

Ekalia Dam

Location	21.6917° N, 71.8792° E
State	Gujarat
Nearest City	Sihor
Year of Completion	1963
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Local Stream
Dam Type	Earthfill Embankment
Height above lowest foundation level	17.0 m
Dam length	314.0 m
Reservoir Area	581257.0 m ²
Gross storage capacity	2680000.0 m ³
Effective storage capacity	2570000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	26.5 km ²
Perimeter of catchment	22.6 km
Basin Length	6124.0 m
Form factor	0.70570
Circularity ratio	0.65412
Elongation ratio	0.94759
Highest Stream order	5
Max elevation	147.0 m
Min elevation	55.0 m
Mean bifurcation ratio	2.5766
Stream frequency	75.2670 per km ²
Relief	92.00 m
Drainage density	10.1300 km/km ²
Length of overland flow	49.360 m

CATCHMENT CLIMATOLOGY

