

Malgadh Dam

Location	22.0206° N, 71.4211° E
State	Gujarat
Nearest City	Jasdan
Year of Completion	1985
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Ghelo
Dam Type	Earthfill Embankment
Height above lowest foundation level	24.8 m
Dam length	2260.0 m
Reservoir Area	1040000.0 m ²
Gross storage capacity	2645000.0 m ³
Effective storage capacity	2535000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	32.2 km ²
Perimeter of catchment	30.3 km
Basin Length	12518.0 m
Form factor	0.20565
Circularity ratio	0.44059
Elongation ratio	0.51153
Highest Stream order	5
Max elevation	252.0 m
Min elevation	142.0 m
Mean bifurcation ratio	2.0410
Stream frequency	72.2430 per km ²
Relief	110.00 m
Drainage density	9.4200 km/km ²
Length of overland flow	53.078 m

CATCHMENT CLIMATOLOGY

