

## Faradi Dam

|                                      |  |
|--------------------------------------|--|
| Location                             | 22.9550° N, 69.5189° E                 |
| State                                | Gujarat                                |
| Nearest City                         | Mandvi                                 |
| Year of Completion                   | 1963                                   |
| Operated and Maintained by           | Gujarat Engineering Research Institute |
| River Basin                          | Sabarmati                              |
| River                                | Mandvi                                 |
| Dam Type                             | Earthfill Embankment                   |
| Height above lowest foundation level | 17.4 m                                 |
| Dam length                           | 2017.0 m                               |
| Reservoir Area                       | 1720000.0 m <sup>2</sup>               |
| Gross storage capacity               | 6179000.0 m <sup>3</sup>               |
| Effective storage capacity           | 5494000.0 m <sup>3</sup>               |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 54.0 km <sup>2</sup>        |
| Perimeter of catchment  | 39.1 km                     |
| Basin Length            | 14394.0 m                   |
| Form factor             | 0.26080                     |
| Circularity ratio       | 0.44322                     |
| Elongation ratio        | 0.57605                     |
| Highest Stream order    | 6                           |
| Max elevation           | 177.0 m                     |
| Min elevation           | 50.0 m                      |
| Mean bifurcation ratio  | 2.3949                      |
| Stream frequency        | 73.4490 per km <sup>2</sup> |
| Relief                  | 127.00 m                    |
| Drainage density        | 9.5820 km/km <sup>2</sup>   |
| Length of overland flow | 52.182 m                    |

## CATCHMENT CLIMATOLOGY

