

## Chirkhan Dam

|                                      |   |
|--------------------------------------|---|
| Location                             | 22.1233° N, 76.4214° E                    |
| State                                | Madhya Pradesh                            |
| Nearest City                         | Dhar                                      |
| Year of Completion                   | 1997                                      |
| Operated and Maintained by           | Madhya Pradesh Water Resources Department |
| River Basin                          | Narmada                                   |
| River                                | Kalapani                                  |
| Dam Type                             | Earthfill Embankment                      |
| Height above lowest foundation level | 12.9 m                                    |
| Dam length                           | 640.0 m                                   |
| Reservoir Area                       | 182000.0 m <sup>2</sup>                   |
| Gross storage capacity               | 586000.0 m <sup>3</sup>                   |
| Effective storage capacity           | 481000.0 m <sup>3</sup>                   |

## CATCHMENT CHARACTERISTICS

| Catchment Properties    | Values                      |
|-------------------------|-----------------------------|
| Area of catchment       | 9.2 km <sup>2</sup>         |
| Perimeter of catchment  | 15.7 km                     |
| Basin Length            | 6008.1 m                    |
| Form factor             | 0.25469                     |
| Circularity ratio       | 0.46731                     |
| Elongation ratio        | 0.56927                     |
| Highest Stream order    | 5                           |
| Max elevation           | 304.0 m                     |
| Min elevation           | 245.0 m                     |
| Mean bifurcation ratio  | 2.0160                      |
| Stream frequency        | 75.3780 per km <sup>2</sup> |
| Relief                  | 59.00 m                     |
| Drainage density        | 9.8760 km/km <sup>2</sup>   |
| Length of overland flow | 50.630 m                    |

## CATCHMENT CLIMATOLOGY

