

Jesar Dam

Location	21.3408° N, 71.6544° E
State	Gujarat
Nearest City	Kundla
Year of Completion	1986
Operated and Maintained by	Gujarat Engineering Research Institute
River Basin	Sabarmati
River	Ranigadla
Dam Type	Earthfill Embankment
Height above lowest foundation level	22.0 m
Dam length	249.0 m
Reservoir Area	111325.0 m ²
Gross storage capacity	510000.0 m ³
Effective storage capacity	460000.0 m ³

CATCHMENT CHARACTERISTICS

Catchment Properties	Values
Area of catchment	4.7 km ²
Perimeter of catchment	10.8 km
Basin Length	4179.8 m
Form factor	0.26726
Circularity ratio	0.50650
Elongation ratio	0.58315
Highest Stream order	4
Max elevation	248.0 m
Min elevation	134.0 m
Mean bifurcation ratio	2.4473
Stream frequency	71.9610 per km ²
Relief	114.00 m
Drainage density	8.9790 km/km ²
Length of overland flow	55.687 m

CATCHMENT CLIMATOLOGY

