

Mukteshwar Dam

Location	24.0400° N, 72.6278° E
State	Gujarat
Nearest City	Vadagam
Year of Completion	2004
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Saraswati
Dam Type	Composite Concrete and Masonry
Height above lowest foundation level	35.9 m
Dam length	2560.0 m
Reservoir Area	57774000.0 m ²
Gross storage capacity	40000000.0 m ³
Effective storage capacity	32000000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	305.0 km ²
Perimeter of catchment	107.2 km
Basin Length	39018.0 m
Form factor	0.20032
Circularity ratio	0.33366
Elongation ratio	0.50486
Highest Stream order	7
Max elevation	766.0 m
Min elevation	184.0 m
Mean bifurcation ratio	2.6790
Stream frequency	83.0500 per km ²
Relief	582.00 m
Drainage density	11.6670 km/km ²
Length of overland flow	42.857 m

CATCHMENT CLIMATOLOGY

