

Machhanala Dam

Location	23.0575° N, 74.1781° E
State	Gujarat
Nearest City	Jhalod
Year of Completion	1992
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Mahi
River	Machhan
Dam Type	Other
Height above lowest foundation level	25.4 m
Dam length	2100.0 m
Reservoir Area	7960000.0 m ²
Gross storage capacity	37910000.0 m ³
Effective storage capacity	29160000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	251.3 km ²
Perimeter of catchment	76.4 km
Basin Length	21327.0 m
Form factor	0.55238
Circularity ratio	0.54119
Elongation ratio	0.83836
Highest Stream order	7
Max elevation	393.0 m
Min elevation	242.0 m
Mean bifurcation ratio	2.3201
Stream frequency	75.0230 per km ²
Relief	151.00 m
Drainage density	10.0870 km/km ²
Length of overland flow	49.570 m

CATCHMENT CLIMATOLOGY

