

Masaria Dam

Location	23.2056° N, 84.5597° E
State	Jharkhand
Nearest City	Gumla
Year of Completion	1983
Operated and Maintained by	Jharkhand Water Resources Department
River Basin	Brahmani
River	Masaria.
Dam Type	Earthfill Embankment
Height above lowest foundation level	21.5 m
Dam length	807.9 m
Reservoir Area	740000.0 m ²
Gross storage capacity	3552000.0 m ³
Effective storage capacity	3158000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	12.0 km ²
Perimeter of catchment	14.2 km
Basin Length	4112.8 m
Form factor	0.70872
Circularity ratio	0.74711
Elongation ratio	0.94961
Highest Stream order	5
Max elevation	740.0 m
Min elevation	611.0 m
Mean bifurcation ratio	2.7866
Stream frequency	82.6640 per km ²
Relief	129.00 m
Drainage density	11.4810 km/km ²
Length of overland flow	43.552 m

CATCHMENT CLIMATOLOGY

