

## NEWSLETTER

### RUSSIAN ENGINEERING COMPANY NIIK (R&D INSTITUTE OF UREA) HAS SUCCESSFULLY COMPLETED RELINING OF UREA SYNTHESIS REACTOR IN HUNGARY



Between October and December 2018, NIIK's specialists performed repair works for relining of Urea Synthesis Reactor R202 at Nitrogénművek Zrt. Urea Production Plant (Pétfürdő, Hungary).

Urea Production Unit Pétfürdő II with a capacity of 600 MTPD (Stamicarbon technology) has been operational since 1975. Since 2017, lining leakages have increased the number of unplanned shutdowns of the reactor. Taking into account an extensive NIIK background in inspection&repairs, Nitrogénművek decided to involve NIIK's specialists for urea reactor rehabilitation.

Within the specified period, NIIK's specialists developed repair technical documentation for manufacturing liner parts and expanding devices followed by technical assistance for the production thereof; performed a whole range of assembly and welding works for installing 32 liner belts including NDT of welding joints.

Upon Nitrogénművek's request, NIIK carried out repairs of carbon steel shell and overflow pipe as well as performed corrosion inspection of the top and bottom parts of urea reactor resulting a report with the list of defects and recommendations for their elimination during the next Plant Turnaround.

In early January, Urea Plant started production and is currently fully operative. The Management of Nitrogénművek Zrt. highly appreciated the quality of the work performed and professional competences of NIIK staff.

Nitrogénművek Zrt. constantly sets new objectives on modernization of its production capacities, therefore the Hungarian fertilizer producer and the leader of the Russian engineering have a high potential for future cooperation.

#### **Nitrogénművek Zrt.**

*Based in Pétfürdő and established in 1931, Nitrogénművek Zrt. is a part of Bige Holding Group – the Parent company's holding network. Nitrogénművek Zrt is the only nitrogen-fertilizer producer in Hungary. It has a complete fertilizer production chain. The range of products includes urea, ammonium nitrate and compound fertilizers (CAN, UAN) under the GENEZIS brand.*

#### **NIIK (R&D Institute of Urea)**

*NIIK is a leading Russian engineering company offering a wide range of services for companies engaged in the production of ammonia, nitric acid, ammonium nitrate, urea, etc. It provides state-of-the-art technological solutions aimed at production efficiency improvement, energy consumption reduction and increasing the quality of the finished product. NIIK has unique technical know-hows and extensive experience of revamping urea reactors designed on the technologies of various Licensors.*

For more information, please contact us:

Email: [chausova@niik.ru](mailto:chausova@niik.ru); [grachev\\_dv@niik.ru](mailto:grachev_dv@niik.ru)

Tel. 8(8313) 39-49-58

Research and Design Institute of Urea and Organic  
Synthesis Products (NIIK)

31, Griboedov str., Dzerzhinsk, Russia, 606008