

## Gatalsud Dam

Location	23.4569° N, 85.5547° E
State	Jharkhand
Nearest City	Ranchi
Year of Completion	1971
Operated and Maintained by	Jharkhand Water Resources Department
River Basin	Subarnarekha
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Dam Type	Earthfill Embankment
Height above lowest foundation level	40.2 m
Dam length	5616.8 m
Reservoir Area	34380000.0 m <sup>2</sup>
Gross storage capacity	288760000.0 m <sup>3</sup>
Effective storage capacity	230760000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	766.8 km <sup>2</sup>
Perimeter of catchment	166.4 km
Basin Length	46495.0 m
Form factor	0.35470
Circularity ratio	0.34820
Elongation ratio	0.67180
Highest Stream order	8
Max elevation	1025.0 m
Min elevation	548.0 m
Mean bifurcation ratio	2.3263
Stream frequency	77.8490 per km <sup>2</sup>
Relief	477.00 m
Drainage density	10.7420 km/km <sup>2</sup>
Length of overland flow	46.545 m

## CATCHMENT CLIMATOLOGY

