

Machhundri Dam

Location	20.9794° N, 70.9314° E
State	Gujarat
Nearest City	Una.
Year of Completion	1980
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Machhundri
Dam Type	Earthfill Embankment
Height above lowest foundation level	35.8 m
Dam length	2033.0 m
Reservoir Area	4470000.0 m ²
Gross storage capacity	31840000.0 m ³
Effective storage capacity	26370000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	211.3 km ²
Perimeter of catchment	75.3 km
Basin Length	24170.0 m
Form factor	0.36165
Circularity ratio	0.46789
Elongation ratio	0.67835
Highest Stream order	7
Max elevation	462.0 m
Min elevation	84.0 m
Mean bifurcation ratio	2.2353
Stream frequency	74.5220 per km ²
Relief	378.00 m
Drainage density	10.1060 km/km ²
Length of overland flow	49.474 m

CATCHMENT CLIMATOLOGY

