

Umrapar Dam

Location	23.4356° N, 69.2117° E
State	Gujarat
Nearest City	Nakhatrana
Year of Completion	1979
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Parelwadi Nadi
Dam Type	Earthfill Embankment
Height above lowest foundation level	27.1 m
Dam length	1104.0 m
Reservoir Area	218282.0 m ²
Gross storage capacity	1020000.0 m ³
Effective storage capacity	1020000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	17.7 km ²
Perimeter of catchment	17.9 km
Basin Length	6699.4 m
Form factor	0.39523
Circularity ratio	0.69925
Elongation ratio	0.70915
Highest Stream order	5
Max elevation	209.0 m
Min elevation	71.0 m
Mean bifurcation ratio	2.1371
Stream frequency	81.0660 per km ²
Relief	138.00 m
Drainage density	10.8300 km/km ²
Length of overland flow	46.166 m

CATCHMENT CLIMATOLOGY

