

## Adavinainar Kovil Dam

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| Location                             | 9.0728° N, 77.2328° E                 |
| State                                | Tamil Nadu                            |
| Nearest City                         | Tenkasi                               |
| Year of Completion                   | 2002                                  |
| Operated and Maintained by           | Tamil Nadu Water Resources Department |
| River Basin                          | South Coast                           |
| River                                | Tamiraparani                          |
| Dam Type                             | Masonry Gravity                       |
| Height above lowest foundation level | 40.2 m                                |
| Dam length                           | 670.0 m                               |
| Reservoir Area                       | 350000.0 m <sup>2</sup>               |
| Gross storage capacity               | 4930000.0 m <sup>3</sup>              |
| Effective storage capacity           | 4930000.0 m <sup>3</sup>              |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 15.8 km <sup>2</sup>        |
| Perimeter of catchment  | 17.0 km                     |
| Basin Length            | 6071.3 m                    |
| Form factor             | 0.42993                     |
| Circularity ratio       | 0.69286                     |
| Elongation ratio        | 0.73962                     |
| Highest Stream order    | 5                           |
| Max elevation           | 1507.0 m                    |
| Min elevation           | 201.0 m                     |
| Mean bifurcation ratio  | 2.7942                      |
| Stream frequency        | 88.7190 per km <sup>2</sup> |
| Relief                  | 1306.00 m                   |
| Drainage density        | 13.6090 km/km <sup>2</sup>  |
| Length of overland flow | 36.742 m                    |

## CATCHMENT CLIMATOLOGY

