Tehri Dam

The Tehri Dam is the highest dam in India and one of the highest in the world. It is a multi-purpose rock and earth-fill embankment dam on the Bhagirathi River near Tehri in Uttarakhand, India. It is the primary dam of the THDC India Ltd. and the Tehri hydroelectric complex. Phase 1 was completed in 2006. The Tehri Dam withholds a reservoir for irrigation, municipal water supply and the generation of 1,000 megawatts (1,300,000 hp) of hydroelectricity. The dam's 1,000 MW variable-speed pumped-storage scheme is currently under construction with expected commissioning in May 2018.[1][2] History Tehri dam in November 2004 A preliminary investigation for the Tehri Dam Project was completed in 1961 and its design was completed in 1972 with a 600 MW capacity power plant based on the study. Construction began in 1978 after feasibility studies but was delayed due to financial, environmental and social impacts. In 1986, technical and financial assistance was provided by the USSR, but this was interrupted years later with political instability. India was forced to take control of the project and at the first it was placed under the direction of the Irrigation Department of Uttar Pradesh. However, in 1988 the Tehri Hydro Development Corporation was formed to manage the dam and 75% of the funding would be provided by the federal government, 25% by the state. Uttar Pradesh would finance the entire irrigation portion of the project.


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Country         =India
Location                =Uttarakhand
Coordinates     =30°22’40”N 78°28’50”ECoordinates: 30°22’40”N 78°28’50”E
Status          =Operational
Construction began      =1978
Opening date    =2006
Construction cost       =US $2.5 billion
Owner(s)                =THDC INDIA LIMITED
        Dam and spillways
Type of dam     =Embankment, earth and rock-fill
Impounds        Bhagirathi River
Height          =260.5 m (855 ft)
Length          =575 m (1,886 ft)
Width (crest)   =20 m (66 ft)
Width (base)    =1,128 m (3,701 ft)
Spillways               =2
Spillway type   =Gate controlled
Spillway capacity       =15,540 m3/s (549,000 cu ft/s)
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Reservoir
Total capacity =4.0 km3 (3,200,000 acre·ft)
Surface area =52 km2 (20 sq mi)
Power Station
Commission date =2006
Type =Pumped-storage
Turbines =Francis pump turbines
Installed capacity =1,000 MW (1,300,000 hp)
Max. planned: =2,400 MW
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