elevation	707.0 m
Min elevation	89.0 m
Mean bifurcation ratio	2.5097
Stream frequency	88.3160 per km <sup>2</sup>
Relief	618.00 m
Drainage density	13.1050 km/km <sup>2</sup>
Length of overland flow	38.153 m

## CATCHMENT CLIMATOLOGY

