

Meenkara (Gayathri Stage - 1) Dam

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|--------------------------------------|-----------------------------------|
| Location | 10.6242° N, 76.7975° E |
| State | Kerala |
| Nearest City | Chittur |
| Year of Completion | 1964 |
| Operated and Maintained by | Kerala Water Resources Department |
| River Basin | West Coast |
| River | Meenkara |
| Dam Type | Earthfill Embankment |
| Height above lowest foundation level | 18.9 m |
| Dam length | 994.0 m |
| Reservoir Area | 2495000.0 m ² |
| Gross storage capacity | 11330000.0 m ³ |
| Effective storage capacity | 10330000.0 m ³ |

CATCHMENT CHARACTERISTICS

| Catchment Properties | Values |
|-------------------------|-----------------------------|
| Area of catchment | 89.8 km ² |
| Perimeter of catchment | 47.1 km |
| Basin Length | 14520.0 m |
| Form factor | 0.42615 |
| Circularity ratio | 0.50919 |
| Elongation ratio | 0.73636 |
| Highest Stream order | 7 |
| Max elevation | 969.0 m |
| Min elevation | 141.0 m |
| Mean bifurcation ratio | 3.4146 |
| Stream frequency | 74.5820 per km ² |
| Relief | 828.00 m |
| Drainage density | 10.6090 km/km ² |
| Length of overland flow | 47.128 m |

CATCHMENT CLIMATOLOGY

