

Dhatarwadi-I Dam

Location	21.1267° N, 71.4308° E
State	Gujarat
Nearest City	Rajula
Year of Completion	1974
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Dhatarwadi
Dam Type	Earthfill Embankment
Height above lowest foundation level	25.0 m
Dam length	5258.0 m
Reservoir Area	4400000.0 m ²
Gross storage capacity	26920000.0 m ³
Effective storage capacity	24630000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	586.6 km ²
Perimeter of catchment	129.1 km
Basin Length	34300.0 m
Form factor	0.49860
Circularity ratio	0.44257
Elongation ratio	0.79650
Highest Stream order	8
Max elevation	421.0 m
Min elevation	60.0 m
Mean bifurcation ratio	8.7272
Stream frequency	69.6070 per km ²
Relief	361.00 m
Drainage density	9.1590 km/km ²
Length of overland flow	54.590 m

CATCHMENT CLIMATOLOGY

