

Arrni Dam

Location	21.9242° N, 70.2619° E
State	Gujarat
Nearest City	Upleta
Year of Completion	1987
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	T-Bhadr
Dam Type	Earthfill Embankment
Height above lowest foundation level	11.2 m
Dam length	1120.0 m
Reservoir Area	515800.0 m ²
Gross storage capacity	1060000.0 m ³
Effective storage capacity	940000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	14.0 km ²
Perimeter of catchment	17.4 km
Basin Length	5629.5 m
Form factor	0.44242
Circularity ratio	0.58538
Elongation ratio	0.75028
Highest Stream order	5
Max elevation	170.0 m
Min elevation	103.0 m
Mean bifurcation ratio	2.4014
Stream frequency	71.3930 per km ²
Relief	67.00 m
Drainage density	9.0410 km/km ²
Length of overland flow	55.302 m

CATCHMENT CLIMATOLOGY

