





WHY NIIK IS ATTRACTIVE FOR FOREIGN LICENSORS ?

NIIK will help:

- to reduce the project implementation period
- enhance the performance of investments.
- to push up profit
- to attract new technologies to Russia





NIIK'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» (Czezh Repiblic)

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

JSC «Ammony» (Mendeleevsk, 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)





ADVANTAGES OF COOPERATION BETWEEN FOREIGN LICENSOR AND NIIK FOR THE CUSTOMER



Foreign licensor submits:

License for technology		
Basic engineering/basic design	At the battery limit of	
Detailed engineering	– equipment	NO authority
Equipment procurement	procurement	package

Customer requests for:

Engineering and design, integration with the infrastructure
Documentation for approval
Building permit
Detail design for construction
Compliance of import deliveries with Russian safety codes



WHAT PREVENTS FOREIGN LICENSOR FROM DEVELOPMENT OF AUTHORITY PACKAGE ON THEIR OWN?



Bad knowledge of Russian norms and regulations

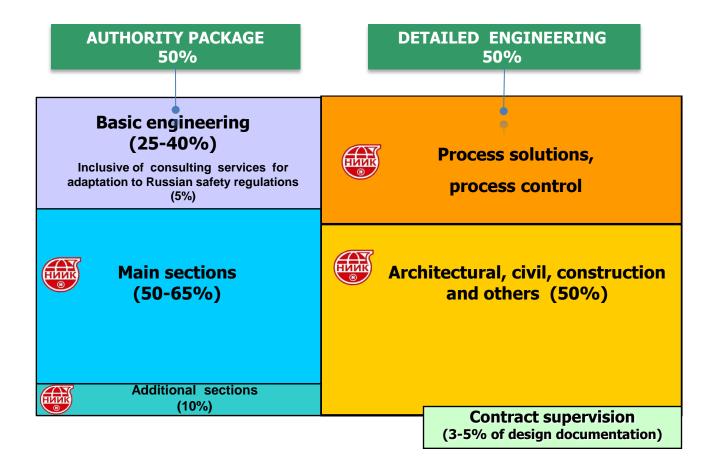


Peculiarities of authority package sections





DESIGN DOCUMENTATION DEVELOPED BY NIIK BASED ON FEED-PACKAGE PROVIDED BY FOREIGN LICENSOR







AUTHORITY PACKAGE DEVELOPMENT						
	Basic engineering	Authority package				
	Plot plan (building arrangements, sites, pavements)	Plot plan; vertical leveling; earthworks table; site map etc				
	Architectural and civil solutions	Architectural and civil solutions; design and planning solutions; development of engineering structural drawings				
	Utilities	Utilities; Design of energy supply systems				
	Process solutions	Process solutions				
Design documentation Extra sections		Construction arrangement draft	 Environmental protection Reducing negative environmental impact 			
Basic engineering		Fire fighting system	Civil defense and industrial safety			





LICENSOR'S INVOLVEMENT IN AUTHORITY PACKAGE DEVELOPMENT



To submit additional information

To perform and submit calculations and drawings required for design documentation development

To adapt design documentation to Russian norms and regulations, inclusive of revision of the documentation in accordance with State Expertise Committee's comments and wishes



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

LADRELLYT CARGAR AL

(2)

STATE.

QUESTIONS WHICH MAY ARISE DURING DETAILED DESIGN DOCUMENTATION DEVELOPMENT





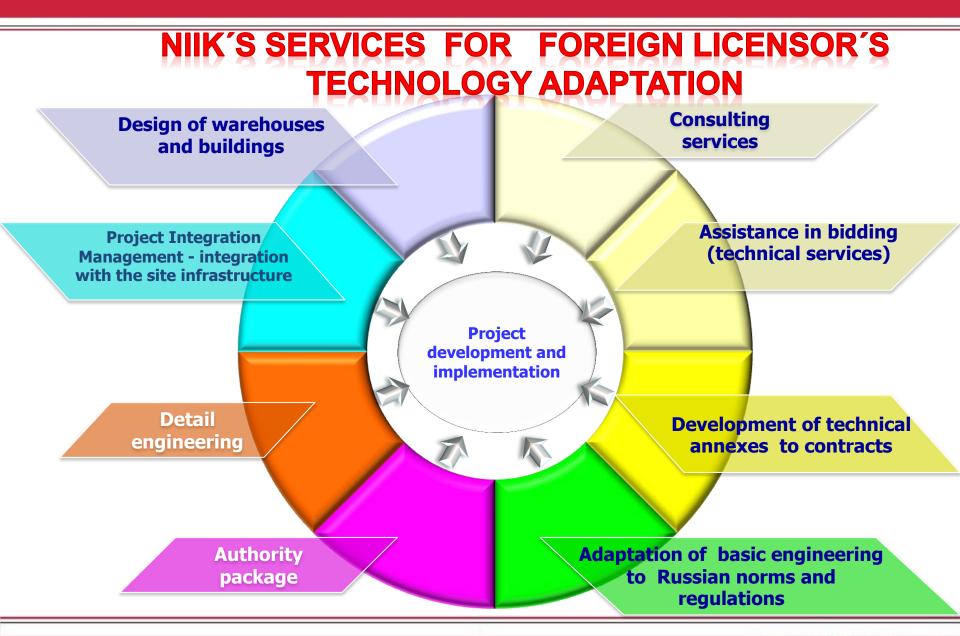


- Differences in construction norms
- Construction softwear should be certified by Rostehnadzor
- Separate sections of detailed design documentation should be approved by State Expertise Committee

Need in Russian engineering company for detailed engineering development









THE BASICS OF SUCCESS WHEN IMPLEMENTING PROJECT IN RUSSIA

- 1. Involvement of a Russian engineering company (for authority package development, for process selection)
- 2. Foreign licensor's technology adaptation to Russian legislation (at all stages of the project cycle)
- 3. Common project schedule for all subcontractors
- 4. Direct communication between Licensor and Russian engineering company
- 5. Efficient information exchange between Licensor and Russian engineering company





