

Muvalia Dam

Location	22.8133° N, 74.2364° E
State	Gujarat
Nearest City	Dahod
Year of Completion	1911
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Mahi
River	Dudhimoti
Dam Type	Earthfill Embankment
Height above lowest foundation level	20.0 m
Dam length	544.0 m
Reservoir Area	1459369.0 m ²
Gross storage capacity	6763000.0 m ³
Effective storage capacity	4036000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	91.3 km ²
Perimeter of catchment	49.3 km
Basin Length	16396.0 m
Form factor	0.33948
Circularity ratio	0.47195
Elongation ratio	0.65723
Highest Stream order	6
Max elevation	480.0 m
Min elevation	296.0 m
Mean bifurcation ratio	2.2997
Stream frequency	74.6630 per km ²
Relief	184.00 m
Drainage density	9.9300 km/km ²
Length of overland flow	50.354 m

CATCHMENT CLIMATOLOGY

