

## Ghelo(S) Dam

|                                      |  |
|--------------------------------------|--|
| Location                             | 22.0506° N, 71.3961° E                 |
| State                                | Gujarat                                |
| Nearest City                         | Jasdan                                 |
| Year of Completion                   | 1963                                   |
| Operated and Maintained by           | Gujarat Engineering Research Institute |
| River Basin                          | Sabarmati                              |
| River                                | Ghelo                                  |
| Dam Type                             | Earthfill Embankment                   |
| Height above lowest foundation level | 25.1 m                                 |
| Dam length                           | 670.5 m                                |
| Reservoir Area                       | 1800000.0 m <sup>2</sup>               |
| Gross storage capacity               | 8125000.0 m <sup>3</sup>               |
| Effective storage capacity           | 7315000.0 m <sup>3</sup>               |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 56.8 km <sup>2</sup>        |
| Perimeter of catchment  | 35.6 km                     |
| Basin Length            | 11359.0 m                   |
| Form factor             | 0.43996                     |
| Circularity ratio       | 0.56382                     |
| Elongation ratio        | 0.74820                     |
| Highest Stream order    | 7                           |
| Max elevation           | 278.0 m                     |
| Min elevation           | 161.0 m                     |
| Mean bifurcation ratio  | 2.3520                      |
| Stream frequency        | 75.0950 per km <sup>2</sup> |
| Relief                  | 117.00 m                    |
| Drainage density        | 10.0080 km/km <sup>2</sup>  |
| Length of overland flow | 49.960 m                    |

## CATCHMENT CLIMATOLOGY

