

Umarala Dam

Location	22.0486° N, 70.2831° E
State	Gujarat
Nearest City	Kalavad
Year of Completion	1988
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local Voklo
Dam Type	Earthfill Embankment
Height above lowest foundation level	14.8 m
Dam length	80.0 m
Reservoir Area	414887.0 m ²
Gross storage capacity	1600000.0 m ³
Effective storage capacity	1340000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	30.6 km ²
Perimeter of catchment	28.9 km
Basin Length	8350.2 m
Form factor	0.43902
Circularity ratio	0.46010
Elongation ratio	0.74739
Highest Stream order	5
Max elevation	249.0 m
Min elevation	131.0 m
Mean bifurcation ratio	2.3555
Stream frequency	75.8880 per km ²
Relief	118.00 m
Drainage density	10.1920 km/km ²
Length of overland flow	49.059 m

CATCHMENT CLIMATOLOGY

