

## Subbaraya Balancing Reservoir Dam

|                                      |   |
|--------------------------------------|---|
| Location                             | 14.8150° N, 77.8886° E                    |
| State                                | Andhra Pradesh                            |
| Nearest City                         | Ananthapur                                |
| Year of Completion                   | 1983                                      |
| Operated and Maintained by           | Andhra Pradesh Water Resources Department |
| River Basin                          | Pennar                                    |
| River                                | Local Vagu                                |
| Dam Type                             | Earthfill Embankment                      |
| Height above lowest foundation level | 27.4 m                                    |
| Dam length                           | 970.0 m                                   |
| Reservoir Area                       | 1433000000.0 m <sup>2</sup>               |
| Gross storage capacity               | 11893.0 m <sup>3</sup>                    |
| Effective storage capacity           | 11893.0 m <sup>3</sup>                    |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 6.0 km <sup>2</sup>         |
| Perimeter of catchment  | 10.6 km                     |
| Basin Length            | 3570.7 m                    |
| Form factor             | 0.46948                     |
| Circularity ratio       | 0.66752                     |
| Elongation ratio        | 0.77289                     |
| Highest Stream order    | 5                           |
| Max elevation           | 418.0 m                     |
| Min elevation           | 302.0 m                     |
| Mean bifurcation ratio  | 4.7322                      |
| Stream frequency        | 81.3570 per km <sup>2</sup> |
| Relief                  | 116.00 m                    |
| Drainage density        | 11.4490 km/km <sup>2</sup>  |
| Length of overland flow | 43.672 m                    |

## CATCHMENT CLIMATOLOGY

