

Sonua Dam

Location	22.6194° N, 85.3875° E
State	Jharkhand
Nearest City	Chakardharpur
Year of Completion	2009
Operated and Maintained by	Jharkhand Water Resources Department
River Basin	Subarnarekha
River	Sanjay Nala.
Dam Type	Earthfill Embankment
Height above lowest foundation level	36.3 m
Dam length	640.0 m
Reservoir Area	3522000.0 m ²
Gross storage capacity	368800000.0 m ³
Effective storage capacity	31320000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	116.1 km ²
Perimeter of catchment	55.2 km
Basin Length	12128.0 m
Form factor	0.78895
Circularity ratio	0.47811
Elongation ratio	1.00190
Highest Stream order	7
Max elevation	852.0 m
Min elevation	322.0 m
Mean bifurcation ratio	12.8640
Stream frequency	83.6650 per km ²
Relief	530.00 m
Drainage density	11.9930 km/km ²
Length of overland flow	41.692 m

CATCHMENT CLIMATOLOGY

