

## Kalyanpar Dam

|                                      |  |
|--------------------------------------|--|
| Location                             | 23.5978° N, 70.6692° E                 |
| State                                | Gujarat                                |
| Nearest City                         | Rapar                                  |
| Year of Completion                   | 1943                                   |
| Operated and Maintained by           | Gujarat Engineering Research Institute |
| River Basin                          | Sabarmati                              |
| River                                | Local Stream                           |
| Dam Type                             | Earthfill Embankment                   |
| Height above lowest foundation level | 11.1 m                                 |
| Dam length                           | 285.0 m                                |
| Reservoir Area                       | 205000.0 m <sup>2</sup>                |
| Gross storage capacity               | 1500000.0 m <sup>3</sup>               |
| Effective storage capacity           | 1480000.0 m <sup>3</sup>               |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 7.3 km <sup>2</sup>         |
| Perimeter of catchment  | 13.6 km                     |
| Basin Length            | 5413.5 m                    |
| Form factor             | 0.24964                     |
| Circularity ratio       | 0.49941                     |
| Elongation ratio        | 0.56359                     |
| Highest Stream order    | 5                           |
| Max elevation           | 116.0 m                     |
| Min elevation           | 49.0 m                      |
| Mean bifurcation ratio  | 2.2774                      |
| Stream frequency        | 78.7310 per km <sup>2</sup> |
| Relief                  | 67.00 m                     |
| Drainage density        | 10.1330 km/km <sup>2</sup>  |
| Length of overland flow | 49.345 m                    |

## CATCHMENT CLIMATOLOGY

