

Bharapar Dam

Location	23.3039° N, 68.9881° E
State	Gujarat
Nearest City	Abdasa
Year of Completion	1970
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Naliya
Dam Type	Earthfill Embankment
Height above lowest foundation level	13.4 m
Dam length	738.0 m
Reservoir Area	147616.0 m ²
Gross storage capacity	103000.0 m ³
Effective storage capacity	103000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	29.9 km ²
Perimeter of catchment	35.2 km
Basin Length	14035.0 m
Form factor	0.15195
Circularity ratio	0.30311
Elongation ratio	0.43970
Highest Stream order	5
Max elevation	141.0 m
Min elevation	45.0 m
Mean bifurcation ratio	2.1159
Stream frequency	71.2270 per km ²
Relief	96.00 m
Drainage density	8.9830 km/km ²
Length of overland flow	55.658 m

CATCHMENT CLIMATOLOGY

