

Specialist Press Release

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Electricity from hydropower: Bauer involved in the Teesta VI Hydro Electric Project in India

Singtam, Sikkim, India – BAUER Engineering India Private Limited, a subsidiary of BAUER Spezialtiefbau GmbH, was tasked by Jaiprakash Associates Limited with execution of specialist foundation engineering and geotechnical work for the Teesta VI Hydro Electric project. The project developer is M/s. Lanco Teesta Hydro Power Limited, a wholly-owned subsidiary of the National Hydro Power Corporation of India. The project will be realized in the town of Singtam on the Teesta River. This river, which is more than 300 km long, rises from the Pahunri Glacier at an altitude of more than 7,000 m in the eastern Himalayas before flowing through the Indian states of Sikkim and West Bengal until it joins the Jamuna River at Fulchhari in Bangladesh.

Scope of works executed by BAUER Engineering India Private Limited include construction of an anchored pile wall, consisting of around 10,000 running meters of piles with a diameter of 800 mm, as well as around 60,000 running meters of anchors. The anchored pile wall will enable a 40 m deep excavation for the intake structure on the right bank. Along the upstream cofferdam 4.700 m² of grout curtain will be constructed using the jet grouting technique. In two individual stages on the upstream side of the barrage 4,600 m² of diaphragm wall will be built, using a trench cutter through the bouldary alluvium after pre-treatment.

“Due to the special location of the Teesta River, it is proving challenging to both harness hydropower and also protect local residents against flooding,” says Harish Agarwal, Senior Vice President of Jaiprakash Associates Limited. Another challenge poses the limited space on site due to the relatively narrow valley and steep slopes as well as working in close proximity to an existing barrage. Construction works also will be executed through substantial bouldary strata and under erratic flooding pattern in the river.

The work executed by Bauer started in April this year and is expected to be completed by fall 2024.

Image: 2021-07_BAUER_Teesta VI Hydro Electric Project



Bauer is carrying out the specialist foundation engineering work for the Teesta VI Hydro Electric project in the Indian state of Sikkim.

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About BAUER Spezialtiefbau Group

BAUER Spezialtiefbau GmbH, the original parent company of the BAUER Group, has been a major driving force in the development of specialist foundation engineering. It carries out all of the customary processes of foundation engineering, primarily for excavation pits, foundations, cut-off walls and ground improvements on a worldwide basis. In doing so, BAUER Spezialtiefbau GmbH works closely together with their over 50 subsidiaries and branches across the globe. Regional networks around the world allow for the quick and flexible application of machines, teams and expertise. Bauer Spezialtiefbau offers their customers individual, creative and economical specialist foundation engineering solutions for demanding construction projects, from planning through to execution. More at bst.bauer.de

About Bauer

The BAUER Group is a leading provider of services, equipment and products dealing with ground and groundwater. With over 110 subsidiaries, Bauer can rely on a worldwide network on all continents. The Group's operations are divided into three forward-looking segments with high synergy potential: Construction, Equipment and Resources. Bauer profits enormously from the collaboration of its three business segments, enabling the Group to position itself as an innovative, highly specialized provider of products and services for demanding projects in specialist foundation engineering and related markets. Bauer therefore offers suitable solutions to the world's greatest challenges, such as urbanization, the growing infrastructure needs, the environment, as well as water, oil and gas. The BAUER Group was founded in 1790 and is based in Schrobenhausen, Bavaria. In 2020, it employed about 11,000 people in around 70 countries and achieved total Group revenues of EUR 1.5 billion. BAUER Aktiengesellschaft is listed in the Prime Standard of the German Stock Exchange. More information can be found at www.bauer.de. Follow us on [Facebook](#), [LinkedIn](#) and [YouTube](#)!