

thyssenkrupp Uhde selected by Saipem to license a urea granulation unit in Karratha, Australia

- **Efficient and low-emission urea production by means of thyssenkrupp Fertilizer Technology's UFT® fluid-bed urea granulation technology**

thyssenkrupp Fertilizer Technology of thyssenkrupp Uhde has signed a contract with the Italian Group Saipem, a global leader in the engineering and construction of major projects for the energy and infrastructure sectors, to license a urea granulation unit in Karratha, Western Australia. The project in Karratha is being realized and built for Perdaman Chemicals and Fertilisers by a joint venture (50/50) comprising the Western Australian company Clough and the Italian company Saipem. Perdaman Chemicals and Fertilisers is a multinational company headquartered in Western Australia. Besides investing in fertilizer production, it specializes in supporting farmers with harvesting and food production.

thyssenkrupp Fertilizer Technology of thyssenkrupp Uhde will be responsible for the licensing, the process design package and for supplying the main equipment for Saipem's urea project. With its proprietary UFT® fluid-bed urea granulation technology, thyssenkrupp Fertilizer Technology is supplying one of the world's leading technologies for the production of urea granules by means of the fluidized-bed process. More than 70% of the urea granules produced worldwide are manufactured by means of the UFT® fluid-bed urea granulation technology, which contributes to a large extent to secure food supply for the world. The emissions are below the statutory emission limits for urea dust and ammonia.

For this project, thyssenkrupp Fertilizer Technology has been contracted to supply two granulators and two exhaust air scrubbers for the urea granulation unit, which will be used for the manufacture of fertilizers. The granulation unit will have a total production capacity of 6,200 metric tons per day, made up of two identical trains with respective capacities of 3,100 metric tons per day each. The proven, licensed UFT® fluid-bed urea granulation technology is being successfully used in more than 70 plants in the fertilizer industry worldwide. This technology is one of the pillars of thyssenkrupp Uhde's successful fertilizer portfolio.

Perdaman Chemicals and Fertilisers' urea project will provide important impetus for the Western Australian economy by creating around 2,000 jobs during the three-year construction phase. On completion, the plant will create more than 200 permanent jobs in Karratha, Western Australia.

Dr. Cord Landsmann, CEO thyssenkrupp Uhde: "This project for Perdaman marks an important milestone that will further consolidate our position as a technology supplier in the fertilizer industry. We are proud to have been selected as the partner to supply our highly efficient urea granulation technology. With our proven UFT® fluid-bed urea granulation technology, we guarantee the production of a consistent top-quality product and, at the same time, strict compliance with environmental standards. We are pleased to be supplying the market with advanced technologies for fertilizer production and furnishing our global customers with the best solutions."

Vikas Rambal, Chairman Perdaman said: "We are pleased to be building Australia's biggest downstream project, which represents a major investment in the Australian production sector. This state-of-the-art plant will contribute to Australia having a safe and reliable source of high-quality urea, thus supporting the farmers and food producers. The decision in favor of thyssenkrupp Fertilizer Technology as the technology supplier and licensor for this urea project not only speaks for the competence of thyssenkrupp Fertilizer Technology, but also for confidence in the ability of the company to supply reliable solutions for the fertilizer industry."

About Perdaman

Perdaman is a multinational group based in Western Australia with a long-standing track record in involvement within a diverse range of markets. From investments in fertiliser production to help our farmers produce crops, to the ownership and management of shopping centres, from the production and distribution of pharmaceuticals to provide better healthcare, to recruitment & migration services and advanced energy solutions, we are an innovative company that actively seeks out new opportunities. Integral to this is our corporate culture of creating leaders and growing together as a team, and all our operations are backed by extensive financial services to ensure strength and growth. We are also highly involved in the community and actively give back – from supporting local sporting teams to contributing towards better education. We do what we do with passion, and we do what we do with a sincere desire to create a better tomorrow. For more information, visit www.perdaman.com.au

About thyssenkrupp Fertilizer Technology GmbH

thyssenkrupp Fertilizer Technology is a fully owned subsidiary of thyssenkrupp Uhde GmbH, but still an autonomous and independent licensor in the field of urea granulation. As such, its portfolio includes the granting of licenses for the use of UFT® fluid-bed urea granulation technology, the preparation and creation of process design packages, the supply of proprietary equipment (granulators and exhaust air scrubbers) and spare parts, and studies of all kinds. Having already gained 45 years' experience since realizing the first industrial-scale plant, thyssenkrupp Fertilizer Technology focuses purely on urea granulation and the continuous optimization and refinement of the process.

About thyssenkrupp Uhde

thyssenkrupp Uhde combines unique technological expertise and decades of global experience in the engineering, procurement, construction and service of fertilizer and chemical plants. We develop innovative processes and products for a more sustainable future and thus contribute to the long-term success of our customers in almost all areas of the chemical and fertilizer industry. Our portfolio includes leading technologies for the production of base chemicals, fertilizers and polymers as well as complete value chains for green hydrogen and sustainable chemicals. To find out more, visit: www.thyssenkrupp-uhde.com

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