

Phopal I Dam

Location	21.8494° N, 70.5086° E
State	Gujarat
Nearest City	Jamkandorna
Year of Completion	1973
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Phopal
Dam Type	Other
Height above lowest foundation level	29.1 m
Dam length	3780.0 m
Reservoir Area	12070000.0 m ²
Gross storage capacity	59600000.0 m ³
Effective storage capacity	51700000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	587.9 km ²
Perimeter of catchment	117.5 km
Basin Length	41105.0 m
Form factor	0.34796
Circularity ratio	0.53497
Elongation ratio	0.66538
Highest Stream order	8
Max elevation	178.0 m
Min elevation	59.0 m
Mean bifurcation ratio	2.1268
Stream frequency	69.6250 per km ²
Relief	119.00 m
Drainage density	9.0570 km/km ²
Length of overland flow	55.204 m

CATCHMENT CLIMATOLOGY

