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First ferric chloride plant based on proprietary technology built in Kuwait

Chemnitz, 21/02/2022: The end of 2021 saw an important milestone for Chemieanlagenbau Chemnitz (CAC) - the successful commissioning of the first ferric chloride plant using proprietary technology. In this plant, the Client from Kuwait produces a saleable product, which can be used, among other things, for water treatment.

This first reference is an addition to CAC's portfolio as one of the leading companies in the planning and construction of plants for the processing of products from chlor-alkali electrolysis. "After more than 20 years of experience in this field, we have developed a new technology with a lot of commitment as well as trust from the Client. We have created a reference, which will be the basis for follow-up projects that are already in prospect," says Jörg Engelmann, CEO of CAC.

For the Client Al Kout Industrial Projects (AIP) in Kuwait, it is also the first ferric chloride plant. Located at the site in Shuaiba on the Persian Gulf, the plant uses feedstock such as iron scrap, hydrochloric acid and chlorine gas to produce a saleable product that is used as flocculant in water treatment, but also in the etching of printed circuit boards.

"My appreciation to the entire CAC team for their support during the startup despite this global pandemic. We will surely be glad to work with CAC again", declares Faisal Malallah, CEO of Al Kout Industrial Projects.

The annual capacity of the industrial plant at the Shuaiba site in the Persian Gulf amounts to 20,000 tons of ferric chloride (FeCl₃) (based on 100%) as a 40% solution. It will only take a few retrofit measures to adjust the design of plant hydraulics for the production of 40,000 tons of FeCl₃ per year if required. CAC was responsible for the preparation of the FEED package, detail engineering and supply of the main process equipment. AIP provided the bulk material supply, construction and installation of the plant.

About Al Kout Industrial Projects

More than 40 years ago, the operation of the salt and chlorine factory for the supply of chlorine to the desalination and electricity plants started. In 2000, Al-Kout Industrial Projects Group took over and expanded the plant with new machinery and equipment in order to increase capacity. AIP includes six 100%-owned subsidiaries, including a petrochemical company, a chlor-alkali electrolysis plant in the United Arab Emirates, a chemical trading and service business, water and wastewater treatment as well as sales companies. AIP has set itself the goal of becoming the market leader among suppliers of chlor-alkali and related derivatives in the Gulf States as well as in the Middle East and North Africa.

Chemieanlagenbau Chemnitz GmbH



Reliable, experienced and approachable, CAC is an internationally leading plant engineering company in the field of process and chemical engineering. In the business fields of inorganic chemicals, refineries and petrochemicals, gas technology and industrial plant CAC offers the entire range of services of an engineering and plant construction company. This begins with the development of a concept, continues through the planning stage and turnkey construction to the point of commissioning of complex plant and plant units – in close co-operation with the customer at all times. With around 400 employees, 270 at the headquarters in Chemnitz, CAC has constructed over 500 industrial plants worldwide in the course of over 55 years. More information about Chemieanlagenbau Chemnitz GmbH can be found at: www.cac-chem.de

[HUGO PETERSEN GmbH](#) is the world's largest technology provider for sulphuric and hydraulic acid production as well as gas cleaning processes, it has been part of the CAC Group of Companies since 2005. In 2006 the engineering company [BiProTech Sp. z.o. o.](#) was added as a second subsidiary.