

## Sonaria Dam

Location	23.2469° N, 74.4631° E
State	Rajasthan
Nearest City	Kushalgarh
Year of Completion	1997
Operated and Maintained by	Rajasthan Water Resources Department
River Basin	Mahi
River	Local Nallah
Dam Type	Earthfill Embankment
Height above lowest foundation level	20.1 m
Dam length	620.0 m
Reservoir Area	564000.0 m <sup>2</sup>
Gross storage capacity	4250000.0 m <sup>3</sup>
Effective storage capacity	3770000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	17.1 km <sup>2</sup>
Perimeter of catchment	20.3 km
Basin Length	5644.0 m
Form factor	0.53578
Circularity ratio	0.52288
Elongation ratio	0.82566
Highest Stream order	6
Max elevation	568.0 m
Min elevation	317.0 m
Mean bifurcation ratio	2.2629
Stream frequency	76.5790 per km <sup>2</sup>
Relief	251.00 m
Drainage density	10.2700 km/km <sup>2</sup>
Length of overland flow	48.684 m

## CATCHMENT CLIMATOLOGY

