

JAL:Arun-3:C-1:Gen:2023: 1635
01.03.2023

TO WHOM IT MAY CONCERN

Arun-3 Dam (Nepal)

Drilling and grouting works at upstream cofferdam executed by Bauer Engineering India Pvt. Ltd

Dear Sirs and Madam,

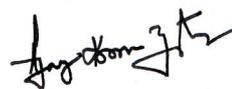
Following the successful completion of BAUER's part of the project, I would like to express my appreciation for the means and methods in which BAUER has performed on the project.

Arun-3 Hydroelectric Project is a Run-of-River scheme, located on the River Arun in Sankhuwasabha District in eastern development region of Nepal. The closest point of road access is Num Bazaar, which is close to the proposed dam site of the Project. Num Bazaar can be reached from Kathmandu by taking a flight to Tumlingtar, then driving approximately 15 km on an all season road to Khandbari, followed by approximately 40 km on a fair weather road. The Arun River is one of the major tributary of the Koshi River in the Sapta Koshi basin.

Bauer Engineering India Pvt. Ltd, a subsidiary of BAUER Spezialtiefbau GmbH, whose office is located at BAUER Straße 1, 86529 Schrobenhausen, Germany has been engaged by Jaiprakash Associates Limited.

BAUER was awarded the execution of a grout curtain consisting of three rows at the upstream cofferdam. The grout curtain has temporary purposes and serves safety during the work on the main dam, which is downstream.

Drilling works were executed by means of double head rotary Klemm rigs 909 and Grouting works were executed with 04 no DP 63 obbermann Pumps along with BM 2000 mixing unit and other necessary associated plants and machineries






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Details of the Contract

Construction period
November 2021 to April 2022

Location

The site of the Arun-3 dam project is located approximately 307 km northwest from the national capital Kathmandu, Nepal.

Scope of works

Permeation grouting on upstream cofferdam, consisting of three rows

- Drilling with KLEMM drilling rig KR 909: in total 3439.50 lin.m.
- Grouting:
 - Tube-a-manchette in overburden & rock: in total 3126 m.
 - Rock grouting in fresh rock: in total 262 lin.m.

Geological condition

Alluvium and colluvium, consisting of sand, gravel, pebbles and boulders, followed by bedrock (gneiss and schist). UCS values of bedrock up to 75 MPa.(average)

Conclusion

The flexibility and understanding that BAUER afforded us in a very difficult time was much appreciated. Furthermore, delivering on time with an exemplary safety record is a testament to Bauer's professionalism.

The professional way in which the BAUER team prepared and executed the works was very well received. Trial mixes and generally quality management and control along the detailed method statement secured the highest standards of quality for the product.

The work carried out was very professional.

BAUER was proactively seeking solutions, addressing issues and were answering questions related to any subjects of the works. I also note that these matters were few and infrequent.

BAUER's professional approach towards Health Safety Environment (HSE) was excellent. The project was executed within the agreed schedule.

Yours faithfully
For JAIPRAKASH ASSOCIATES LIMITED




[AJAY KUMAR GUPTA]
Sr. Vice President

