

PROJECTS - Calcesur S.A.



## SAXUM Electrical Engineering Services for Calcesur S.A., Peru



Cal & Cemento Sur S.A. (Calcesur S.A.), a lime and cement production company located in the altiplano region of Peru is currently developing a project to expand their lime production. The plant is located in the vicinity of the City of Juliaca, Province of San Román, Perú, where lime and hydrated lime are produced with a high level of efficiency. The lime plant of Cal & Cemento Sur S.A consists of five kilns, 2 horizontal kilns and 3 new PFR vertical kilns supplied by Maerz with a capacity of 500 tons per day (TPD) each one and by ancillary equipment of the highest technology. The current project aims to expand the production of lime by

installing a new line of 1.000 TPD. Recently Calcesur S.A. requested the technical assistance of SAXUM to perform its lime plant expansion project. SAXUM's scope of work consists on providing specialized electrical consultancy for the review of electrical protection studies, short circuit, load flow, power factor, and energy quality. SAXUM services also include the development of the grounding system considering the existing electrical installations and the new additional low and medium voltage loads included in the expansion project. To achieve the project objectives, SAXUM's team performed the following tasks:

- On-site technical visit, to define technical aspects of the electrical distribution system and evaluate soil electrical resistivity,
- Basic electrical engineering, for purchasing the distribution boards, motor control centers, transformers and medium voltage power cables,
- Detailed engineering of primary grounding system, including the preparation of calculations and construction drawings,
- Development of technical reports of short circuits, load flows, protection coordination, reactive energy compensation, energy quality, including both, the existing facilities and the expansion project.■

PROJECTS- UCEM Ecuador



## Civil/Structural Detailed Engineering for Chimborazo and Cojitambo projects, UCEM Ecuador

**Chimborazo Project of UCEM, Ecuador**  
SAXUM was awarded by UCEM of Ecuador the development of the detailed civil and structural engineering for the new petcoke grinding plant to be installed in its Chimborazo plant in Ecuador. The new facility is composed by the reception area, the petcoke storage, reclaim and transport and the petcoke grinding mill. The construction of the petcoke storage area foundations are currently

being completed as well as the mill and the grinding building foundations. Saxum's Scope of work includes the optimization of the structural and foundation designs as well as the integration of the structural solutions with the mechanical general arrangement drawings which are issued by the equipment supplier.  
**Cojitambo Project of UCEM, Ecuador**  
UCEM from Ecuador has also awarded SAXUM the development of the detailed

civil and structural engineering for the coal grinding plant to be installed in its Cojitambo plant in Ecuador. SAXUM's scope of works includes the verification of the steel structures provided by the equipment supplier, according to Ecuador's standards and to the design criteria by UCEM, as well as the development of the foundation and structural engineering for the coal mill building and the petcoke reception areas.■



# Basic and Detailed Engineering for new Press Filter ,BARRICK Gold Argentina



BARRICK Gold Corporation is a global gold mining company, which operates various mining operations worldwide under the highest standards of quality, safety, environmental care, and social responsibility.

The Veladero Mine, located in the Province of San Juan, in the western region of Argentina is operated by Minera Argentina Gold S.R.L (MAGSRL), the Argentine company of BARRICK Gold Corporation. Recently, MAGSRL acquired a new press filter to be installed in the existing filter area of its Veladero mine. For the purpose of this project, MAGSRL awarded SAXUM the

updating of the basic engineering of the project and, once completed, to develop the entire detailed engineering which encompasses civil, structural, mechanical, piping, electrical and instrumentation design solutions up to the issued-for-construction level of definition.

SAXUM's assistance in this project will include the provision of highly specialized technical assistance for the installation of the new equipment. For the purpose of this project, SAXUM lead engineers have already visited the site to evaluate the features of the new

press filter to be installed, as well as the existing facilities in the area where this equipment will be located at the Veladero plant. A relevant challenge of SAXUM in this project is the achievement of optimal operation performance of the new filter, avoiding impacts or effects in the operation of existing equipment in adjacent areas.

SAXUM's engineering designs are committed to reach the highest economical, safety, and environmental care standards assumed by Minera Argentina Gold S.R.L (MAGSRL) for its operations in Argentina. ■



## Gold mine project in the Andean region of Salta province, Argentina

The EPCM services by SAXUM for the Lindero project has just started in October 2017, when the kick off meeting has taken place. In our next Connection more information about this project and SAXUM services will be publish.

*In photo, from left to right:* Juan Pablo Grassetto (SAXUM's Lead Civil/Structural Engineer), Martín Mendoza (SAXUM's Purchasing Manager), Marcelo Ansardi (SAXUM's Lead Mechanical Engineer), Néstor Lares (SAXUM's Project Manager), Victor Terrazas (Fortuna Silver Construction Manager) and Fabio Chaparro (Fortuna Silver Corporate Project Control) ■





# HAZOP Evaluation for Mina Pirquitas of Silver Standard Resources Inc., Argentina

Mina Pirquitas is a silver and zinc processing plant of Silver Standard Resources Inc, SSRC, located in the Jujuy province of the northwestern region of Argentina. Mina Pirquitas has one of the most important silver deposits in the world. The mine production during 2016 was of 10 million ounces of silver and 5 million pounds of zinc, approximately.

Currently, SAXUM is developing a HAZOP study that includes the analysis of operational risks of the plant. To achieve this objective, SAXUM's team of professionals visited the site for a thorough analysis of the process operation. In the first stage, the most critical variables affecting the production process were identified, regarding both, equipment operation and production quality. Then, the risk implications of each one of these variables will be evaluated and the most



appropriated methodology for their control will be determined. The HAZOP evaluation and related report by SAXUM will include a detailed

and quantitative description of the consequences involved in the mine operational risks, as well as the corresponding recommendations. ■

## THE COMPANY



## Pablo Dawidowicz, Sr CPA SAXUM Administration Manager

Pablo is a Certified Public Accountant with a degree obtained at the National University of Tucuman, Argentina, where he also took postgraduate courses in Business Administration. He has extended experience in financial evaluations and project feasibility, particularly regarding companies related to engineering and construction management businesses. At SAXUM he is also in charge of project cost control, analysis and follow-up.

Pablo has been working at SAXUM for over 12 years. His responsibilities cover multiple activities including the financial and tax control of all SAXUM companies in Argentina, Brazil and USA, as well as their intercompany balances. For this purpose he manages the di-

fferent tax companies of SAXUM in the countries of our subsidiaries. He also follows up the monthly certificates issued by all SAXUM project managers in our different subsidiaries.

As Saxum's Administration Manager, he is part of the company management, supporting the activities of SAXUM Executive Manager regarding the preparation and follow-up of the company's financial statements and annual budgets, while coordinating the external accounting offices for the preparation of the annual balances of all SAXUM subsidiaries. Without any doubt, Pablo Dawidowicz is one of the key managers of SAXUM Engineered Solutions. We are proud to have him on-board at SAXUM. ■



*CONNECTION is a newsletter published by SAXUM Engineered Solutions for its clients*

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