

Lotia Dam

Location	24.1519° N, 85.3869° E
State	Jharkhand
Nearest City	Hazaribagh
Year of Completion	1978
Operated and Maintained by	Jharkhand Water Resources Department
River Basin	Subarnarekha
River	Chondhi
Dam Type	Earthfill Embankment
Height above lowest foundation level	19.5 m
Dam length	762.2 m
Reservoir Area	1060000.0 m ²
Gross storage capacity	5500000.0 m ³
Effective storage capacity	4640000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	38.6 km ²
Perimeter of catchment	27.8 km
Basin Length	9181.2 m
Form factor	0.45733
Circularity ratio	0.62792
Elongation ratio	0.76282
Highest Stream order	6
Max elevation	605.0 m
Min elevation	477.0 m
Mean bifurcation ratio	3.8949
Stream frequency	73.7740 per km ²
Relief	128.00 m
Drainage density	9.5820 km/km ²
Length of overland flow	52.179 m

CATCHMENT CLIMATOLOGY

