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SIEMAG TECBERG supplies shaft hoisting equipment to EuroChem-Usolskiy Potash Complex

In July and August 2021 **SIEMAG TECBERG** and **LLC EuroChem-Usolskiy Potash Complex** signed agreements for the delivery of shaft hoisting systems.

LLC EuroChem-Usolskiy Potash Complex is part of **EuroChem Group AG**, a major Russian company group based in Zug, Switzerland, that specialises in the production of fertilizers and operates its own mining sites and further-processing systems for phosphates and nitrates. The EuroChem Group employs more than 27,000 people.

Situated in the region of Perm close to Russia's traditional potash production sites is Verkhnekamskoe, one of the world's largest potash deposits. Potassium chloride (KCl) is the potassium salt of muriatic acid and forms colourless, salty-bitter-tasting, water-soluble crystals. It is used in large-scale technology for the



Complex of Usolskiy Shaft No. 3 in Verkhnekamskoe, Region of Perm, Russia (© Eurochem. Image use with kind permission.)

manufacture of potash fertilizers and in food technology as a firming agent and flavour enhancer. Potassium chloride is used as an active agent in medicines, mainly to remedy potassium deficiency. The salt is also contained as an additive in numerous medicines, for example, in isotonic solutions administered as infusions.

One expansion phase of the Usolskiy complex includes the already begun new-construction of a third production shaft (Usolskiy Shaft No. 3) with a depth of 511.7 m as well as a further treatment system.

The present agreement requires SIEMAG TECBERG to undertake the engineering, production, delivery, supervision of assembly and commissioning of the following equipment:

Shaft hoisting systems for raw material extraction

- Double-drum winding machine, dia. 6.0 m, for skip-skip extraction with a drive capacity of 4.55 MW and designed for an annual hoisting capacity of up to 4.2 million tonnes. Sliding bearings with bearing lubrication, a type SB1 hydraulic braking system, rope sheaves for deflection, as well as automation and signalling equipment complete this shaft hoisting system package
- Hoisting equipment in the form of raw-material containers for shaft hoisting
- Loading stations on two levels under ground
- 2 rope deflection sheaves, dia. 6.0 m

Shaft hoisting systems for personnel and equipment

- 1-rope drum hoisting machine, dia. 3.6 m, for cage hoisting with 1 gearbox and an overall drive capacity of 1.5 MW (2 x 750 KW), incl. rolling bearings, a type SB1 hydraulic braking system together with automation and signalling equipment as well as a rope sheave for deflection
- Hoisting means (1-stage cage) with 10 t payload
- 2 cage arresting devices

Equipment for rope changing

- Reeling winch, incl. accessories

In the recently expanded TECBERG park at auf der Kalteiche near Haiger efficient construction site assembly/installation and final commissioning on site at the mine is ensured for the customer's benefit by complete functional assembly/installation of the equipment together with extensive system tests on drive test stands as well as pre-commissioning with all pre-settings.

SIEMAG TECBERG further impresses by its special, comprehensive „Logistics & Certification Competence for the CIS“ that enables the customer the fastest possible and problem-free registration and transfer of the equipment to its stock of capital equipment under official supervision.

After commissioning of the systems the LLC EuroChem-Usolskiy Potash Complex company will be competently supported on site with the necessary spare parts and with maintenance of the delivered equipment by qualified SIEMAG TECBERG personnel from the SIEMAG TECBERG service branch and storage facility at Berezniki in the Perm region.

The Company

The SIEMAG TECBERG group is the world's leading supplier of shaft hoisting technology. The group provides knowledge-based services for the supply of individual machines and plants for a total of six industrial applications: Shaft hoisting technology for raw material extraction as well as storage of contaminated raw materials, extraction and transport of heavy loads, ventilation and cooling of underground mines, technologies for the horizontal extraction of bulk materials including handling technology for raw materials, as well as technologies for the efficient application of energy in hoisting, ventilation and cooling.

The SIEMAG TECBERG Group focuses its technical activities on the development, design, manufacture, commissioning and technical service of shaft hoisting systems for vertical and inclined hoisting of raw materials. The SIEMAG TECBERG Group commands pronounced engineering expertise in mechanics, hydraulics, drive and automation technology. Worldwide unique reference projects attest to the SIEMAG TECBERG Group's overall system expertise and leading position.

The niche specialist's technology emerged from a forge founded in 1871 in Siegerland, which produced equipment for local ore mining and the iron and steel industry.

Following a management buy-out in 2007, SIEMAG TECBERG was founded by Jürgen Peschke, who to date has been CEO and Controlling Shareholder.

The SIEMAG TECBERG Group is represented on all continents by at least one subsidiary and works together with cooperation partners worldwide. In addition to the headquarters with the assembly plant in Haiger north of Frankfurt am Main, locations are situated in Rugby/UK, Katowice/Poland and Moscow/Russia, supplemented by further locations with their own assembly plants in Tianjin/China, Sydney and Mayfield East/Australia, Johannesburg/South Africa, and Milwaukee and Denver/USA.

The group employs about 400 people worldwide. The business volume amounts to approximately 120 million EUR p.a. (as of 12/2019).

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