

Singoli-Bhatwari Hydroelectric Power Plant , Uttarakhand - Spinning of Turbines commences today

L&T commences commissioning of the plant today, transmission lines to get charged in about a month

Dehradun, September 21, 2020: Larsen & Toubro, India's leading EPC Projects, Manufacturing, Defense and Services conglomerate, today announced 100% completion & readiness for commissioning of the 99-MW Singoli-Bhatwari Hydroelectric Power Plant. The commissioning of this run-of-the-river plant along the iconic Char Dham route will be a major boost to the state of Uttarakhand, with the plant's capability of providing over 400 million units of renewable energy per annum.

Situated about 25 kms from Rudrapur, the plant features a barrage, with a medium-sized intake pond near Ukhimath, a 12 km long headrace tunnel and a surge shaft over 180 m in depth and is devoid of any rehabilitation and resettlement issues. The plant houses 3 units of Voith Turbine generators of 33 MW each, equipped with a state-of-the-art switchyard and controlled via the latest Supervisory Control and Data Acquisition (SCADA) technology.

The SCADA systems are designed to automatically monitor and control plant and its equipment such as telecommunications, water and waste control to take timely decisions and actions. This provides uninterrupted power supply at minimum generation cost. Besides, the plant will cater to peak demand loads of 2½ hours each in both halves of the day, bringing relief even during non-monsoon months and meeting peak electricity demand.

The wet commissioning process starts with machine spinning of the turbines initially without generation of electricity and upon due testing, eventual synchronization with the grid for supply of electricity. Grid synchronization and charging of the transmission lines is expected in approximately a month, and is timed during the inauguration of the plant.

Commenting on the occasion, Mr. S. N. Srivastava, Managing Director, Larsen & Toubro
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The project was challenged by the rough terrain, dense forests and a small working window because of the extreme cold weather, landslides, and monsoon floods. Uttarakhand Government enabled development by granting the necessary extension of time for completion of the project given the above challenges. State's transmission utility PTCUL supported the project by executing one of the fastest ever transmission lines connecting the 75 km distance between the project site and the nearest sub-station.

Mr. D K Sen, Whole-time Director and Senior EVP, L&T, said: "Our construction teams have re-used the muck generated during the excavation of the tunnel for construction works, thus minimizing the impact on the environment. Moreover, it is involved in environmental as well as social development of the region. We are proud to have built public infrastructure such as roads and bridges, laid water pipe lines and supported educational and sports facilities for the hilly region. We have been also assisting the district administration and the local communities in times of natural calamities such as cloudbursts, flashfloods, landslides and during the COVID19 pandemic."

Uttarakhand is one of the fastest growing states in Electric Energy requirement in the last 5 years and will continue to maintain its lead in Energy requirement in future. Currently, the state sources substantial power from outside the state. With the L&T Singoli Bhatwari Hydel Power Project, the state of Uttarakhand will see greater self reliance in power to meet its all-round growth agenda in services, manufacturing, Infrastructure development, Medical and Religious tourism as well as the initiatives of the Government of Uttarakhand to generate greater employment in the state.

Background:

Larsen & Toubro is an Indian multinational engaged in engineering, procurement and construction projects, manufacturing, defence and services with over USD 21 billion in revenue. It operates in over 30 countries worldwide. A strong, customer-focused approach and the constant quest for top-class quality have enabled L&T to attain and sustain leadership in its major lines of business for eight decades.

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