

About Tehri Project

Tehri dam is 260.5m high rockfill earthen dam. It is the fourth highest dam in the world. It is a multipurpose project. Its first phase has been commissioned in 2006. In its first phase, there are four Francis turbines of 250MW capacity, generating 1000 MW electricity. Another 1000 MW capacity is to be added after completing the second phase by 2021. It is a major source of irrigation for Rabi crop to various canals of Uttar Pradesh and Uttarakhand State. Seven million peoples get drinking water from this dam. Dam's FRL (Full reservoir level) is at 830.2m (from mean sea level) and MFL (Maximum flood level) is at 835m. Designed PMF (peak maximum flood) is 15300 cumec and MFL is at 835 meter. A chute spillway, having 5500 CUMECS discharge capacity and four shaft spillways, each having 1900 CUMECS discharge capacity have been provided to pass the flood. Gross and live storage of the reservoir are 3540 and 2615 MCM respectively. Mean annual flow of river Bhagirathi is 8000 MCM. Tehri reservoir spreads 45 KM towards river Bhagirathi uptoDharshu and 25 KM towards river Bhilangana upto Ghanshali. Reservoir area at FRL is 42 Sq Km. Reservoir fluctuate 90m every year i.e from 740m to 830m.Location map of Tehri, dam and its reservoir are shown in Fig 1Fig 2 and Fig 3respectively.

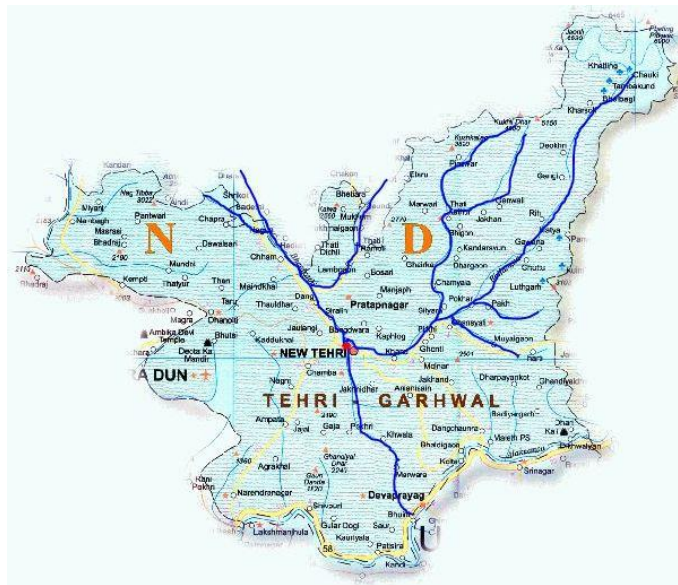


FIG. 1 Location map of Tehri



Fig 2 View of Tehri dam and its Chute Spillway



Fig 3View of Tehri Reservoir

EXPRESSION OF INTREST
FOR
TECHNICAL PROPOSAL FOR DESIGN, SUPPLY & INSTALLATION OF
WATERWAY BARRIERS IN TEHRI RESERVOIR.

Objective:

The main objective for provision of waterway barriers is to ensure the security of Dam, and floating debris control.

Functional Requirements:

- It should create a clear cut line of demarcation and does not allow any body to enter the prohibited / restricted area specially to Power Intakes, Chute Spillway, Shaft spillways & reservoir area near Dam i.e. 2 Km from Dam axis towards upstream.
- The waterway barriers should stop, catch and retain the floating debris, trees trunks, leaves & logs etc entering directly into the prohibited / restricted reservoir area and provides flexibility to meet the debris challenges.
- These waterways barriers should be provided with night time lighting arrangements. Therefore, serve the purpose in night also.
- These waterway barriers should satisfy the dam security requirements from public boats.
- The waterway barrier should be suitable for water level variation of 90.00 M (From EL 830.00 M to EL 740.00 M) in the Tehri reservoir. Waterway barrier length will be 1.5 Km to 2.00 Km in each valley.
- Waterway barrier will be established in two valleys i.e. Bhagirathi & Bhilangana Rivers.



THDC INDIA LIMITED

INVITES EXPRESSION OF INTREST FOR
Technical proposal for design, supply & installation of
waterway barriers in Tehri Reservoir.

- The main objective of waterway barriers is to ensure the security of Tehri Dam and to prevent floating debris.
- All other information related to Tehri Reservoir and objective & functional requirement of waterway barriers are available in THDCIL website www.thdc.co.in .

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