

## Umiam Earthen Dam (Stage- I),Umiam Dam

|   |  |
|---|--|
| <b>Location</b>                             | 25.6726° N, 91.9019° E                         |
| <b>State</b>                                | Meghalaya                                      |
| <b>Nearest City</b>                         | Shillong                                       |
| <b>Year of Completion</b>                   | 1965   |
| <b>Operated and Maintained by</b>           | Meghalaya Power Generation Corporation Limited |
| <b>River Basin</b>                          | Brahmaputra                                    |
| <b>River</b>                                | Umiam  |
| <b>Dam Type</b>                             | Earthfill Embankment                           |
| <b>Height above lowest foundation level</b> | 32.3 m   |
| <b>Dam length</b>                           | 487.7 m  |
| <b>Reservoir Area</b>                       | 10200000.0 m <sup>2</sup>                      |
| <b>Gross storage capacity</b>               | 181500000.0 m <sup>3</sup>                     |
| <b>Effective storage capacity</b>           | 142350000.0 m <sup>3</sup>                     |

## CATCHMENT CHARACTERISTICS

| Catchment Properties           | Values                      |
|--------------------------------|-----------------------------|
| <b>Area of catchment</b>       | 2.1 km <sup>2</sup>         |
| <b>Perimeter of catchment</b>  | 6.1 km                      |
| <b>Basin Length</b>            | 1481.1 m                    |
| <b>Form factor</b>             | 0.96084                     |
| <b>Circularity ratio</b>       | 0.71023                     |
| <b>Elongation ratio</b>        | 1.10570                     |
| <b>Highest Stream order</b>    | 4                           |
| <b>Max elevation</b>           | 1056.0 m                    |
| <b>Min elevation</b>           | 958.0 m                     |
| <b>Mean bifurcation ratio</b>  | 3.5842                      |
| <b>Stream frequency</b>        | 95.3590 per km <sup>2</sup> |
| <b>Relief</b>                  | 98.00 m                     |
| <b>Drainage density</b>        | 12.8330 km/km <sup>2</sup>  |
| <b>Length of overland flow</b> | 38.961 m                    |

## CATCHMENT CLIMATOLOGY

