

**GOVERNMENT OF INDIA  
POWER  
LOK SABHA**

UNSTARRED QUESTION NO:5149

ANSWERED ON:27.08.2010

TEHRI DAM

Bhagat Shri Sudarshan;Singh Shri Pradeep Kumar

**Will the Minister of POWER be pleased to state:**

- (a) whether the Government had taken cognizance of various risks and other environmental factors while constructing the Tehri Dam;
- (b) if so, the details thereof;
- (c) whether proper safety measures like flood control mechanism were installed in the Dam;
- (d) if so, the details thereof; and
- (e) the details of the power and other benefits of the Dam?

**Answer**

THE MINISTER OF STATE IN THE MINISTRY OF POWER(SHRI BHARATSINH SOLANKI)

(a) & (b) : All aspects concerning safety of structures including the dam of Hydro Electric Projects are examined in detail by the Central Electricity Authority (CEA) in consultation with Central Water Commission (CWC), Geological Survey of India (GSI) and other appropriate agencies at the time of according of techno-economic concurrence of Hydro Electric Projects. With a view to address environmental concerns, Environment Impact Assessment Studies are carried out for every Hydro Electric project as per terms of reference approved by MoEF and the project is not taken up for construction unless environment clearance is accorded by MoEF. Tehri dam was constructed after obtaining all clearances. Keeping in view the concerns expressed by various quarters, the environment and safety aspects of the dam have been examined and cleared by various Committees including Hanumanth Rao Committee and other international experts. The Tehri dam has been designed as a rock and earth fill type of dam (with central clay core) with inherent flexibility and capacity to absorb the energy released during dynamic events. All necessary actions and defensive features have been provided in the design of the dam to ensure that integrity of the dam is maintained, even when any unforeseen event takes place.

(c) & (d) : All necessary flood control measures have been taken while designing the Tehri dam. The dam has gross storage capacity of 3540 million cubic meter (MCM) & live storage capacity of 2615 MCM. The incoming flood water can be stored in the Reservoir during monsoon upto Full Reservoir Level (FRL). But, once the reservoir level reaches FRL, Spillways come into operation for releasing flood water.

(e) : Tehri Dam Hydro Power Project (1000 MW) not only provides peaking power to the Northern Region but also is designed for supplying 2797 million unit annually. In addition, two more hydroelectric projects namely, Tehri PSP (1000 MW) and Koteshwar HEP (400 MW) are also planned under the Tehri dam complex. Apart from this, the Tehri Dam Complex provides additional irrigation facilities to 2.70 lac. ha., helps in stabilizing existing irrigation in about 6.04 lac. ha, provides drinking water amounting to 300 Cusecs per day to Delhi and 200 Cusecs per day to towns and villages of UP, helps in flood moderation and has contributed to integrated development of the Garhwal region.