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DESIGN ENGINEERING

Production	complexes
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	Troduction	Complexes	
Metafrax, Gubakha, Russia	Ammonia-urea-melamine complex	 Development of detail design for site arrangement Adaptation of licenser's basic engineering package to Russian norms and regulations Authority package development (ISBL/OSBL) Construction of OSBL facilities on a turn-key basis (detail design, equipment procurement, assembly& installation, start-up&comissioning) 	2016 to present
Metafrax, Gubakha, Russia Casale S.A., Швейцария	Ammonia-urea-melamine complex	 Development of basic design for OSBL facilities and prilling tower Detail design (ISBL facilities' architectural and civil documentation) 	
Ammoni, Mendeleevsk, Tatarstan, Russia	Ammonia- methanol- urea complex	 Development of authority package (ISBL/OSBL) Construction of OSBL facilities on a turn- key basis (detail design, equipment procurement, assembly& installation, start- up & commissioning) 	2010-2015
Ammoni, Mendeleevsk, Tatarstan, Russia Mitsubishi Heavy Industries, Ltd. (MHI), Japan	Ammonia- methanol- urea complex	 Adaptation of licenser's documentation on ISBL facilities to Russian norms and regulations Detail design (architectural and civil documentation for urea production ISBL facilities) Licenser's equipment certification 	2010-2015
ICM, Saint-Petersburg, Russia	Ammonia –urea complex (Vistino, Kingisepp, Leningrad region)	 Adaptation of BE/FEED licensor's documentation to Russian norms and Regulations Development of authority package (ISBL/OSBL) 	2013-2015
Ammonia production units			

Haldor Topsoe (HTAS), Denmark	Ammonia unit modernization aimed at capacity increase up to 2000 TPD at Uralchem site (Kirovo-Chepetsk, Kirov region)
Tulagiprohim, Tula, Russia	Ammonia production unit and liquid ammonia storage unit (Kingisepp Plant)

- Adaptation of design basis to Russian 2015-2017 norms and regulations

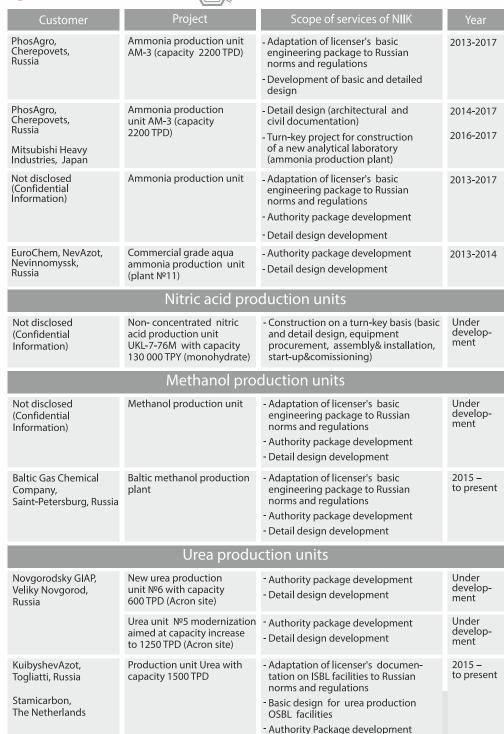
- Development of authority package including documentation for CO₂ removal unit

- Development of authority package for OSBL facilities

2014-2015







Customer	Project	Scope of services of NIIK	Year
Kuibyshev Azot, Togliatti, Russia	Technical modernization of urea unit № 4 (evaporation, hydrolysis and desorption sections)	- Detail design development	2016 - 2017
Minudobreniya, Perm, Russia Stamicarbon, The Netherlands	Urea production unit modernization aimed at capacity increase to 2700 TPD, new prilling tower construction	 Adaptation of licenser's basic engineering package to Russian norms and regulations Basic design documentation development for prilling tower Authority package development 	2015 - to present
Minudobreniya, Perm, Russia	Urea production unit modernization aimed at capacity increase to 2700 TPD, new prilling tower construction	- Detail design development	
Casale SA, Switzerland	Urea production unit and new prilling tower construc- tion (capacity 2200 TPD) at TogliattyAzot site	 -Adaptation of licenser's basic engineering package to Russian norms and regulations -Authority package development (including prilling tower and handling system) -Detailed design development 	2015 - to present
PhosAgro-Cherepovets, Cherepovets, Russia	Urea granulation unit, capacity 1500 TPD	- Authority package development - Detailed design development	2014 -2017
Russia	Technical modernization of urea production unit №2 aimed at capacity increase to 1650 TPD	- Authority package development - Detailed design development	2014 -2016
EuroChem, Nak Azot, Novomoskovsk, Russia	Technical modernization of urea production unit №2 aimed at capacity increase to 1500 TPD	- Authority package development - Detailed design development	2013 -2017
	Technical modernization of urea plant № 3 (second line) with capacity increase to 1450 TPD	- Authority package development - Detailed design development	2013 -2016
	UAN production unit on the basis of urea production plant № 2 (capacity 1200 TPD)	- Authority package development - Detailed design development	2013 -2014
	Revamp of urea unit №2 (gas vent elimination)	- Authority package development - Detailed design development	2012 -2015
	32,5% urea solution production unit (capacity 100000 TPY) including urea solution treatment unit on the basis of urea plant №2	- Authority package development - Detailed design development	2011 -2015





evaporation unit





Customer	Project	Scope of services of NIIK	Year
Chemoproject, Czech Republic	AZOMURES S.A. plant's prilling tower modernization aimed to capacity increase from 900 to 1425 TPD, keeping the tower's height and ensuring the same quality level	- Authority package development - Detailed design development	2012
Acron, Veliky Novgorod, Russia	Urea production units (№1-4) revamping aimed to capacity increase up to 2000 TPD and feedstock / energy saving	- Authority package development - Detailed design development	2009-2016
	Urea synthesis unit revamp (№5)	- Authority package development - Detailed design development	2013-2014
Azot, Kemerovo, Russia	Urea production unit revamp with high speed drum granulator installation	- Authority package development - Detailed design development	2011-2013
Kuibyshev Azot, Togliatti, Russia	Acid ammonia recovery unit downstream urea unit absorption tower	- Authority package development - Detailed design development	2011-2012
EuroChem, NAK Azot, Novomoskovsk, Russia	Technical modernization of evaporation unit № 5 for urea production unit №2 (capacity 1000 TPD)	- Authority package development - Detailed design development	2011-2012
Acron, Veliky Novgorod, Russia	Implementation of computer process simulator for personal training and knowledge assessment	-Computer-generated technological simulator for urea production assembly №5	2011-2012
	Evaporation system for urea production unit and prilling tower modernization with capacity increase	- Detailed design development	2011-2013
Maxam-Chirchik, Chirchik, Uzbekistan	Modernization and technical upgrading of urea unit	- Authority package development - Detailed design development	2010-2012
EuroChem, NevAzot, Nevinnomyssk, Russia	Modernization of unit №2 (urea plant №2)	- Authority package development - Detailed design development	2010-2011
EuroChem, NAK Azot, Novomoskovsk, Russia	Implementation of computer process simulator for personnel training and knowledge assessment	- Hard- and software complex	2010-2011
PhosAgro, Cherepovets, Russia	Urea plant production unit with capacity 1500 TPD, procured by «Chemoproject» (Czech Republic)	- Authority package development - Detailed design development	2010-2012
Design Institute «Salavatgasonephte- himproect», Salavat, Republic of Bashkortostan, Russia	Prilling tower for urea plant №24	-Adaptation of licenser's basic engine- ering package («TEC», Japan) to Russian norms and regulations -Authority package development -Detailed design development	2010-2011

Customer	Project	Scope of services of NIIK	Year
Phos Agro, Cherepovets, Russia	Implementation of compu- ter process simulator for personnel training and knowledge assessment	- Hard- and software complex	2010 - 2011
	Revamp of urea synthesis evaporation unit	- Authority package development - Detailed design development	2010
Kuibyshev Azot, Togliatti, Russia	Prilling tower revamp (urea plant №4)	- Detailed design development	2010
	Revamp of evaporation unit (urea plant №1, unit № 4)	- Detailed design development	2010
Salavatnefteorgsintez Salavat, Russia	Prilling towers revamp (urea plant №24)	- Authority package development - Detailed design development	2009-2010
Yokogawa Electric, Moscow	Development of control system for CO ₂ compressor with arrangement of a room for a set of technical devices at NAK «Azot»	- Detailed design development	2009
Acron, Veliky Novgorod, Russia	Design of granulated urea unit based on Rotoform technology	- Detailed design development	2009
PhosAgro AG - Cherepovetsky Azot, Cherepovets, Russia	Urea production unit with capacity 1500 TPD, procured by «Chemoproject» (Czech Republic)	- Authority package development - Detailed design development	2008-2012
Togliattiazot, Togliatti, Samara, Russia	Prilling tower modernization (urea plant)	- Detailed design development	2008-2009
Acron, Veliky Novgorod, Russia	Urea unit revamp with capacity increase and energy saving	- Authority package development - Detailed design development	2008
UralChem, Voskresensk Mineral Fertilizers, Voskresensk, Russia	Urea production unit with capacity 600 (1200) TPD	- Authority package development	2008
Acron, Veliky Novgorod, Russia	Urea unit №5 on the basis of relocated unit	- Authority package development - Detailed design development	2007–2011
EuroChem, NevAzot, Nevinnomyssk, Russia	Prilling tower revamp (urea unit, plant 2A)	- Authority package development - Detailed design development	2007–2009
Grodno Azot, Grodno, Belarus	Revamp of urea plant №4 with capacity increase	- Feasibility study - Architectural and civil design	2007–2012
EuroChem, NAK Azot, Novomoskovsk, Russia	Urea production unit on the basis of relocatable unit with capacity increase and energy saving	- Authority package development - Detailed design development	2007–2010
	Revamp of urea plant №3 with capacity increase to 2000 TPD	- Authority package development - Detailed design development	2007–2010









Customer	Project	Scope of services of NIIK	Year
Severodonetsk Azot Association, Severodonetsk, Ukraine	Development of basic design for urea unit revamp with capacity increase from 1200 up to 1500 TPD	- Authority package development - Detailed design development	2007-2010
EuroChem, NevAzot , Nevinnomyssk, Russia	Urea evaporation unit for melamine plant	- Authority package development - Detailed design development	2008-2010
Togliatti Azot, Togliatti, Russia	Technical upgrading of urea unit with integration of melamine unit	- Authority package development	2007-2008
KuibyshevAzot, Togliatti, Russia	Revamp of urea unit with capacity increase	- Authority package development - Detailed design development	2007-2008
Salavatnefteorgsintez Salavat, Russia	Basic design for urea prilling tower	- Authority package development - Detailed design development	2007-2008
Severodonetsk Azot Association, Severodonetsk, Ukraine	Development of basic design for urea unit revamp with capacity increase from 1000 up to 1200 TPD	- Authority package development - Detailed design development	2006-2007
AB Achema, Lithuania	Urea production unit based on relocatable equipment	-Authority package development-Detailed design development-Development of operational manuals	2006-2008
Phos Agro, Cherepovets, Russia	Revamping of distillation unit with capacity increase (urea production plant)	- Authority package development - Detailed design development	2007
EuroChem, NAK Azot, Novomoskovsk, Russia	Implementation of compu- ter process simulator for personnel training and knowledge assessment	- Hard- and software complex	2006-2008
Ostchem Group, Azot, Cherkassy, Ukraine	Revamping of urea unit M-6	- Authority package development - Detailed design development	2006-2010
Salavatnefteorgsintez, Salavat, Russia	Revamping of urea plant №50	- Authority package development - Detailed design development	2006-2008
Fertalge Industries SPA, Algeria	Prilling tower for urea production	- Authority package development - Detailed design development	2006-2008
Dorogobuzh, Verkhnedneprovsky, Smolensk region, Russia	Urea production unit based on relocatable equipment, urea storage unit, prilling tower	- Authority package development	2006-2007
Grodno Azot, Grodno, Belarus	Revamp of urea production unit, installation of recuperator	- Detailed design development	2006
Acron, Veliky Novgorod, Russia	Installation of the 5th urea synthesis reactor	-Detailed design development	2006
NevAzot, Nevinnomyssk, Russia	Revamp of urea production unit №2	- Authority package development - Detailed design development	2006

Customer	Project	Scope of services of NIIK	Year
Melamine production			
EuroChem, NevAzot, Nevinnomyssk, Russia	Melamine unit by LURGI AG technology	- Authority package based on foreign licensor's basic engineering package	2007-2011
		- Detailed design of architectural and civil part	
Togliatti Azot, Togliatti, Russia	Technical upgrading of urea unit with integration of melamine unit	- Authority package development	2007-2008
Acron, Veliky Novgorod, Russia	Melamine production unit	- Feasibility study - Environmental impact investigation	2006-2007
	Hydrogen p	production	
Shchekinoazot, Shchekino, Russia	Hydrogen recovery unit	 Acting as general design contractor Authority package development based on foreign licensor's basic engineering package Detailed design development 	2010-2011
	Ammonium nitr	rate production	
TomskAzot, Seversk, Tomskiy region, Russia	Modernization of the existing Drum Granulation unit to shift it to the production of the granulated ammonium nitrate	- Design documentation development	2017
KazAzot, Aktau, Kazakhstan	Ammonia nitrate production unit modernization: HSDG for ammonia nitrate manufacturing	- Technical solution development - Detail design development	2011-2012
Other production			
Volzhskiy Orgsintez- Volzhsky, Volgograd region, Russia	Sodium dimetilditiocarba- mate production unit, capacity 15000 tons per year	- Authority package development - Detailed design development	Under develop- ment











	R&D INSTITUTE OF UREA			
	Customer	Project	Scope of services of NIIK	Year
	Korund-Cyan, Dzerzhinsk, Russia	Technical modernization of the cooling water unit (Sodi- um cyanide production unit, building B50, second line)	- Authority package development - Detailed design development	2016-2017
		Sodium cyanide production unit technical renovation and construction (second line)	- Detailed design development	2016
		Alcali storage unit moderni- zation (sodium cyanide production unit, building B80, second line)	- Authority package development - Detailed design development	2016
		Sodium cyanide storage unit technical modernization	- Detailed design development	2015
		Sodium cyanide production unit with capacity of 80000 TPD (first and second line)	 Acting as general design contractor Authority package development based on foreign licensor's basic engineering package (EPC, Germany) Detailed design development 	2010-2012
	QAFCO (Qatar Fertilizer Company), Qatar	Multipurpose High Speed Drum Granulation (HSDG) Pilot Plant for production of granulated urea with additives, capacity 100 kg per hour	-Technology licensing - Engineering	2014-2015
	PVFCCo, Phu My I, Ba Ria Vung Tau, Vietnam	High Speed Drum Granulation unit for production of compound fertilizers (capacity 100 kg/h)	- Technology licensing - Engineering	2014-2015
	Kuibyshev Azot, Togliatti, Russia	Implementation of catalytic purification system, compressor plant, outdoor installations and production buildings (energy efficient cyclohexanol production unit installation project, capacity 140000 TPY)	- Authority package development - Detailed design development	2012-2014
	Nizhfarm, Nizhny Novgorod, Russia	Grass-root gel production plant	- Adaptation of licenser's basic engineering package («Chemofarm engineering», Belgrad, Serbia) to Russian norms and regulations	2011
	Zawolzhsky Motorny Zawod, Zavolshye, Russia	Technical upgrading of pipelines for acids solution discharge in heat-treating workshop	- Detailed design development	2011
	TIKO-Plastic, Dzerzhinsk, Russia	Expanding capacity of plastic film production plant. Production building construction	 Acting as general design contractor Authority package development Detail design development (architectural and civil documentation) 	2010-2011

Customer	Project	Scope of services of N I IK	Year
Nexis, Perm, Russia	CAN (capacity 10 000 TPY) and magnesium nitrate production units (solid or liquid form)	 -Development of initial data for design works -Development of design documentation for nonstandardized equipment 	2010
AutoVAZ, Togliatti, Russia	Technical upgrading of liquid ammonia evaporation unit	 -Authority package development -Detailed design development -Adaptation of technical rules to current regulations 	2010
Zawolzhsky Motorny Zawod, Zavolshye, Russia	Construction of testing station for diesel engines	-Turnkey project	2009
Korund, Dzerzhinsk, Russia	Lacquer, paint and polyester resins production unit	- Acting as general design contractor -Detailed design development (infrastructure)	2009
	Storage	e units	
Metafrax, Gubaha, Russia	Revamp of urea storage unit unloading section	- Authority package development - Detailed design development	2013
Korund, Dzerzhinsk, Russia	Revamp of chlorine storage unit, adaptation to industry safety requirements	- Detailed design development	2009
Ammoni, Mendeleevsk, Russia	Construction of urea storage complex	- Basic design	2009-2008
Pervouralsky novotrubny works, Perovuralsk, Russia	Revamp of liquid ammonia storage unit № 33	- Authority package development - Detailed design development	2006-2007
Zawolzhsky Motorny Zawod, Zavolshye,	Revamp of sulphuric acid storage unit	-Turnkey project	2006-2007
Russia	Petrol storage unit	-Turnkey project	2006
Nizhegorodsky machine-building plant, Russia	Revamping of chlorine storage unit and chlorinator	-Turnkey project	2006-2007
Kuibyshev Azot, Togliatti, Russia	Revamping of urea storage unit	- Authority package development - Detailed design development	2007
TIKO-Plastic, Dzerzhinsk, Russia	Feedstock and final product storage facilities	- Authority package development - Detailed design development	2006













Customer	Project	Scope of services of NIIK	Year
		GN SERVICES	
Amec Foster Wheeler, Moscow, Russia	Methanol production unit with capacity 10000 TPD for Yakut Fuel and Energy Company	- Investment feasibility study	Under develop- ment
Not disclosed (Confidential Information)	Methanol production unit	- Investment feasibility study	2017
Baltic Gas Chemical Company, Saint-Petersburg, Russia	M-15 production unit with capacity 15000 TPY for Chayandinskoye field	- Development of declaration of intention	2017
CREON-ENERGY, Moscow, Russia	Methanol production unit with capacity 1mln TPY (Novoroscement site)	- Methanol production unit tie- up for site infrastructure	2017
Jugterminalproect, Moscow, Russia	Methanol- Ammonia- Urea complex (Taman region)	- Front-end engineering design	2017
Azot, Kemerovo, Russia	UAN production unit with capacity 150000 TPD	- Investment feasibility study	2017
Technoleasing, Moscow, Russia	Methanol production unit (Skovorodino, Amur region)	- Investment feasibility study	2017
Novgorodsky GIAP, Veliky Novgorod, Russia	- Sulfuric acid production unit - Wet-process phosphoric acid production unit - Monoammonium phosphate (MAP) and\or diammonium phosphate (DAP) production unit	- Investment feasibility study	2016
Metafrax, Gubakha, Russia	Ammonia-urea-melamine complex	 - Reviewing options for site location - Development of declaration of intention - Environmental impact assessment - Conducting public hearings 	2015-2016
OJSC MMC Norilsk Nickel, Moscow, Russia	Urea production complex (Dudinka site)	- Investment feasibility study	2016
LLC Zhilevskaya kremniorganika, Sitne-shchelkanovo, Moscow region, Russia	Ammonia-urea complex	- Investment feasibility study	2016
ShchekinoAzot, Shchekino,	Methanol production unit with capacity 500000 TPY	- Reviewing options for methanol unit location at ShchekinoAzot site	2016
Russia	Ammonia-urea complex	- Development of declaration of intention	2016
	Sulphuric acid production unit construction	- Site location estimation	2015
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Customer	Project	Scope of services of NIIK	Year
Grodno Azot, Grodno, Belarus	Nitrogen complex (ammonia-urea-hydrogen)	- Investment feasibility study	2015
KuibyshevAzot, Togliatti, Russia	Urea production unit	- Investment feasibility study	2014
Sibmetahim, Tomsk, Russia	Chemicals manufacturing unit (synthetic fluid \ ammonia-urea melamine complex)	- Expert economic assessment	2014
CREON-ENERGY, Moscow, Russia	Methanol production with capacity 5000 TPD (Ust-Luga region)	- Investment feasibility study	2014
Rosstroy, Novocherkassk, Russia	Ammonia-urea complex	- Investment feasibility study	2014
PhosAgro, Cherepovets, Russia	Granulated urea production unit with capacity 1500 TPD	- Pre-feasibility study	2014
	Ammonia production unit AM-3 (capacity 2200 TPD)	- Pre-feasibility study	2013-2014
National Chemical Company, Russia	Gaz-chemical complex (Kozmino, Primorsky territory)	-Declaration of intention development -Environmental Impact assessment -Conducting public hearings	2013
ICM, Saint-Petersburg, Russia	Ammonia-urea complex (Kingisepp region, Leningrad region)	-Declaration of intention development -Environmental Impact assessment	2012-2013
Minudobreniya, Rossosh, Russia	Ammonia-urea complex	- Investment feasibility study	2012
ShchekinoAzot, Shchekino,	Ammonia-urea complex	- Investment feasibility study	2010-2011
Russia	Hydrogen production unit	- Investment feasibility study	2011
Balakovo Mineral Fertilisers (PhosAgro), Balakovo, Russia	Above-ground ammonia storage unit	- Investment feasibility study	2010









INDIVIDUE OF ONLY			
Customer	Project	Scope of services of NIIK	Year
Т	ECHNICAL ASSESSMENT	& INSPECTION SERVICES	
Gasprombank, Moscow, Azot, Kemerovo, Russia	Technical inspection of SDS- Azot urea production facilities	- Equipment & urea production process condition assessment, development of engineering solutions optimizing technological processes, reducing energy consumption and enhancing reliability of unit operation	2017
Grodno Azot, Grodno, Belarus	Development of technical solutions for distillation gases treatment unit (urea plant Nº2)	- Investment feasibility study	2017
EuroChem, NAK Azot, Novomoskovsk, Russia	Technological inspection of the prilling tower (complex fertilizers production plant, ammonium nitrate unit)	 Technical inspection Issuing recommendations and developing engineering solutions optimizing prilling tower technological mode 	2016
Azot, Kemerovo, Russia	Complex technical inspection of urea production plant (Tecnimont technology)	 Technical inspection Development of engineering solutions optimizing technological processes, reducing energy consumption and enhancing reliability of unit operation Investment evaluation 	2015
EuroChem, NevAzot, Nevinnomyssk, Russia	Technical inspection (urea plant № 2, urea units 1-3)	 Technical inspection Development of engineering solutions reducing energy consumption and increasing capacity Feasibility study 	2015
Research Institute for Mineral Fertilizers (NIUIF), Moscow, Russia	Development of a reference guide on most appropriate technologies used to produce ammonia, mineral fertilizers and mineral acids (sections developed by NIIK: ammonia, NA, AN, CAN, urea, UAN). Scientific and technical support to get the approval of expertise		2015
EuroChem, NevAzot, Nevinnomyssk, Russia	Complex technical inspection (melamine\urea units №2a)	 Technical inspection Development of engineering solutions optimizing technological process during operation with melamine unit 	2014
FNTC Group spol.s r.o, Czesh Republic	Technical inspection of urea plant at FerganaAzot	- Technical inspection	2013
EuroChem, NAK Azot, Novomoskovsk, Russia	Technological inspection (urea plant №3, second line) aimed at capacity increase to 1600 t/d	- Technical inspection	2012
	32,5% urea solution production unit (capacity 100000 TPY) including urea solution treatment unit on the basis of urea plant №2 evaporation unit	- Urea units technical inspection considering the construction of a new unit	2011

Customer	Project	Scope of services of NIIK	Year
Acron, Veliky Novgorod, Russia	Technical inspection of urea plant aimed at capacity increase and energy saving	- Technical inspection	2010-2011
Phos Agro, Cherepovets, Russia	Technological monitoring of urea unit performance in order to reduce ammonia consumption	- Technical inspection	2009
Severodonetsk Azot Association, Severodonetsk, Ukraine	Process monitoring of urea unit operation	- Technical inspection - Recommendation issuing for capacity increase and energy saving	2008
Minudobreniya, Perm, Russia	Monitoring of urea production unit equipment	- Technical inspection	2006













Customer	Project	Scope of services of NIIK	Year
	DIAGNOSTICS & F	REPAIR SERVICES	
Nitrogénművek Zrt., Pétfürdő Hungary	Corrosion and technical inspection of stripper pos. E-201 (urea production)	Nondestructive testingElectro-hydro- mechanical cleaning of heat exchanger tubes	2017
«Meleuz mineral fertilizers», Meleuz, Russia	Replacement of old tubes of evaporation unit (pos.T-10, ammonium nitrate produc- tion unit)	 Nondestructive testing Development of repair method& technique Repair works 	2017
EuroChem, NevAzot, Nevinnomyssk, Russia	Cleaning heat exchangers pos. E-302 and E-302B (urea production plant №2A)	- Equipment cleaning by thermo- pneumo- abrasive method	2017
	Technical and corrosion inspection of urea synthesis reactors pos.6/1 and 6/3 (urea plant №2)	Nondestructive testing Recommendations issue for equipment operating and repairing	2017
Minudobreniya, Rossosh, Russia	Technical inspection of heat- exchanging tubes (plant AM-2)	Nondestructive testing Recommendations issue for equipment operating and repairing	2017
Grodno Azot, Grodno, Belarus	Repair of the lining of the synthesis reactor manhole (pos. R-201, urea plant №3) Technical and corrosion inspection of urea synthesis reactor pos. R-201 and HP condenser pos. E-202 (urea plant №3)	 Technical documentation development Quality control of the works performed Inspection Issuing recommendations for repairing 	2017
	Technical and corrosion inspection of urea synthesis reactor pos. R-201, HP stripper pos. E- 201 and HP condenser pos. E- 202 (urea plant № 4)	- Inspection - Issuing recommendations for repairing	2017
TogliattiAzot, Togliatti, Russia	Inspection and develop- ment of recommendation for 14-R-1 synthesis reactor relining (urea production unit 08K)	- Nondestructive testing - Issuing recommendations for repairing	2017
Kuibyshev Azot, Togliatti, Russia	Corrosion and technical inspection of the main technological equipment of urea production unit	 Nondestructive testing Issuing recommendations for repairing 	2017
EuroChem, NevAzot, Nevinnomyssk, Russia	Corrosion inspection and technical supervision of repair works on distillation column for heavy fractions (pos.D-2203, №12A)	- Nondestructive testing - Recommendations' issue for repairing - Quality control of the works performed	2017
PhosAgro Cherepovets, Russia	Inspection of heat- exchanger tubes working under pressure	Nondestructive testing Issuing recommendations for equipment operating and repairing	2017



Customer	Project	Scope of services of NIIK	Year
ZNIGO, Borisoglebsk, Voronezh region, Russia	Inspection of heat exchanger tubes of reflux condenser (urea production unit)	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2017
Sorovskneft, Tyumen, Russia	Inspection of heat exchanger tubes of S&T oil heaters	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2016
EuroChem, NevAzot, Nevinnomyssk, Russia	Inspection of heat exchanger tubes (urea plant 2A)	Nondestructive testing Issuing recommendations for equipment operating and repairing	2016
	Synthesis reactor dome relining (pos.6/1, plant №2)	Development of repair method& techniqueRepair works	2016
Grodno Azot, Grodno, Belarus	Synthesis reactor relining on 2400 mm height (pos. R-201, Urea-3)	Nondestructive testing Issuing recommendations for equipment operating and repairing	2016
	Technical and corrosion inspection of HP reactor pos. R-201, HP stripper pos. E-201(Urea-3)	Nondestructive testing Issuing recommendations for equipment operating and repairing	2016
Egyptian Fertilizers Company (EFC), El Ain Sukhna, Egypt	Relining of urea reactor 322-R-00 (Urea Plant EFC-1 Suez Fertilizers Co.)	 Inspection Development of repair method & technique Repair works 	2016
UralChem, Azot, Berezniki, Russia	Relining of urea synthesis reactor pos. R-901	Development of repair method& technique Repair works	2016
EuroChem, NAK Azot, Novomoskovsk, Russia	Inspection of heat exchanging tubes using eddy current method (urea plant Nº 3, second line)	Nondestructive testing Issuing recommendations for equipment operating and repairing	2016
	Corrosion and technical inspection of urea synthesis reactor pos. 6/1 (urea plant №2)	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2016
PhosAgro Cherepovets, Russia	Eddy-current testing of heat- exchanger tubes working under pressure	Nondestructive testingIssuing recommendations for equipment operating and repairing	2016
	Eddy-current testing of heat- exchanger tubes of carbamate condenser pos. E-202	Nondestructive testing Issuing recommendations for equipment operating and repairing	2016
«Meleuz mineral fertilizers», Meleuz, Russia	Replacement of old tubes of evaporation unit (pos.T-10, ammonium nitrate production unit)	 Nondestructive testing Development of repair method& technique Repair works 	2015
Grodno Azot, Grodno, Belarus	Corrosion and technical inspection of synthesis reactor pos.R-201, high-pressure scrubber pos. E-203, high-pressure stripper pos. E-201, high-pressure condenser pos.E-202 (urea unit 3 and urea unit 4)	- Nondestructive testing - Issuing recommendations for equipment operating and repairing	2015







R&D INSTITUTE OF UREA			
Customer	Project	Scope of services of NIIK	Year
Nitrogénművek Zrt., Pétfürdő Hungary	Corrosion and technical inspection of stripper pos. E-201 (urea production)	Nondestructive testing Issuing recommendations for equipment operating and repairing	2015
Azot, Cherkassy, Ukraine	Development of technical documentation to replace three lining belts of cylindrical section of urea synthesis reactor	 Technical documentation development Field supervision during manufacturing of equipment parts 	2015
Minudobreniya, Rossosh, Russia	Inspection of heat exchanging tubes of nitrous gases coolers (nitric acid production unit AK-72, the second stage)	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2015
Togliatti Azot, Togliatti, Russia	Corrosion and technical inspection of the main technological equipment, pipelines and valves for urea plant Nº1,2	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2015
Phos Agro Cherepovets, Russia	Inspection of heat exchanging tubes operating under pressure	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2015
DniproAZOT, Dneprodzerzhinsk, Ukraine	Technical inspection of heat exchanger equipment (urea plant №1, urea plant №2)	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2014
Grodno Azot, Grodno, Belarus	Corrosion inspection of HP urea synthesis reactor pos. R-201, HP stripper pos. E-201, HP scrubber pos. E-203 (urea plant Nº3); HP stripper pos. E-201, HP condenser pos. E-202, additional heat exchanger section for preheater pos. E-302 (urea plant Nº4)	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2014
	Repair of two lining belts (urea synthesis reactor pos. R-201, urea plant №3)	Technical documentation developmentQuality control of the works performed	2014
Azot, Cherkassy, Ukraine	Corrosion and technical in spection of gas pipelines, HP heat exchangers, tanks and vessels of plant M-6 (synthesis reactor pos. R-201, stripper pos. E-201, conden- ser pos. E-202, pipelines reg. No 481, 532, 534, 535)	Nondestructive testing Issuing recommendations for equipment operating and repairing	2014
	Inspection of heating chamber exchanging tubes evaporation unit pos. 5/1 and 5/2, plant M-9)	 Technical documentation development Quality control of the works performed 	2014
DniproAZOT Dneprodzerzhinsk, Ukraine	Corrosion and technical in spection of lining and internal devices (reactor, stripper, condenser, scrubber) for urea plant № 1 and urea plant № 2	Nondestructive testing Issuing recommendations for equipment operating and repairing	2014
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Customer	Project	Scope of services of NIIK	Year
Kuibyshev Azot, Togliatti, Russia	Corrosion and technical inspection of main equipment for urea plant Nº 4	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2014
EuroChem, NAK Azot, Novomoskovsk, Russia	Corrosion inspection of heat exchange equipment (urea plant Nº3 (line 2)	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2014
Severodonetsk Azot Association, Severodonetsk, Ukraine	Corrosion and technical inspection of synthesis reactors internal surface (urea plant M-3)	Nondestructive testing Issuing recommendations for equipment operating and repairing	2013
Azot, Cherkassy, Ukraine	Inspection and surveying of reformer and heat exchanger equipment for plant A-5	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2013
Grodno Azot, Grodno, Belarus	Corrosion inspection of urea synthesis reactor for urea plant № 4	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2013
	Technical inspection of urea synthesis reactor and HP condenser for urea plant №3	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2013
Azot, Kemerovo, Russia	Synthesis reactor repair support services	Technical documentation developmentTechnical inspectionQuality control of the works performed	2013
PhosAgro Cherepovets, Russia	Inspection of heat exchanging tubes operating under pressure	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2013
EuroChem, NAK Azot, Novomoskovsk, Russia	Corrosion and technical inspection of main technological equipment (urea plant №3 (first line)	Nondestructive testing Issuing recommendations for equipment operating and repairing	2013
Acron, Veliky Novgorod, Russia	Inspection of heat exchanging tubes of condenser pos. T-506 (urea unit № 5)	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2013
	Corrosion and technical inspection of urea synthesis reactor K-501(urea unit № 5)	Nondestructive testing Issuing recommendations for equipment operating and repairing	2013
EuroChem, NevAzot, Nevinnomyssk, Russia	Corrosion inspection using eddy current testing of equipment (plant № 2A, 12A)	Nondestructive testing Issuing recommendations for equipment operating and repairing	2013
AB Achema, Lithuania	Corrosion inspection of urea synthesis reactor (Ø1600mm) and HP mixer	Nondestructive testing Issuing recommendations for equipment operating and repairing	2013
FNTC Group spol.s r.o, Czesh Republic	Corrosion and technical inspection of urea plant, ammonium nitrate and nitric acid units for FerganaAzot	Nondestructive testing Issuing recommendations for equipment operating and repairing	2013







R&D INSTITUTE OF UREA			
Customer	Project	Scope of services of NIIK	Year
Azot, Cherkassy, Ukraine	Corrosion and technical inspection of equipment (urea plant M-2)	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2013
Grodno Azot, Grodno, Belarus	Inspection of absorber ferromagnetic heat exchanger tubes (ammonia plant № 4)	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2013
Razi Petrochemical Company Iran	Corrosion inspection of urea plant equipment	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2012-2013
Acron, Veliky Novgorod, Russia	Corrosion and technical inspection of distillation column pos. 7/2 (urea plant)	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2012
Salavat Neftekhim- remstroy, Salavat, Russia	Repair of urea synthesis reactor pos. 6-1, 6-2 (Gas and Chemical plant «Gasprom nephtehim Salavat», plant № 50)	 Corrosion and technical inspection Repair works Quality control of the works performed 	2012
Grodno Azot, Grodno, Belarus	Heat- exchanger tubes inspection (HP equipment of urea plant №3)	- Nondestructive testing	2012
Azot, Cherkassy, Ukraine	Ferromagnetic heat- exchanger tubes inspection (pos. 1140-C, ammonia plant A-5)	- Nondestructive testing	2012
	Corrosion and technical inspection of equipment (urea plant M-6)	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2012
Azot, Kemerovo, Russia	Emergency repair of the lining of synthesis reactor pos. R-901 (urea plant)	Location of the defectReactor body repairingQuality control of the works performed	2012
EuroChem ,NevAzot, Nevinnomyssk, Russia	Corrosion and technical inspection of equipment (urea plant №2)	 Nondestructive testing Issuing recommendations for equipment operating and repairing 	2012
Concern Stirol, Gorlovka, Ukraine	Complex repair of synthesis reactor pos. R-901 (urea plant, location1)	 Technical documentation development Repair works Technical inspection of the works performed 	2012-2013
	Emergency repairing of synthesis reactor pos. R-901 (urea plant, location 1)	 Location of the defect Reactor body repairing Technical inspection of the works performed 	2012-2013
EuroChem, NAK Azot, Novomoskovsk, Russia	Corrosion and technical inspection of critical equipment (urea plant Nº 3, second line)	- Nondestructive testing	2012
Acron, Veliky Novgorod, Russia	Lining replacement of synthesis reactor pos. 6/4 (urea plant)	- Technical documentation development Technical inspection Quality control of the works performed	2012-2013
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Customer	Project	Scope of services of NIIK	Year
UralChem, Azot, Berezniki, Russia	Repair of cylindrical section of the lining of synthesis reactor pos. R-90 (urea plant)	 Corrosion and technical inspection of lining Technical documentation development Technical inspection Quality control of the works performed 	2012
Gazprom Neftekhim Salavat Salavat, Russia	Lining replacement of the bottom parts of urea synthesis and distillation column (urea plant №50)	- Technical documentation development	2012
Agro-Cherepovets, Cherepovets, Russia	Corrosion and technical inspection of critical equipment (urea plant)	 Corrosion and technical inspection of lining using NDT Recommendation issue for equipment operating and repairing 	2012
Azot, Kemerovo, Russia	Emergency repairing of the heat exchanger cover pos. E-902 (urea plant)	- Location of the defect - Repair support services	2012
Togliattiazot, Togliatti, Russia	Repair of the lining of HP stripper of urea plant	- Location of the defect - Repair support services	2012
Gazprom Neftekhim Salavat, Salavat, Russia	Emergency repairing of synthesis reactor 6/1 (urea plant №50)	- Location of the defect - Repair support services	2011
EuroChem, NAK Azot, Novomoskovsk, Russia	Corrosion and technical inspection of critical equipment (urea plant № 3, first line)	- Inspection	2011
Odessa Port Plant, Yuzhny, Ukraine	Corrosion and technical inspection of high pressure equipment (urea plant № 2)	- Inspection	2011
Acron, Veliky Novgorod, Russia	Corrosion and technical inspection of urea synthesis reactor (urea plant № 5)	- Inspection	2011-2012
UralChem, Azot, Berezniki, Russia	Repair of the lining of urea unit synthesis reactor	Location of the defectRepair support services	2011
EuroChem, NevAzot, Nevinnomyssk, Russia	Repair of two lining belts in urea reactor (urea plant 2A)	 Technical documentation development Repairing works assistance Quality control of the works performed 	2011
PhosAgro, Cherepovets, Russia	Cleaning of heat exchanging equipment of evaporation unit (first stage)	- Removing scales from evaporating unit (first stage) tubes by thermo-pneumo-abrasive method	2011
Acron, Veliky Novgorod, Russia	Technical guidance for relining of urea synthesis reactor pos. 6/2 of urea plant	 Technical documentation development Repairing works assistance Quality control of the works performed 	2011
Odessa Port Plant, Yuzhny, Ukraine	Corrosion and technical inspection of high pressure equipment (urea plant Nº 2)	- Inspection	2011













R&D INSTITUTE OF UREA			
Customer	Project	Scope of services of NIIK	Year
DniproAZOT Dneprodzerzhinsk, Ukraine	Corrosion and technical inspection of equipment (urea plant№1 and urea plant №2)	- Nondestructive testing - Recommendation issue for equipment operating and repairing	2011-2012
Concern Stirol, Gorlovka, Ukraine	Corrosion and technical inspection of sections №1 and №2 (urea plant)	- Inspection	2011
Odessa Port Plant, Yuzhny, Ukraine	Corrosion and technical inspection of equipment (urea units №1 and №2)	- Inspection	2010
EuroChem, NevAzot, Nevinnomyssk, Russia	Corrosion and technical inspection of equipment (urea plant №2)	- Inspection	2010
	Technical guidance for partial relining of synthesis reactor 6/3	- Technical documentation development - Technical guidance of repair works	2010
Acron, Veliky Novgorod,	Corrosion inspection of urea synthesis reactor 6/2	- Inspection	2010
Russia	Industrial safety expertise	- Diagnostics of urea synthesis reactor 6/1 and 6/4	2010
	Cleaning of heat exchanging equipment of MP distillation	 Removing scales from heat exchanging tubes by pneumocurrent method 	2010
Azot, Cherkassy, Ukraine	Corrosion inspection of equipment (urea plant M-2 and M-6)	- Inspection	2010
	Relining of upper part of urea synthesis reactor (plant M-2)	 Development of technical documentation Repair works Quality control of the works performed 	2010
Phos Agro, Cherepovets, Russia	Corrosion and technical inspection of urea plant equipment	- Nondestructive testing	2010
DniproAzot, Dneprodzerzhinsk, Ukraine	Corrosion and technical inspection of equipment (urea plant №1 and urea plant № 2)	- Inspection	2010
EuroChem, NAK Azot, Novomoskovsk, Russia	Technical guidance of partial relining of synthesis reactor 6/2	 Technical documentation development Repairing works assistance Quality control of the works performed 	2010
Azot, Kemerovo, Russia	Corrosion inspection of urea synthesis reactor	- Inspection	2010
EuroChem, NevAzot, Nevinnomyssk, Russia	Corrosion and technical inspection (urea units №2 and №2a)	- Inspection	2010
	Industrial safety expertise of technical devices (urea plant №2)	- Corrosion and technical inspection	2008
EuroChem, NAK Azot, Novomoskovsk, Russia	Repair of the lining of synthesis reactor, separator and stripper (urea plant №3)	- Technical assistance	2008

Customer	Project	Scope of services of NIIK	Year
Azot, Kemerovo, Russia	Repair of urea synthesis reactor	- Development of technical documen- tation and technical guidance for urea synthesis reactors repair	2008
DniproAzot, Dneprodzerzhinsk, Ukraine	Industrial safety expertise of technical means	- Corrosion and technical inspection	2008
R&D Institute of Measu- rement Systems, Nizhny Novgorod, Russia	Process diagnostic to deter- mine the remaining service ife of equipment and pipelines of treatment plants	- Inspection	2007
Rikor Electronics, Arzamas, Russia	Industrial safety expertise of technical means	- Equipment diagnostics	2007
PhosAgro, Cherepovets, Russia	Industrial safety expertise of pressurized vessels (urea plant)	- Equipment diagnostic and expert conclusion for service life extension of equipment	2007
EuroChem, NevAzot, Nevinnomyssk, Russia	Repair of two lining belts (urea reactor)	 Development of technical documentation Supervising manufacturing of the material Technical assistance Field supervision 	2007
EuroChem, NAK Azot, Novomoskovsk,	Inspection of stripper tubes by eddy-current method	- Inspection	2007
Russia	Corrosion inspection of stripper	- Inspection	2007
Ferghana Azot, Uzbekistan	Corrosion inspection of critical vessels and pipelines (urea plant)	- Inspection	2007
DniproAzot, Dneprodzerzhinsk, Ukraine	Corrosion and technical inspection of HP reactor, stripper, condenser (plant №2)	InspectionRepair procedure developmentRepair works	2007









Customer	Project	Scope of services of NIIK	Year
	EQUIPMENT PE	ROCUREMENT	
	For productio	n complexes	
Metafrax, Gubakha, Russia	Ammonia-urea-melamine complex	- Equipment procurement for OSBL facilities	2016 - to present
Metafrax, Gubakha, Russia	Ammonia-urea-melamine complex	- Equipment procurement for prilling tower construction	
Casale SA, Switzerland			
Ammoni, Mendeleevsk, Russia	Ammonia- methanol-urea complex	- Equipment procurement for OSBL facilities	2010-2015
	For ammonia pr	oduction units	
PhosAgro, Cherepovets, Russia	Ammonia production unit AM-3 (capacity 2200 TPD)	- Equipment procurement for analytical laboratory	2016-2017
	For nitric acid pı	roduction units	
Not disclosed (Confidential Information)	Non-concentrated nitric acid production unit UKL-7-76M with capacity 130000 TPY (monohydrate)	- Equipment procurement	Under develop- ment
	For urea prod	duction units	
Rashtriya Chemicals and Fertilizers Ltd., Mumbai, India	Urea units modernization (Thal)	- Procurement & installation of three Sets of Internal Devices	Under develop- ment
Acron, Veliky Novgorod, Russia	Urea production unit №6 construction with capacity 600 TPD	- Equipment procurement	Under develop- ment
KuibyshevAzot, Togliatti, Russia	Technical modernization of urea unit № 4 (evaporation, hydrolysis and desorption sections)	- Equipment procurement	2016-2017
Rashtriya Chemicals and Fertilizers Ltd., Mumbai, India	Trombay V urea plant modernization	- Procurement & installation of a Set of Internal Devices comprising Vortex Mixer and Conversion Booster for urea synthesis reactor	2015-2016
Casale SA, Switzerland	Urea production unit and new prilling tower construc- tion (capacity 2200 TPD) at TogliattyAzot site	- Equipment procurement for prilling tower and new urea reactor support facilities	2015- to present
EuroChem, NAK Azot, Novomoskovsk, Russia	Revamp of urea unit 2 (gas vent elimination)	- Equipment procurement	2012-2015
PhosAgro- Cherepovets, Cherepovets, Russia	Urea production plant (section № 2) technical modernization with capacity increase to 1600 TPD	- Supervising equipment manufacturing	2014-2016
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Customer	Project	Scope of services of NIIK	Year
EuroChem, NAK Azot, Novomoskovsk, Russia	Technical modernization of the urea production plant №2	- Equipment procurement	2013-2016
	32,5% urea solution production unit (capacity 100000 TPY) including urea solution treatment unit on the basis of urea plant № 2 evaporation unit	- Equipment procurement	2013-2015
Nagarjuna Fertilizers and Chemicals Limited, India	Urea synthesis unit № 2 modernization	- Procurement & installation of vortex mixer into urea synthesis reactor	2013
Gujarat Narmada Valley Fertilizers & Chemicals Ltd, India	Urea unit modernization	- Procurement & installation of vortex mixer into urea synthesis reactor	2017
Acron, Veliky Novgorod, Russia	Urea production units (1-4) revamping aimed to capacity increase up to 2000 TPD and feedstock/energy saving	- Equipment procurement	2016
Azot, Cherkassy, Ukraine	Design and procurement of HP stripper pos. E-201 with capacity increase up to 1500 tpd (urea plants M-2)	- HP stripper design and procurement	2011-2012
Azot, Kemerovo, Russia	Urea production unit revamping with high speed drum granulator installation	- Equipment procurement	2011-2013
Acron, Veliky Novgorod, Russia	Evaporation system for urea production unit and prilling tower modernization with capacity increase	- Equipment procurement	2011-2013
Maxam-Chirchik, Chirchik, Uzbekistan	Modernization and technical upgrading of urea unit	- Equipment procurement - Commissioning	2010-2012
UralChem, Azot, Berezniki, Russia	Urea synthesis reactor modernization	- Set of Internal Devices procurement - Field supervision	2010
Salavatnefteorgsintez Salavat, Russia	Prilling towers' modernization for urea plant Nº24	- Equipment procurement - Commissioning	2010-2012
PhosAgro Cherepovets, Russia	Prilling tower for urea production (capacity of 1500 TPD)	- Equipment procurement	2008-2012
Acron, Veliky Novgorod, Russia	Urea unit №5 on the basis of relocated unit	- Equipment procurement	2007-2011
EuroChem, NAK Azot, Novomoskovsk, Russia	Revamp of urea plant №3 with capacity increase to 2000 TPD	- Material procurement	2007-2010
Severodonetsk Azot Association, Severodonetsk, Ukraine	Urea unit revamp with capacity increase from 1200 up to 1500 TPD	- Equipment procurement	2007-2010
EuroChem, NevAzot, Nevinnomyssk, Russia	Urea evaporation unit for melamine plant	- Equipment procurement	2008-2010







MAD INSTITUTE OF GREAT			
Customer	Project	Scope of services of NIIK	Year
KuibyshevAzot, Togliatti, Russia	Revamp of urea unit with capacity increase	- Equipment procurement - Field supervision	2007-2008
Severodonetsk Azot Association, Severodonetsk, Ukraine	Urea unit revamp with capacity increase from 1000 up to 1200 TPD	- Equipment procurement	2006-2007
PhosAgro, Cherepovets, Russia	Revamping of distillation unit with capacity increase (urea production plant)	- Equipment procurement	2007
Salavatnefteorgsintez Salavat, Russia	Revamping of urea plant №50	- Equipment procurement	2006-2008
Azot, Kemerovo, Russia	Revamp of urea synthesis unit	- Procurement of internals into reactor pos. R-101	2006
Grodno Azot, Grodno, Belarus	Revamp of urea production unit, installation of recuperator	- Equipment procurement - Field supervision	2006
Acron, Veliky Novgorod, Russia	Installation of the 5th urea synthesis reactor	- Equipment procurement	2006
NevAzot, Nevinnomyssk, Russia	Revamping of urea production plant №2	- Equipment procurement - Field supervision	2006
Azot, Kemerovo, Russia	Revamp of urea synthesis unit	- Procurement of internals into reactor pos. R-101- Field supervision	2006
	For ammonia nitra	te production unit	
KazAzot, Aktau, Kazakhstan	Ammonia nitrate production unit modernization: HSDG for ammonia nitrate manufacturing	- Equipment procurement	2011-2012
For warehouses			
Pervouralsky novotrubny works, Perovuralsk, Russia	Revamp of liquid ammonia storage unit № 33	- Equipment procurement	2006-2007
Zawolzhsky Motorny Zawod, Zavolshye, Russia	Revamp of sulphuric acid storage unit	- Turnkey project	2006-2007
	Petrol storage unit	- Turnkey project	2006
Nizhegorodsky machine-building plant, Russia	Revamping of chlorine storage unit and chlorinator	- Equipment procurement	2006-2007
For other facilities			
QAFCO (Qatar Fertilizer Company), Qatar	Multipurpose High Speed Drum Granulation (HSDG) Pilot Plant for production of granulated urea with addi- tives, capacity 100 kg per hour	- Equipment procurement - Field supervision - Commissioning	2014-2015

Customer	Project	Scope of services of N II K	Year
PVFCCo, Phu My I, Ba Ria Vung Tau, Vietnam	HSDG unit for production of compound fertilizers (capacity 100 kg/h)	 Equipment procurement Field supervision Commissioning	2014-2015
Zawolzhsky Motorny Zawod, Zavolshye, Russia	Project development and construction of testing station for diesel engines	- Turnkey project	2009
	For equipme	nt repairing	
Meleuz mineral fertilizers, Meleuz, Russia	Replacement of old tubes of evaporation unit (pos. T-10, ammonium nitrate production unit AS-72M)	- Metal structures procurement for repairing works	2017
Grodno Azot, Grodno, Belarus	Repair of the lining of the synthesis reactor manhole (pos. R-201, urea plant №3)	- Metal structures procurement for repairing works	2017
Egyptian Fertilizers Company (EFC), El Ain Sukhna, Egypt	Relining of urea reactor 322-R-00 (Urea Plant EFC-1 Suez Fertilizers Co.)	- Metal structures procurement for repairing works	2016
Meleuz mineral fertilizers, Meleuz, Russia	Replacement of old tubes of evaporation unit (pos.T-10, ammonium nitrate produc- tion unit)	- Equipment procurement	2015
Grodno Azot, Grodno, Belarus	Repair of two lining belts (urea synthesis reactor pos. R-201, urea plant №3)	- Metal structures procurement for repairing works	2014
	Corrosion inspection of urea synthesis reactor (urea plant №4)	- Metal structures procurement for repairing works	2013
Azot, Kemerovo, Russia	Synthesis reactor repair support services	- Metal structures procurement for repairing works	2013
Concern Stirol, Gorlovka, Ukraine	Complex repair of synthesis reactor pos. R-901 (urea plant, location1)	- Metal structures procurement for repairing works	2012-2013
Acron, Veliky Novgorod, Russia	Lining replacement of synthesis reactor pos. 6/4 (urea plant)	- Metal structures procurement for repairing works	2012-2013
UralChem, Azot, Berezniki, Russia	Repair of cylindrical section of the lining of synthesis reactor pos. R-901 (urea plant)	- Metal structures procurement for repairing works	2012
EuroChem, NevAzot, Nevinnomyssk, Russia	Repair of two lining belts in urea reactor (urea plant 2A)	- Metal structures procurement for repairing works	2011
Acron, Veliky Novgorod, Russia	Set of internal devices installation into urea plant reactor №5	- Metal structures procurement for repairing works	2011
	Technical guidance for relining of urea synthesis reactor pos. 6/2 of urea plant	- Metal structures procurement for repairing works	2011
Azot, Cherkassy, Ukraine	Relining of upper part of urea synthesis reactor (plant M-2)	- Metal structures procurement for repairing works	2010











Customer	Project	Scope of services of NIIK	Year
EuroChem, NAK Azot, Novomoskovsk, Russia	Technical guidance of partial relining of synthesis reactor 6/2	- Metal structures procurement for repairing works	2010
EuroChem, NevAzot, Nevinnomyssk, Russia	Repair of two lining belts (urea reactor)	- Supervising manufacturing of material	2007
Kuibyshev Azot, Togliatti, Russia	Revamping of urea storage unit	- Field supervision - Commissioning works	2007
Fertalge Industries SPA, Algeria	Prilling tower for urea production	- Field supervision	2002-2005













































