

## Sathnala Dam

|                                      |   |
|--------------------------------------|---|
| Location                             | 19.6936° N, 79.0452° E                  |
| State                                | Telangana                               |
| Nearest City                         | Adilabad                                |
| Year of Completion                   | 1986                                    |
| Operated and Maintained by           | Telangana Irrigation and CAD Department |
| River Basin                          | Godavari                                |
| River                                | Sathnala                                |
| Dam Type                             | Earthfill Embankment                    |
| Height above lowest foundation level | 22.0 m                                  |
| Dam length                           | 2815.0 m                                |
| Reservoir Area                       | 6650000.0 m <sup>2</sup>                |
| Gross storage capacity               | 37650000.0 m <sup>3</sup>               |
| Effective storage capacity           | 31130000.0 m <sup>3</sup>               |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 41.5 km <sup>2</sup>        |
| Perimeter of catchment  | 30.2 km                     |
| Basin Length            | 8433.2 m                    |
| Form factor             | 0.58332                     |
| Circularity ratio       | 0.57178                     |
| Elongation ratio        | 0.86151                     |
| Highest Stream order    | 6                           |
| Max elevation           | 538.0 m                     |
| Min elevation           | 242.0 m                     |
| Mean bifurcation ratio  | 2.3632                      |
| Stream frequency        | 77.9560 per km <sup>2</sup> |
| Relief                  | 296.00 m                    |
| Drainage density        | 10.9250 km/km <sup>2</sup>  |
| Length of overland flow | 45.768 m                    |

## CATCHMENT CLIMATOLOGY

