

Dedhia Dam

Location	23.0022° N, 69.1431° E
State	Gujarat
Nearest City	Mandavi
Year of Completion	1961
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local Stream
Dam Type	Earthfill Embankment
Height above lowest foundation level	13.0 m
Dam length	2021.3 m
Reservoir Area	1157000.0 m ²
Gross storage capacity	2940000.0 m ³
Effective storage capacity	2510000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	31.6 km ²
Perimeter of catchment	29.8 km
Basin Length	11590.0 m
Form factor	0.23494
Circularity ratio	0.44730
Elongation ratio	0.54675
Highest Stream order	6
Max elevation	163.0 m
Min elevation	28.0 m
Mean bifurcation ratio	3.6068
Stream frequency	74.8080 per km ²
Relief	135.00 m
Drainage density	9.9100 km/km ²
Length of overland flow	50.456 m

CATCHMENT CLIMATOLOGY

