

## **TEHRI DAM & HPP (1000 MW) (UNDER OPERATION)**

Tehri Dam and HPP (1000 MW) comprises a 260.50m 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 250MW 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 Northern Grid, the command area is availing 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) has been granted and Tehri HPP (1000MW) has also achieved its full reservoir potential (EL830m) on 24.09.2021. This achievement of FRL will enhance the energy generation and will also support in 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 under:

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
<b>Total</b>		<b>50398.13</b>	<b>54317.39</b>

Details of generation from Tehri HPP for the current F.Y. 2024-25 are as under:

S.No.	Quarter/ Month	Generation	
		Target (MU)	Achievement (MU)
1	Apr'24 to Jun'24	284.60	325.33
2	Jul'24	322.90	451.01
3	Aug'24	477.81	470.64
4	Sep'24	493.80	574.70*
<b>Total (up to Sep'24)</b>		<b>1579.11</b>	<b>1821.68</b>

Cumulative generation during F.Y.2024-25 till Sep'24 is 1821.68 MU against the target of 1579.11 MU and average cumulative PAF achieved is 65.47% against the target of 61.24%.

\*Tehri HPP achieved its highest ever single day energy generation of 25.890826 MU on 18.09.2024, surpassing the previous record of 25.805312 MU.

**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:**

The tariff for the period 2019-24 for Tehri HPP (1000 MW) has been approved by Hon'ble Commission in Petition No. 97/GT/2020.