

Malan Dam

Location	21.2231° N, 71.6250° E
State	Gujarat
Nearest City	Mahuva
Year of Completion	1954
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Malan
Dam Type	Earthfill Embankment
Height above lowest foundation level	22.6 m
Dam length	1450.0 m
Reservoir Area	9000000.0 m ²
Gross storage capacity	16170000.0 m ³
Effective storage capacity	15420000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	120.8 km ²
Perimeter of catchment	47.6 km
Basin Length	14694.0 m
Form factor	0.55951
Circularity ratio	0.66964
Elongation ratio	0.84375
Highest Stream order	6
Max elevation	245.0 m
Min elevation	87.0 m
Mean bifurcation ratio	2.3616
Stream frequency	69.2170 per km ²
Relief	158.00 m
Drainage density	8.9060 km/km ²
Length of overland flow	56.140 m

CATCHMENT CLIMATOLOGY

