

TEHRI HPP (1000 MW)

(UNDER OPERATION)

Tehri Dam and HPP (1000 MW) comprises a 260.50 m high Earth & Rockfill dam, one of the highest dams of its type in the world, a Spillway System designed for PMF of 15540 cumecs and a drop of 220m, having one Chute Spillway and four Shaft Spillways and an underground Power House housing four Turbine/ Generator sets of 250 MW each, designed to operate with a head variation of 90m.

Project was commissioned in 2006-07 and all four machines of Tehri HPP are under commercial operation. Besides providing much needed power to the Grid, the command area is availing of irrigation benefits from the Project and drinking water is being supplied to Delhi and UP.

After long persuasion with GoUK and with the help of MoP, the long-awaited permission to fill Tehri Reservoir up to 830m (FRL) was granted and achieved its full reservoir potential (EL830m) on 24.09.2021 which enhanced energy generation and supports regularizing the downstream requirements of water for irrigation, drinking, flood control etc.

COMMISSIONING OF PROJECT

All four units (Unit-IV, Unit-III, Unit-II & Unit-I) were synchronized with the Northern Grid in Jul'2006, Oct'2006, Jan'2007 & Mar'2007 respectively and are in commercial operation w.e.f. 22.09.2006, 09.11.2006, 30.03.2007 & 09.07.2007 respectively.

GENERATION:

Details of generation from Tehri HPP for the previous years are as below:

S.No.	Years	Generation	
		Target (MU)	Achievement (MU)
1	2006-07	888.00	891.37
2	2007-08	2649.00	2663.58
3	2008-09	2649.00	3164.23
4	2009-10	2850.00	2116.79
5	2010-11	2797.00	3116.03
6	2011-12	2797.00	3983.65
7	2012-13	3000.00	3101.99
8	2013-14	2797.00	4060.43
9	2014-15	2900.00	3004.01
10	2015-16	2920.00	3101.06
11	2016-17	2964.82	3146.23
12	2017-18	3014.49	3080.91
13	2018-19	3106.39	3172.15
14	2019-20	3050.09	3041.72
15	2020-21	3015.00	3042.24
16	2021-22	3000.33	3098.12
17	2022-23	3000.00	3284.79
18	2023-24	3000.01	3248.56
19	2024-25	3030.03	3373.87
20	2025-26	3723.19	3512.07
Total		57151.35	61203.80

Details of generation from Tehri HPP for the current F.Y. 2026 - 27 are as under:

S.No.	Quarter/ Month	Generation	
		Target (MU)	Achievement (MU)
1	Apr'26	223.00	167.204
Total (up to Apr'26)		223.00	167.204

Cumulative generation during F.Y.2026 - 27 till Apr'26 is 167.204 MU against the target of 223.00 MU and average cumulative PAF achieved is 48.44%.

COMPLETION COST:

Approved Completion Cost of the Project is ₹8392.45 cr including IDC plus contingent liabilities on account of arbitration award / court cases etc, as per actual but not exceeding ₹967.38 cr.

TARIFF:

THDCIL had filed Petition No. 511/GT/2024 before Hon'ble CERC for determination of tariff period 2024-29 in respect of Tehri Hydro Power Plant (Tehri HPP) (4x250MW). The pleadings in the above petition have been completed, and Hon'ble CERC has reserved the Order.