

Vaghvadarada Dam

Location	21.2717° N, 71.7472° E
State	Gujarat
Nearest City	Mahuva
Year of Completion	1983
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local Stream
Dam Type	Earthfill Embankment
Height above lowest foundation level	10.2 m
Dam length	809.0 m
Reservoir Area	140000.0 m ²
Gross storage capacity	290000.0 m ³
Effective storage capacity	290000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	4.2 km ²
Perimeter of catchment	9.6 km
Basin Length	3374.4 m
Form factor	0.37193
Circularity ratio	0.58037
Elongation ratio	0.68793
Highest Stream order	4
Max elevation	175.0 m
Min elevation	115.0 m
Mean bifurcation ratio	2.5526
Stream frequency	76.0310 per km ²
Relief	60.00 m
Drainage density	9.4590 km/km ²
Length of overland flow	52.862 m

CATCHMENT CLIMATOLOGY

