

Hiran-I Dam

Location	21.1967° N, 70.6650° E
State	Gujarat
Nearest City	Gir Reserved Forest
Year of Completion	1959
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Hiran
Dam Type	Earthfill Embankment
Height above lowest foundation level	26.2 m
Dam length	1304.6 m
Reservoir Area	3350000.0 m ²
Gross storage capacity	20226000.0 m ³
Effective storage capacity	19639000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	35.6 km ²
Perimeter of catchment	34.6 km
Basin Length	11010.0 m
Form factor	0.29384
Circularity ratio	0.37366
Elongation ratio	0.61146
Highest Stream order	6
Max elevation	380.0 m
Min elevation	174.0 m
Mean bifurcation ratio	2.3346
Stream frequency	75.4330 per km ²
Relief	206.00 m
Drainage density	10.1290 km/km ²
Length of overland flow	49.365 m

CATCHMENT CLIMATOLOGY

