

Buchaopa Dam

Location	23.4986° N, 84.9453° E
State	Jharkhand
Nearest City	Ranchi
Year of Completion	1957
Operated and Maintained by	Jharkhand Water Resources Department
River Basin	Brahmani
River	Buchaopa Nala.
Dam Type	Earthfill Embankment
Height above lowest foundation level	24.0 m
Dam length	1067.0 m
Reservoir Area	20000.0 m ²
Gross storage capacity	2840000.0 m ³
Effective storage capacity	2400000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	13.4 km ²
Perimeter of catchment	15.8 km
Basin Length	5304.0 m
Form factor	0.47619
Circularity ratio	0.67042
Elongation ratio	0.77839
Highest Stream order	5
Max elevation	713.0 m
Min elevation	656.0 m
Mean bifurcation ratio	2.3703
Stream frequency	80.3220 per km ²
Relief	57.00 m
Drainage density	10.7300 km/km ²
Length of overland flow	46.600 m

CATCHMENT CLIMATOLOGY

