

Sonpur -1 Dam

Location	20.3525° N, 81.5883° E
State	Chhattisgarh
Nearest City	Kanker
Year of Completion	1979
Operated and Maintained by	Chhattisgarh Water Resources Department
River Basin	Mahanadi
River	Local Nalla
Dam Type	Earthfill Embankment
Height above lowest foundation level	10.4 m
Dam length	792.0 m
Reservoir Area	237000.0 m ²
Gross storage capacity	841000.0 m ³
Effective storage capacity	753000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	2.1 km ²
Perimeter of catchment	7.2 km
Basin Length	2330.8 m
Form factor	0.39431
Circularity ratio	0.52607
Elongation ratio	0.70831
Highest Stream order	4
Max elevation	495.0 m
Min elevation	418.0 m
Mean bifurcation ratio	2.3271
Stream frequency	77.9620 per km ²
Relief	77.00 m
Drainage density	10.4040 km/km ²
Length of overland flow	48.060 m

CATCHMENT CLIMATOLOGY

