

Specialist Press Release

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Bauer constructs cut-off wall for hydroelectric power plant in Nepal

Sankhuwasabha District, Nepal – The Arun River in Nepal flows from Tibet through the Himalayas into China. Of all Nepalese river basins, it has the largest area covered in snow and ice. A new hydroelectric power plant is currently being constructed on this river, and it is expected to produce up to 900 MW of electricity.

BAUER Engineering India Pvt. Ltd., a subsidiary of BAUER Spezialtiefbau GmbH, was tasked by the Indian company Jaiprakash Associates Limited with the construction of a cut-off wall as part of the project Arun III HEP. The goal is to achieve a seal and reduce seepage water below the upstream cofferdam and in the left and right abutments.

The scope of service provided by Bauer includes the execution of 3,500 running meters of drilling and injection work on the cofferdam. In the granular construction soil, composed of sand, gravel, rubble and boulders, the pore injections are executed by means of tube-à-manchette and annular grouting.

“Using the pore injections, we are able to fill the pores in the very loose soil with cement slurry and thereby reduce its permeability”, explains Project Manager Satish Kumar. He continues: “Injections require a high degree of quality assurance and quality control. We are able to meet the strict demands thanks to our many years of experience.” In addition to the pore injections, Bauer will also carry out rock grouting in order to fill gaps, fractures and cavities in the rock.

Due to the remote location in the Himalayas, not only the construction soil poses a challenge, but also logistics. On top of that, the schedule is very tight: this is because snow starts to melt in March, causing the water level in the river to rise and making work more difficult.

A KLEMM KR 909 is being used for the drilling and injection work. The work executed by Bauer started in December 2021 and is expected to be completed by May 2022.

Photo: 2022-03_BAUER_Arun 3



A KLEMM KR 909 is being used for the drilling and injection work. © BAUER Group

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](#)!