

## Karuppanadhi Dam

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| Location                             | 9.1378° N, 77.3064° E                 |
| State                                | Tamil Nadu                            |
| Nearest City                         | Tenkasi                               |
| Year of Completion                   | 1977                                  |
| Operated and Maintained by           | Tamil Nadu Water Resources Department |
| River Basin                          | South Coast                           |
| River                                | Karuppanadhi                          |
| Dam Type                             | Composite Masonry and Earth fill      |
| Height above lowest foundation level | 34.4 m                                |
| Dam length                           | 890.0 m                               |
| Reservoir Area                       | 5050000.0 m <sup>2</sup>              |
| Gross storage capacity               | 5238000.0 m <sup>3</sup>              |
| Effective storage capacity           | 5238000.0 m <sup>3</sup>              |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 33.3 km <sup>2</sup>        |
| Perimeter of catchment  | 26.2 km                     |
| Basin Length            | 8820.5 m                    |
| Form factor             | 0.42784                     |
| Circularity ratio       | 0.61186                     |
| Elongation ratio        | 0.73782                     |
| Highest Stream order    | 6                           |
| Max elevation           | 1777.0 m                    |
| Min elevation           | 221.0 m                     |
| Mean bifurcation ratio  | 2.6667                      |
| Stream frequency        | 86.4300 per km <sup>2</sup> |
| Relief                  | 1556.00 m                   |
| Drainage density        | 13.5280 km/km <sup>2</sup>  |
| Length of overland flow | 36.960 m                    |

## CATCHMENT CLIMATOLOGY

