

Ratadia Dam

Location	21.2167° N, 71.4000° E
State	Gujarat
Nearest City	Kundla
Year of Completion	2005
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Koliyar
Dam Type	Earthfill Embankment
Height above lowest foundation level	27.3 m
Dam length	160.0 m
Reservoir Area	2209500.0 m ²
Gross storage capacity	1300000.0 m ³
Effective storage capacity	1115000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	4.1 km ²
Perimeter of catchment	9.2 km
Basin Length	3473.5 m
Form factor	0.33630
Circularity ratio	0.59774
Elongation ratio	0.65414
Highest Stream order	4
Max elevation	162.0 m
Min elevation	128.0 m
Mean bifurcation ratio	2.2090
Stream frequency	69.7480 per km ²
Relief	34.00 m
Drainage density	8.5420 km/km ²
Length of overland flow	58.536 m

CATCHMENT CLIMATOLOGY

