

Teesta III

One of the Largest Hydroelectric Projects in India

Andritz VA TECH HYDRO, a member of the Andritz Group, has received an order for the complete electromechanical equipment of the Teesta Stage III hydropower plant in Sikkim, India. The order was placed by Teesta Urja Ltd., Gurgaon, New Delhi, India.

Teesta Urja Ltd. is a special purpose company, established for the completion of the TEESTA Stage III project. TEESTA Stage III is situated in the north of the State of Sikkim, close to Sanklang on the Teesta River. The main project structures comprise:

- A 300m-long, 60 m high concrete-faced rockfill dam (CFRD)
- Two 16 x 21.2 x 285 m desilting chambers
- A 14 km head race tunnel with a 7.5 m horseshoe shape
- A 136 m-high surge shaft with a 20 m diameter
- Two 1,135 m long pressure shafts with a 4 m diameter
- An underground power station.

The Teesta River carries large amounts of sand with a high quartz content, which can cause major erosion damage to the turbine. Therefore, erosion resistance was allocated special attention in the turbine design through the provision of a hard coating. The pre-construction stage and infrastructure activities are currently in progress at the site and the project has obtained all the statutory clearances. Financial closure was achieved in September 2007. The project will be commissioned within the XIth Five Year Plan (2007 - 2012)

and the six sets will go online by August 2011, thus making an essential contribution to meeting Indian hydropower market demand.

Andritz VA TECH HYDRO will be responsible for model testing and the design, procurement, manufacturing, transport, installation and commissioning of the complete electromechanical equipment for the six vertical Pelton units. These activities mainly involve:

- Six Pelton turbines with governors and main inlet valves
- The mechanical auxiliaries
- Six generators
- The electrical balance of the plant.

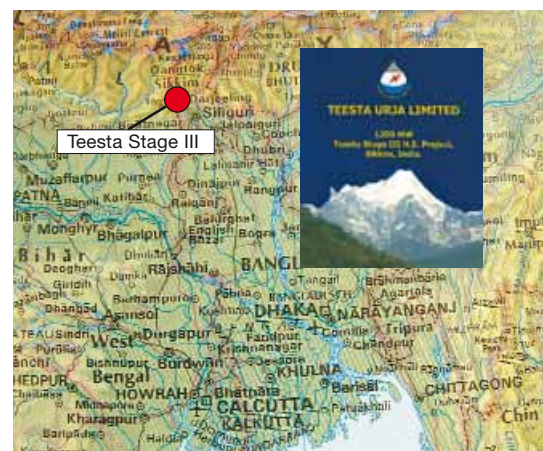
The main equipment components will be produced in India, at VA TECH HYDRO India Pvt. Ltd. in Bhopal (electrical equipment & generators) and at VA TECH Flovel Ltd. in Prithla near Delhi (mechanical equipment, turbine parts and main inlet valves). The Pelton turbine runners will be

Pelton type runner



Technical data:

Output	200 MW / 245 MVA
Voltage:	15 kV
Head:	778 m
Speed:	375 rpm
Runner diameter:	3,020 mm
Stator diameter:	4,800 mm



manufactured in Germany at Andritz VA TECH HYDRO in Ravensburg. With this contract we can further consolidate our already excellent market position in the fast-growing Indian hydropower market.

Eric Aegerter
Phone +49/751 83 3562
eric.aegerter@vatew.de

Teesta river near the power station

