

Goyala Dam

Location	23.4469° N, 68.8411° E
State	Gujarat
Nearest City	Abdasa
Year of Completion	1978
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Sugandhi
Dam Type	Earthfill Embankment
Height above lowest foundation level	11.8 m
Dam length	1318.0 m
Reservoir Area	708814.0 m ²
Gross storage capacity	3030000.0 m ³
Effective storage capacity	2390000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	161.9 km ²
Perimeter of catchment	67.2 km
Basin Length	21219.0 m
Form factor	0.35964
Circularity ratio	0.45075
Elongation ratio	0.67646
Highest Stream order	7
Max elevation	229.0 m
Min elevation	22.0 m
Mean bifurcation ratio	2.1064
Stream frequency	75.7780 per km ²
Relief	207.00 m
Drainage density	10.1790 km/km ²
Length of overland flow	49.120 m

CATCHMENT CLIMATOLOGY

