



NEWS FROM ONGOING PROJECTS

Upper Tamakoshi Hydroelectric 456 MW Project.

Since 2011 the Joint Venture of Lahmeyer GmbH and Norconsult have been responsible for detailed design and construction management. The initial milestone for completion was set in 2016; however, powerful earthquakes that hit Nepal in 2015 caused extensive damage to the dam structures, as major rock-slides hampered the accessibility to the construction sites resulting in considerable delays. Despite the unforeseeable consequences, and notwithstanding the surrounding harsh terrain almost 99% of works of the Project has been completed so far.

Aiming to meet completion deadlines, and conduct a necessary and important technical assessment, the 456 MW Peaking Run-of-River (PRoR) Upper Tamakoshi Hydropower Project has started to test its headworks and reservoir from the first week of March 2020; a reservoir of 1.2 million m3 live storage capacity. This first impounding is an integral part of the Project aiming to assure the qualitative prerequisites of the detailed design. Taking into account that the completion deadline is nearing, Contractors have planned and initiated a series of meticulous tests to be completed within March 2020 including the functionality of the dam itself along with its auxiliary civil structures; the integrity of power intake, the sedimentation reservoir and the vital mechanical equipment of headworks. Impounding of the reservoir took at least seven days to get fully filled and allow Contractors to conduct all necessary tests. The reservoir will be finally filled when the headrace tunnel is ready for its 1st filling.

Contact: Bernhard STABEL & Renos CHRISTAKIS – Tractebel Engineering GmbH

CONTRACT AWARDS

Rehabilitation of the Agus-Pulangi Hydropower Complex.

In late 2019 Tractebel was awarded a contract by the World Bank to prepare a Multiple Options Study for the Rehabilitation of the Agus-Pulangi Hydropower Complex. The options under consideration range from a basic rehabilitation to restore the rated capacity and extend the operating life to a rehabilitation aiming at the increase in capacity and energy through the increased usage of available water.

Despite of challenges concerning the safety of travellers in the country a team of Tractebel experts from Germany, Thailand and the Philippines travelled to Mindanao in January 2020 to undertake a thorough inspection of the hydropower projects. In a five weeks long mission the experts studied the projects with respect to the condition of the projects' electromechanical equipment components, civil works and socio-environmental compatibility. The inspection findings and project documents are presently under evaluation to determine the most promising rehabilitation option. The study is scheduled to be presented to the Client in the last quarter of 2020.

Contact: Christian SIEMER, Dr. Klaus MÖLLER, Tractebel Engineering GmbH



CONTRACT AWARDS

Success with Nimes Metropole.

Further to a public tender launched by Nimes Metropole in Southern France, Tractebel France has been awarded a framework contract over a period of three years for follow-up of the eighteen dams and protective dikes falling under their jurisdiction. In addition to the classical routine monitoring of structures, the scope of services also includes a graduated on-call duty. Because of the latter, this project will require the devoted involvement of our colleagues from the office of Tractebel France in Nimes. This success rewards our strategy aiming at taking advantage of the presence of our regional office in France in order to develop the proximity markets.

Contact: Sébastien Lacroix

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Dibang Multipurpose Project Dam.

Tractebel was awarded on January 2019 the contract of "Consultancy Services for the feasibility study to explore the Design suitability of Constructing Dibang Dam as Roller Compacted Concrete (RCC) Dam" by NHPC (National Hydroelectric Power Corporation), the Owner. Dibang Multipurpose Project Dam is located in the Arunachal Pradesh region, in the far east of India, and consists in a 280 m high concrete gravity dam project. The project has been in the pipes for several decades and the design of a conventional concrete gravity dam has already been well advanced by NHPC as well as an important range of geological investigations. Yet they wish to convert the dam to a Roller Compacted Concrete dam but have low experience in this field. Tractebel is therefore in charge of studying the conditions of change, based on our experience in high RCC dams (GIBEIII, GERDP, Souapiti, ...). The main subjects concern concrete mix design, planning aspects, specific construction measures and seismic resilience.

The project team has been to India to meet the client, visit the site and lead preliminary technical discussions and is now carrying out the final report revision.

Contact: Fiona Theoleyre



CoP H08 - WATER DESALINATION COMMUNITY IS ONLINE!

The Community of Practice (CoP) "Water Desalination" has been launched and is now accessible to all Tractebel employees.

In response to fresh water scarcity and rising water demands, desalination has evolved into a viable alternative water supply. Unconventional water resources, such as desalinated water, are expected to play a key role in narrowing the water demand-supply gap. Tractebel expect a growing market in that very interesting area. With the CoP Desalination, we want improve our exchange of knowledge in this area.

Visit our CoP, ask a question on joining the public Yammer group [H08 COP Desalination](#) or visit our virtual [H08 Desalination platform](#)

Contact: Ronald Zierau



CONTRACT AWARDS

Study of two new alternatives for Water Supply Systems in the Rio das Velhas Basin.

VALE is one of the world's largest mining companies. It is a leader in the production of iron ore, pellets and nickel and also have major operations in the areas of logistics, power and steel making.

The primary business of the company is mining, an essential activity in modern times. From cell phones to airplanes, building structures to coins, ores are the ingredients for various indispensable items for everyday life.

In this specific case, TRACTEBEL was contracted by VALE not to mining market, but related to water supply.

The failure of VALE's tailings dam in Brumadinho, in Jan-2019, affected partially the water supply systems and threatened the long term delivery of the system. An agreement between VALE and the Public Authorities was signed in 2020 with the main objective of guaranteeing the water supply resilience of the city, in case of other dam accident in the Metropolitan Area.

This agreement involves VALE, COPASA (Sanitation Company of Minas Gerais), with the intervention of PUBLIC PROSECUTORS (with technical advisory by AECOM). TRACTEBEL was contracted by VALE to perform engineering and environmental studies.

Contact: Gustavo Curi