



Joint stock company
«Research and design institute of urea
and organic synthesis products»
(JSC «НИИК»)

Why partner with NIİK?



НИИК remains a leader in a national engineering sector

- More than 65 years of experience in mineral fertilizers market
- More than 150 production units already built
- More than 500 inventions
- Annual revenue (2017) US\$ 33 million



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BUSINESS GEOGRAPHY

Our partners:

- Mitsubishi Heavy Industries,
- Toyo Engineering Corporation,
- Linde AG,
- Saipem S.p.A,
- Stamicarbon BV,
- Casale SA,
- De Dietrich Process Systems GmbH,
- Chemoproject Nitrogen AS,
- HaldorTopsoe A/S,
- Maire Tecnimont SpA,
- AIR LIQUIDE Global E&C Solutions

Our customers :

- EuroChem,
- UralChem,
- PhosAgro
- Ammonii,
- Acron,
- Kuibyshev Azot,
- TogliattiAzot,
- OSTCHEM group,
- Grodno Azot,
- KazAzot,
- Gasprom Neftehim Salavat,
- ShchekinoAzot,
- Metafrax etc.



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International cooperation

NIIK is a member of international fertilizer associations-
International Fertilizer Industry Association (IFA),
Arab Fertilizer Association (AFA),
Fertilizer Association of India (FAI).



The Fertiliser Association of India



Arab Fertilizer Association
since 1975



**International
Fertilizer Industry
Association**



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НАУЧНО-ИССЛЕДОВАТЕЛЬСКИЙ
И ПРОЕКТНЫЙ ИНСТИТУТ
КАРБАМИДА

NIIK – vast engineering experience in Russia and abroad

NIIK's personnel > 700 employees



**Complex office,
Novomoskovsk,
Tula region**

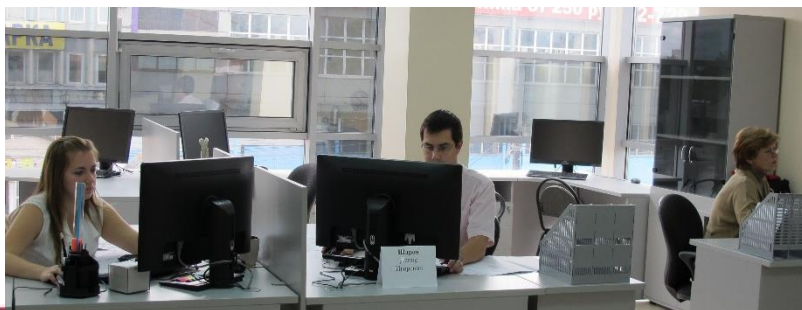


**Engineering &
Design Department**

Dzerzhinsk



R&D Department

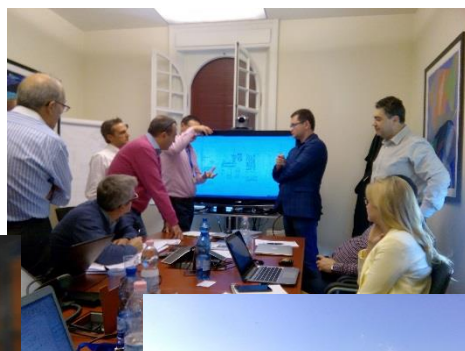
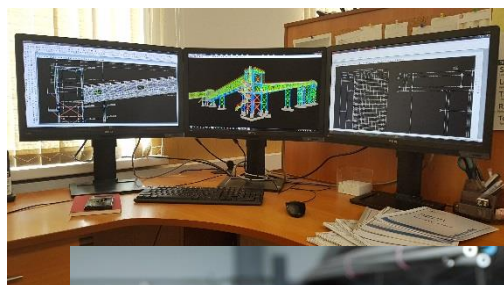


**Nizhny Novgorod
office**



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И ПРОЕКТНЫЙ ИНСТИТУТ
КАРБАМИДА

Project implementation: from A to Z



- Engineering
- Construction management
- Packaged delivery of equipment
- Consulting services
- Ecology
- Computer process simulator development
- Advanced Process control system development
- Diagnostic and repair
- Metrology
- Analytical center



Our patented technologies

- **UREA TECHNOLOGIES**
- **MELAMINE TECHNOLOGIES**
- **NEW TYPES OF FERTILIZERS**
- **ADVANCED REPAIR METHODOLOGIES**
- **ECO FRIENDLY TECHNOLOGIES, BENEFITING THE EARTH**



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AUTHORIZATIONS AND APPROVALS REQUIRED FOR DESIGNING, CONSTRUCTION AND EXPERT EXAMINATION OF INDUSTRIAL SAFETY

NIIK is a member of:

- Self-regulatory non-profit organization
«Neftegazohimproekt»
- Self-regulatory non-profit organization
«Nizhny Novgorod builders Association»
- Self-regulatory non-profit organization
«Expertprombezopasnost»



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NIIK gained chartered status from Chartered Quality Institute, a grade of CQI membership is held by General Director Mr Oleg Kostin.



Human resources

Total number of employees ~700 persons

Average age of the staff– 42 years

Average work experience of the staff– 7 years

- **personnel qualification**
- **qualification required for members of self-regulatory organizations**
- **necessary trainings to gain additional experience**
- **technical knowledge and skills training**



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**Licensed up-to-date software for design,
engineering and scientific research**



Office system - more than 500 licenses

CAD system – more than 170 licenses

AVEVA complex for 3D design – more than 30 workstations

Calculation programmes – more than 80 licenses

Every work station is equipped with modern tools meeting all necessary requirements for engineering and research working environment.



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Project management on EPC basis



Engineering



Procurement



Construction



Commissioning



НИИК'S EXPERIENCE IN ADAPTATION OF FOREIGN LICENSOR'S TECHNOLOGIES



JSC «Cherepovetsky Azot» (Cherepovets, Russia)

Ammonia unit, capacity 2200 t/d in cooperation with Mitsubishi Heavy Industries (Japan)

LLC Baltic Urea Plant (Leningrad region, Russia)

Ammonia unit with capacity 3000 TPD, urea unit with capacity 3535 TPD in cooperation with Saipem SpA (Italy)

KuibyshevAzot (Togliatti, Russia)

Ammonia unit, capacity 1340 TPD in cooperation with Linde AG (Germany)

Cherepovetsky Azot (Cherepovets, Russia)

Urea unit, capacity 1500 TPD in cooperation with «Chemoproject Nitrogen AS» (Czech Republic)

NevAzot (EuroChem) (Nevinnomyssk, Russia)

Melamine unit, capacity 50 000 TPY in cooperation with «Lurgi» (Germany)

JSC «Ammony» (Mendelevsk, Tatarstan, Russia)

Chemical complex Methanol/Ammonia/Urea in cooperation with Mitsubishi Heavy Industries (Japan)

TogliattiAzot (Togliatti, Russia)

Urea unit, 2200 TPD in cooperation with Casale SA

JSC «Eurochem» (Novomoskovsk, Russia)

Revamp of urea unit in cooperation with Casale SA

JSC «Azot» (Cherkassy, Ukraine)

in cooperation with Casale SA

Salavatnefteorgsintez (Salavat, Russia)

Urea granulation unit, capacity 1400 MTPD in cooperation with Toyo Engineering Corporation (Japan)

JSC «Schekinoazot» (Schekino, Russia)

Hydrogen unit in cooperation with Haldor Topsoe A/S (Denmark)

CJSK «Korund-Cyan» (Dzerzhinsk, Russia)

Sodium cyanide unit in cooperation with EPC (Germany)



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