

Palna Dam

Location	22.9442° N, 85.9369° E
State	Jharkhand
Nearest City	Saraikela Kharsawan
Year of Completion	1987
Operated and Maintained by	Jharkhand Water Resources Department
River Basin	Subarnarekha
River	Ranka Jhuria.
Dam Type	Earthfill Embankment
Height above lowest foundation level	28.7 m
Dam length	381.1 m
Reservoir Area	1559000.0 m ²
Gross storage capacity	12420000.0 m ³
Effective storage capacity	11350000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	29.7 km ²
Perimeter of catchment	25.7 km
Basin Length	8219.7 m
Form factor	0.43934
Circularity ratio	0.56520
Elongation ratio	0.74767
Highest Stream order	5
Max elevation	712.0 m
Min elevation	205.0 m
Mean bifurcation ratio	2.4129
Stream frequency	85.1650 per km ²
Relief	507.00 m
Drainage density	12.1580 km/km ²
Length of overland flow	41.126 m

CATCHMENT CLIMATOLOGY

