



TRANSNEFT

PUBLIC JOINT-STOCK COMPANY TRANSNEFT
(TRANSNEFT)

**Innovation Development Programme of Transneft
for 2017-2021**

PASSPORT

Moscow 2016

1. General information

The Passport of the Transneft Innovation Development Programme (hereinafter: IDP) is developed and published for timely informing of third-party contractors who can be potential partners in IDP implementation about the areas of innovative development of Transneft (Company) and organizations of the Transneft system (OTS), ongoing changes in the innovation policy, the needs of Transneft and OTS in outsourcing of essential competences and resources.

The IDP Passport is meant above all for:

- third-party Russian contractors – potential suppliers of innovations for Transneft and OTS for their research, developments and production facilities to get adapted to the future needs of Transneft and OTS;

- Third-party Russian educational institutions for their personnel training plans to get adapted to the future needs of Transneft and OTS;

- Foreign companies for them to understand the areas of possible cooperation with Transneft and OTS in the sphere of innovations.

The IDP Passport is liable to regular updating not rarer than once a year.

2. Goals and key performance indicators of Transneft innovation development for 2017-2021

The system of Transneft IDP goals is closely related and tied to the goals of corporate strategy documents, including the Development Strategy and Long-Term Development Programme of Transneft.

The Transneft IDP goals for 2017-2021 include:

- Raising the role of innovations in achieving the Company's strategic goals;

- Raising the efficiency of key business processes and growing productivity of labour;

- Reducing the cost and unit (operating) costs of transportation services provided;

- Raising the quality of crude oil and petroleum product transportation services (including their assured reliability and safety);

- Raising the energy efficiency of the Company;

- Higher sustainability of the Company's operations.

- The key performance indicators of Transneft IDP for 2017-2021 are:

- The volume of financing of innovation projects, including R&D, from equity capital as per cent of Transneft proceeds from oil transportation services (by RAS), %

- The number of intellectual copyright protection documents obtained during the period under review and in two previous years, papers

- Integrated in-house commercialization effect of innovation projects, including R&D, for the period under review and two previous years as per cent of Transneft proceeds from oil transportation services (by RAS), %

- Increasing transparency of diagnostic data, %

- Total specific headcount for the linear part of OPT and site facilities, people per facility.

The goals and IDP KPI take into account the specifics of the Company as an infrastructural undertaking oriented towards “in-house commercialization” of the results of innovation and R&D projects, i.e. their application at trunk pipeline facilities of OTS for ensuring their safety and reliability. Innovation projects and applied R&D are also purported to ensure the Company's total independence from foreign product supply markets (import substitution).

3. Prioritized technologies and areas of Transneft technological development in the mid-term and long-term outlook; the needs to outsource competences

With regard to innovation development goals and based on the results of the technological audit and analysis conducted in 2015-2016, the list of priority areas of technological development was drawn:

1. In-line inspection (smart pigging);
2. Monitoring and geopositioning;
3. Raising energy efficiency;
4. Environmental safety;
5. Reduction of hydraulic losses;
6. "One-button" control;
7. Improving construction and operation of crude oil and petroleum products storage tanks;
8. Nanotechnologies.

Formed for each of the said development areas are the road maps of development and using innovation and prospective technologies, where an optimal implementation mechanism and the extent of planned outsourcing of competences are set out:

- 1) Procurement;
- 2) Development using the "open innovations" principle;
- 3) Development through the sole effort of organizations in the Transneft system.

The main criteria for determining an optimal mechanism of technology implementation and the extent of outsourcing the missing competences:

- 1) Technology confidentiality: the conduct of R&D within the organizations of the Transneft system is chosen for such technologies;
- 2) Competences limited to the organizations of the Transneft system: R&D is deemed expedient within the OTS.

The said technologies and areas of technological development will be elaborated by Transneft R&D including with the involvement of outsourced experts and development institutes, as part of the formed mechanisms of innovation search and implementation of innovation solutions. Following the results of elaboration, decisions will be made about the advisability of conducting further R&D and implementing the results.

4. Key innovation projects of Transneft for 2017-2021

As part of the IDP, implementation of the following innovation projects is planned for 2017-2021:

1. *Developing a range of high-precision in-line inspection (diagnostic) devices to assure the reliability of trunk pipeline facilities.*
2. *Developing and implementing the system of trunk pipeline technical condition monitoring.*
3. *Developing the leakage detection system and activity control of the temperature and vibro-acoustic principle of action (LDS & AC).*
4. *Developing energy-efficient high-performance pump units.*
5. *Developing and implementing homemade systems of measuring the quantitative and qualitative characteristics of oil with improved characteristics.*
6. *Developing and creating the petroleum product vapour regeneration plant with its further adaptation at OTS facilities.*
7. *Developing and implementing the integrated control system of design production (ICSDP)*

Besides the said projects, the plan also calls for doing applied and prospective research in the areas indicated below:

- reliability and operation of the linear part, mechanical-technological and power engineering equipment of oil trunk pipelines and tank farms;
- KPI, automatics and telemetry control;

- Environmental, fire and industrial safety of crude oil and petroleum products pipelines;
 - Transportation, measurement and ensuring the quality of crude oil and petroleum products;
 - metrology support;
 - prospective development of the oil trunk pipeline and petroleum products pipeline system;
 - design and construction of the linear part of oil trunk pipelines and tank farms;
 - anticorrosion coatings;
 - safety systems for the facilities of oil trunk pipelines and petroleum products pipelines;
- The description of the need for outsourcing of competences for implementing key innovation projects can be found in Table 1.

Table 1: Describing the need for outsourcing competences for implementation of key innovation projects

	Project name	The need for outsourcing certain competences
	1. Developing a range of high-precision in-line inspection devices to ensure the reliability of OTP facilities	Third-party contractors possessing unique production technologies and flaw measuring methods are outsourced to implement their methods and technologies in smart pigging. Third parties are outsourced for the execution of project works via R&D or tenders for the supply of various products.
	2. Development and implementation of the OTP technical condition monitoring system	In the course of Project delivery the need is arising to outsource experts for execution of the following works: - Development of import substitution hardware and software for creating the local computer-aided geodesic network; - Performing high-precision laser scanning; - Algorithm design for calculating the frost penetration in frozen ground (soil) in the wild; - Holding geological investigation and seismic micro-zoning of mainline valve station sites.
	3. Developing the spillage detection system and activity control of the temperature and vibro-acoustic principle of action (SDS & AC)	The outsourcing of partners or third-party contractor is not planned. The development is carried out by the Transneft subsidiary (OMEGA).
	4. Developing energy-efficient enhanced-performance pumping units	In the process of Project implementation the need is arising to outsource third-party contractor for execution of the following works: expert evaluation of technological solutions, foundry production of body parts.
	5. Developing and implementing homemade systems of measuring quantitative and qualitative parameters of crude with improved characteristics	In the process of Project implementation the need is arising to outsource third-party contractor for execution of the following works: developing technical projects, metrology support.
	6. Development and creation of a petroleum vapour regeneration plant with its subsequent adaptation at OTS facilities	In the process of Project implementation the need is arising to outsource third-party contractor for execution of the following works: the development of technological solutions

7. Development and implementation of the integrated design production control system (IDPCS)	In the process of Project implementation the need is arising to outsource third-party contractor for execution of the following works: development and adaptation of IDPCS software.
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5. Developing the mechanisms of interaction between Transneft and its potential innovation-related partners

Planned as part of the IDP implementation is further development of engagement with third-party contractors as well as using the “open innovations” principles on a number of areas.

5.1. Procurement of innovation solutions and engagement with suppliers of innovative technologies and products, including small and medium-sized businesses

In recent years the Company put in place all key mechanisms raising the transparency of procurement procedures, information openness, building sturdy partnership relations. In particular, they include:

1) “One-window” system for implementing innovation solutions

The system was launched in 2014.

The system operation rules are described in the Provision about the procedure and rules of implementing innovation solutions in Transneft and OTS activities.

To simplify the submittal of proposals, a special online template or form was developed and uploaded. It can be freely accessed at:

http://www.niitnn.transneft.ru/sustainable_development/innovation_energy_efficiency/innovation/innivation/innivation_form/

Transneft R&D, LLC is the organization responsible for engagement with potential suppliers of innovation solutions.

2) Transneft and OTS programme of partnership with small and medium-sized businesses

The programme is posted in open access on the Company’s website.

The partnership programme is aimed at forming a network of skilled and responsible partners from among SME subjects.

The partnership programme promotes:

- Information support of SME subjects by informing them about the array of current and prospective technological needs, planned procurement volumes over short-term and long-term periods as well as the terms of cooperation, maintaining the register of partners;

- Organizational support, including the conduct of SME conferences and information seminars, training the experts of different categories in the provisions and requirements of corporate standards;

- Forming a competitive procurement system based on the principles of transparency, equality and the lack of discrimination;

- Assisting the Partners in signing contracts for the supply of goods, execution of works, providing services by way of organizing initial and routine meetings, negotiations on key contractual provisions.

3) Refinement of procurement procedures

To raise the efficiency of procurement policies, build up the procurement of innovation products and enlarge the engagement with innovation-minded SME, Transneft has amended its procurement procedures.

As regard to Transneft provisions about procurement of goods, works and services, the Client annually dedicates lots in the procurement structure for buying innovation products developed by SME subjects and having the nod of experts as complying with safety and reliability standards in accordance with the provisions about the procedure and rules of implementing innovation solutions set out in the regulatory acts of the Russian Federation. These products can replace their traditional analogues.

4) The programme of localizing production of imported items in the territory of the Russian Federation for crude oil and petroleum products transportation over trunk pipelines

The share of imported items in the total volume of products procured by the Company is estimated at 10%, on average; however the share of components and parts in some product categories is way higher and any disruption of their supplies may adversely affect the volume and quality of works executed by the Company.

To lower the risks involved in the dependence on the import of products from abroad and to ensure the technological safety of crude oil and petroleum products transportation over trunk pipelines, in 2014 Transneft developed the Programme of localizing production of imported products in the territory of the Russian Federation for crude oil and petroleum products transportation over trunk pipelines.

The Programme includes 27 product types which are in highest demand at OTS facilities. A special emphasis is placed on three groups of equipment and materials:

Group 1: mechanical engineering products which by 2020 will be fully manufactured in the territory of Russia without using imported parts (enhanced performance and capacity pumps and electric drives, equipment and instruments measuring the quantitative and qualitative parameters of crude oil and petroleum products with improved metrological characteristics, shutoff and control valves);

Group 2 includes materials with chemical components that are partly produced by foreign enterprises and will be used in industrial production in the territory of Russia;

Group 3 includes communication equipment, spare parts for construction and road-building machinery, which will be manufactured abroad, but whose consumption is insignificant in quantitative terms and does not affect the technological process of crude oil and petroleum products transportation.

3) Developing industry-related certification and testing schemes

A powerful material-technical, economic and scientific base was created at Transneft for the selection, certification and assessment of conformity of enterprises and products to the claims laid. The given system is based on forming and maintaining the Register of Core Products (RCP), production inspection programmes and methodologies of production qualification and periodic tests.

The procedure of inclusion in the RCP is based on the declarative principle. However for manufacturers who decide to comply with the rules of the system, the latter become mandatory.

Accreditation of the voluntary certification system based on the RCP and its inclusion in the Unified Register of Certification Authorities and Testing Laboratories (Centers) ensures the execution of obligatory requirements of the Technical Regulations of the Customs Union for Compliance Assessment, including the technical regulation “On the safety of trunk pipelines for transportation of liquid and gaseous hydrocarbons.”

5.2. Developing partnership with research and educational institution in the sphere of R&D

In planning the R&D works a large number of co-contractors are involved, including such leading research and academic institutions as Rostec Corp., Gidromash, Turbonasos, FGUP

VNIIR, Mechanical Engineering Research Institute, IMET RAS, Institute of Mechanics of Ufa Branch RAS, VNIIMS, IPNG YSN RAS, Kutateladze Institute of Thermal Physics, and others.

Also participating in the execution of the R&D Programme of Transneft are leading Russian universities: Russian I.M. Gubkin State Oil and Gas University, Ufa State Petroleum Technology University, Far East Federal University, Moscow N.E. Bauman State Technological University, MGIMO under MFA of Russia, Moscow M.V. Lomonosov State University, SRU Higher School of Economics, Ufa State Aviation Technical University, Volga State Water Transport Academy, Siberian State University of Geosystems and Technologies, Samara State Technological University, Moscow Research University, Moscow State University of Civil Engineering, and others.

In 2021 perspective the Company plans to increase total financing of the works performed by research and academic institutions and to ensure the development of the material and technical base of the universities.

During the period under review the involvement of universities and research institutes in R&D is planned along the following lines (subjects):

- studying the foreign experience of developing the experimental and methodological base of academic research on the problems of crude oil and petroleum products pipeline transport;
- raising the energy efficiency of crude oil and petroleum products pipeline transport;
- research and development of technological solutions for the design of trunk pipelines and facilities of oil pump stations under abnormal geological-climatic conditions;
- the development of technological solutions aimed at curtailing the emission and discharge of pollutants as well as at eliminating the accrued damage and recent contamination;
- studying the methods of raising the throughput capacity of exploited oil and petroleum products trunk pipelines;
- studies in the area of equipment and materials reliability and improving their quality parameters;

Furthermore universities, research institutes and SME will be involved in the delivery of key integrated innovation projects.

Transneft carries out regular monitoring of proposals from universities, forwarded via the Development of Scientific and Production Cooperation system (<http://aispir.ru>) to Transneft.

5.3. Developing partnership in the sphere of education and recruitment needs of Transneft for implementing the Innovation Development Programme

One of the important aspects of Transneft innovation activities is development the system of ongoing education, including the processes of preparation for education, training and raising the skills in corporate and state educational institutions, from secondary school to university, for satisfying the need for highly skilled personnel, with the Company seeking an optimal balance between in-house system of corporate training and the outsourcing of educational competences of third-party contractors.

During the period under review Transneft and OTS plan further effective cooperation with universities in the sphere of education, including in the following areas:

- Involving the Company's leading specialists in lecturing on pipeline transport equipment and technologies at specialized educational institutions;
- Raising the level of skills and retraining of OTS employees at specialized universities;
- Organizing production hands-on internship of student groups in OTS, including hands-on and laboratory studies at enterprises;
- Involving students in the work at working places during the periods of their production and pre-graduation internship, provided their prior mastering of respective trades, as part of the university curriculum;
- Writing term papers and performing graduation projects (works) solely on the subjects suggested by industry specialists and approved by the university's specialized department (chair);

- Regular internships of university teachers in OTS;
 - Selecting young talent and graduates of the Master's course for post-graduate studies, etc.
- To raise the quality of education in specialized educational institutions, the Company will:
- Improve the system of forecasting the need of the oil and petroleum products transportation industry for executives and engineering personnel;
 - Join hands with educational institutions to develop curriculums and programmes of target education for Bachelor's and Master's courses using innovation teaching methods both for mastering theoretic materials and for organizing regular hands-on training at the Company's facilities;
 - Develop the methods and norms of enrollee selection for employer-sponsored training in specialized universities at Bachelor's and Master's courses in accordance with the Company's future needs;
 - Join hands with educational institutions to develop educational programmes in the area of trunk pipeline transport of crude oil and petroleum products;
 - Back the system of specialized departments (chairs) and production internships of teachers at the Company.

The Company will continue its support of the material and technological bases of educational institutions and specialized university departments on a year-on-year basis in their development of curriculums, programmes of training, retraining and raising the skills of Transneft and OTS employees; undergraduate students will be involved in hands-on internship and pre-graduation work at the divisions of the Company and OTS;

Projects of working with youth will be carried on (including the work with schoolchildren and students, the payment of corporate scholarships, youth and professional contests).

5.4. Developing partnership with technological platforms and innovation territorial clusters

During the period under review Transneft plans participation in the activities of technological platforms (TP) corresponding with the Company's profile as well as the expansion of this collaboration in all of its forms.

The Company will further develop the mechanism of information exchange with specialized TPs regarding the current and future need for innovation technologies and products as well as to elaborate on the possibilities of involving specialized TPs in joint projects and works.

Possible areas of technological cooperation between Transneft and TPs are set out in Table 2.

Table 2: Possible Areas of Technological Cooperation between Transneft and TPs

#	TP name	Possible areas of technological cooperation
	New polymeric and composite materials and technologies	Technologies of using intelligent polymeric composite materials; Structural materials and functional coatings to be used in pipeline transport;
	Materials and technologies in metallurgy	New generation materials with enhanced service characteristics; Intelligent adaptive materials and coatings; Light, high-endurance corrosion-resistant weld materials, including with high fracture toughness; Complex anti-corrosion protection; hardening, wear-resistant, protective and thermal barrier coatings; Nondestructive materials testing; exploring the fine structure, mechanisms of materials deformation and rupture, climatic testing and exploring the mechanisms of ageing, corrosion and biodeterioration of materials in different geophysical media.
	Technologies of	Resource saving (alternative) technologies in petroleum products

	hydrocarbon production and use	supply; Reliability and safety of oil pipelines and petroleum storage tanks.
	Technologies of mechatronics, embedded control and FRID systems, robotic industry	Intelligent embedded system of control over fire, environmental, radiation and chemical safety; emergency alert systems; Communication systems for oil trunk pipelines; Embedded systems of technical control over oil pipeline equipment and infrastructure; Computer vision systems; Technologies of developing multiple-link manipulation systems; Technologies of creating unified mobile robotics modules.
	National software platform	Distributed (grid) high-performance computing; Software and system engineering
	Integrated industry and energy safety/security	Technologies and systems of intelligent diagnostic engineering and nondestructive control (testing); Technologies of runtime performance troubleshooting of equipment, thermal and power supply systems without their shutdown; Technologies of diagnosing the underlying structure of materials; Electro-physical security technologies for energy and oil transportation infrastructure facilities; Technologies of monitoring the condition and safety (security) levels of sophisticated technological systems
	Aviation mobility and aviation technologies	Using drones for oil pipeline monitoring and dynamic mapping.

In recent years Transneft has accrued significant experience of engagement with the key stakeholders of some pilot innovation territorial clusters (ITC).

The main engagement format is bilateral agreements with the participants of clusters. The subject of such agreements can be:

- joint developments,
- training and raising the level of skills,
- special equipment procurement and maintenance.

Close interaction has been established with the Petrochemical Territorial Cluster (Republic of Bashkortostan), one of its participants being IPTER, LLC (Transneft R&D, LLC holds 100% of shares in its authorized capital).

Also planned is further interaction with the Kama Innovation Territorial-Production Cluster (Republic of Tatarstan), as part of the project of starting a joint venture to develop and manufacture new Russian chemicals for ensuring crude oil and petroleum products transportation in the territory of the special economic zone Alabuga (Republic of Tatarstan).

In addition to bilateral relations with some participants of pilot ITC, in the years to come the Company plans to pass over to consistent engagement and to sign agreements with specialized organizations in these clusters. The subjects of such agreements will be:

- Forming a system of regular communication between Transneft, OTS and participants of the pilot ITC, including for technological development of participants to the agreement;
- Holding joint educational events at educational and research institutions of the cluster participants, to raise the skills of OTS employees;
- Informing and consulting the cluster participants about ongoing and planned research and innovation projects of Transneft and OTS;
- Informing and consulting the cluster participants, including SME, regarding the procurement plans of Transneft and OTS as well as the implementation of import substitution strategies;

-Raising the efficiency of using innovation infrastructure facilities created in the cluster territory, to promote the interests of Transneft and OTS;

-Involving Transneft and OTS in the implementation of infrastructure projects, as part of the cluster development programme, including the projects of forming industrial, innovation and social infrastructure in the territories of clusters.

To be addressed first and foremost is the issue of signing agreements with specialized organizations of the Petrochemical Territorial Cluster in the Republic of Bashkortostan and Kama Innovation Territorial Production Cluster in the Republic of Tatarstan. In the future it is planned to elaborate on the need to increase the number of such clusters.

6. The list of organizations in the Transneft system (OTS), taking part in implementing the Innovation Development Programme

	Name of subsidiaries and affiliates	Contacts	Official website
	Transneft Urals, JSC	450077, Republic of Bashkortostan, Ufa, 10 Krupskoy St, tel. +7 (347) 279 21 07 / 272 96 44	http://www.usmn.transneft.ru
	Transneft Western Siberia, JSC	644033, Omsk, 111 bldg. 1 Krasny Put St, tel. +7 (3812) 65 32 02 / 65 98 46	http://www.transsibneft.transneft.ru
	Transneft Kama Region, JSC	420061, Republic of Tatarstan, Kazan, 26a N. Yershova St, tel. +7 (843) 279 04 20 / 279 01 12	http://www.szmn.transneft.ru
	Transneft Siberia, JSC	625048, Tyumen, 139 Respubliki St, tel. +7 (3452) 32 27 10 / 20 25 97	http://www.sibneftprovod.transneft.ru
	Transneft Druzhba, JSC	241020, Bryansk, 113 Uralskaya St, tel. +7 (4832) 74 76 52 / 67 62 30	http://www.druzhba.transneft.ru
	Transneft Central Siberia, JSC	634050 Tomsk, 24 Naberezhnaya reki Ushaiki St, tel. +7 (3822) 27 54 33 / 27 54 26	http://www.csib-tomsl.transneft.ru
	Chernomortransneft, JSC	353911, Krasnodar krai, Novorossiysk, Sheskhari-11, tel. +7 (8617) 64 57 40 / 64 55 81	http://www.chernomor.transneft.ru
	Transneft Upper Volga, JSC	603600, Nizhny Novgorod, 4/1 Granitny per., tel. +7 (831) 438 22 70 / 438 22 05	http://www.vvmn-nn.transneft.ru
	Transneft Baltic, LLC	191014, St. Petersburg, 14 Baskov per., tel. +7 (812) 275 17 14 / 275 11 10	http://www.baltneft.transneft.ru
0	Transneft Volga Region, JSC	443020 Samara, 100 Leninskaya St, tel. +7 (846) 333 44 98 / 999 84 46	http://www.pmn.transneft.ru
1	Transneft North, JSC	169313, Komi Republic, Ukhta, 2/1 A.I. Zeryunova prospekt, tel. +7 (8216) 77	http://www.severnemn.transneft.ru

		13 00 / 76 01 71	
2	Transneft East, LLC	665734, Bratsk, Energetik residential area, 14 Olympiyskaya St, tel. +7 (3953) 300 737 / 300 703	http://www.vostoknefteprovod.transneft.ru
3	Transneft Far East, LLC	680030, Khabarovsk, 51 Lenina St, office 324, tel. +7 (4212) 22 34 36 / 22 30 40	http://www.dalmn.transneft.ru
4	Transneft Port Primorsk, LLC	188910, Leningrad Region, Vyborg district, Primorsk, tel. +7 (81378) 78 778 / 78 720	http://www.smnpp.transneft.ru
5	Transneft Port Kozmino, LLC	692941, Primorsky krai, Nakhodka, Vrangal community, 76 Nizhne-Naberezhnaya St, tel. +7 (4236) 77 10 00 / 77 10 15	http://www.smpnk.transneft.ru
6	Transneft Port Ust-Luga, LLC	118480, Leningrad Region, Kingisepp, 25/2 Karla Marksa pr., tel. +7 (812) 332 92 66	http://www.smpnul.transneft.ru
7	Transnefteproduct, JSC	115184, Moscow, 2/36 bldg. 1 Vizhnyakovsky per., tel. +7 (495) 915 94 01 / 915 94 37	http://transnefteproduct.transneft.ru
8	Transnefteproduct Samara, JSC	443010, Samara, 75 Lva Tolstogo, tel/fax: 8 (846) 332 83 17 / 333 27 16	http://tnp-samara.transneft.ru
9	Middle Volga Transnefteproduct, JSC	115184, Moscow, 2/36 bldg. 1 Vizhnyakovsky per., tel. +7 (843) 236 66 34 / (843) 236 51 90	http://sv-transnefteproduct.transneft.ru
0	Transneft UW Service, JSC	603152, Nizhny Novgorod, 19-A Larina St, tel. +7 (831) 437 77 63 / 437 77 79	http://vp-nnov.transneft.ru
1	Svyaztransneft, JSC	117420, Moscow, 12 Nametkina St, tel. +7 (495) 950 80 70 / 950 80 75	http://oilnet.transneft.ru
2	Giprotruboprovodm JSC	119334, Moscow, 24 bldg 1 Vavilova St, tel. +7 (495) 950 86 50 / 950 87 56	http://giprotruboprovod.transneft.ru
3	Transneft Diascan, JSC	140501, Moscow Region, Lukhovitsy, 7 Kuibysheva St, tel. +7 (496) 635 09 14 / 635 09 13	http://www.diascan.transneft.ru
4	Transneft R&D, LLC	117186, Moscow, 47 Sevastopolsky pr., tel. +7 (495) 950 82 95 / 950 82 97	http://www.nitnn.transneft.ru
5	OMEGA, CJSC	129515, Moscow, 6 bldg. 1 Akademika Koroleva St, tel.	http://www.omega.transneft.ru

		+7 (499) 137 51 65 / 135 65 39	
6	RED, JSC	454010, Chelyabinsk, 8 Eniseyskaya St	
7	Transneft Oil Pumps, JSC	454010, Chelyabinsk, 8 Eniseyskaya St	http://pumps.transneft.ru
8	IPTER, LLC	450055, Republic of Bashkortostan, Ufa, 144/3 Oktyabrya pr., tel. +7 (347) 241 73 45	http://www.ipter.ru

7. Contacts

1. Implementation of the Innovation Development Programme – Head of Innovations, Development and R&D Directorate A.E. Soshchenko, tel. (495) 950 80 02

2. Carrying out environment conservation activities, participating in the technological platform Environmental Development Technologies – Head of Environmental Safety and Rational Nature Management Section E.Y. Radchenko, tel. (495) 950 89 35.

3. Development of power engineering equipment – Chief Power Engineer A.F. Kopysov, tel. (495) 950 81 78 (ext. 1170).

4. Development of mechanical-technological equipment, in-house production facilities, implementation of the Programme for Localization of Imported Products Manufacture in the territory of Russia – Chief Mechanics Officer P.I. Shoter, tel. (495) 950 89 38.

5. Implementation of automation and business process management projects – Director of IT Department O.A. Kapitulov, tel. (495) 950 88 34

6. Training and raising the level of skills, engagement with educational institutions – head of the training and refreshment section of Transneft Personnel Management Department E.V. Apaev, tel. (495) 950 89 75.

7. Procurement of innovation and hi-tech products, including from SME – Deputy Vice President, Director of Tender Organization and Conduct Department E.O. Fesenko, tel. (495) 950 89 38.

8. Foreign economic activities (international cooperation, export of innovation products) – Director of Foreign Economic Relations Department O.O. Pilipets, tel. (495) 950 81 78 (ext. 1144).

9. Participation in international events – head of organizing the participation in exhibitions and conferences section A.V. Plekhov, tel. (495) 950 81 78 (etc. 1201).

10. Providing charitable and financial assistance to universities, decoration of information stands about the Transneft system – Director of Public Relations Department A.V. Gusenkov, tel. (499) 799 88 63.