



PUBLIC JOINT STOCK COMPANY TRANSNEFT
(TRANSNEFT)

Innovation Development Programme of Transneft for 2017-2021

PROFILE

Moscow

2020

1. General information

The Profile of the Transneft Innovative Development Programme (hereinafter referred to as the IDP) is developed and published with the aim of timely informing third-party organisations that are potential partners in the implementation of the IDP about the directions of innovative development of Transneft (the Company) and Transneft subsidiaries (TS), ongoing changes in innovation policy, the needs of Transneft and its subsidiaries in attracting external competencies and resources.

The IDP Profile is primarily intended for:

- third-party Russian organisations – potential suppliers of innovative solutions for Transneft and TS in order to adapt their research and development and production plans to the future needs of Transneft and TS;
- third-party Russian educational organisations in order to adapt their personnel training plans to the prospective needs of Transneft and TS;
- foreign organisations in order to identify areas of possible cooperation with Transneft and TS in the innovation field.

The IDP Profile is subject to regular updating at least annually.

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

The objectives system of the Transneft Innovation Development Programme are closely related to the objectives stated in corporate strategic documents, including the Development Strategy and the Transneft Long-Term Development Programme.

The objectives of the Transneft IDP for 2017-2021 are:

- To increase the role of innovation in achieving the Company's strategic goals;
- To improve the efficiency of key business processes and increase labour productivity;
- To lower costs of production and reduce per unit costs of transportation services;
- To improve the quality of oil and petroleum products transportation services (including reliability and safety);
- To improve the Company's energy efficiency;
- To improve the Company's environmental friendliness.

Key performance indicators of Transneft IDP for 2017-2021 are:

- Financing of innovative projects, including R&D, from own funds given as a percentage of Transneft's revenue from oil transportation services (according to RAS), %
- Number of titles of protection for intellectual property obtained during the reporting period and two previous years, pcs
- Integrated effect of in-house commercialisation of innovative projects, including R&D, for the reporting period and two previous years in terms of percentage of Transneft's revenue from oil transportation services by RAS, %
- Increased transparency of diagnostic data, %
- General level of the specific number for the TP and onsite facilities of the TP, people/object.

The IDP goals and KPI take into account the specifics of the Company as an infrastructure company focused on «internal commercialization» of the results of innovative projects and R&D, that is, their application at the TS trunk pipeline transport facilities in order to ensure the safety and reliability of their operation. Innovative projects and applied R&D are also aimed at ensuring the complete independence of the Company from foreign markets for the products supply (import substitution).

3. Medium- and long-term priority technologies and areas of technological development of Transneft, the need to attract external competencies

The list of priority areas for technological development was determined in the context of the innovation development goals and as a follow-up on the analysis and technological audit conducted by the Company in 2015-2016:

- 1) In-line inspection;
- 2) Monitoring and geolocation;
- 3) Energy efficiency improvement;
- 4) Environmental safety;
- 5) Reduction of hydraulic losses;
- 6) “One-touch” control;
- 7) Improvement of the construction and operation of storage tanks for oil and petroleum products;
- 8) Nanotechnology.

For each of these development areas the roadmaps have been formed for the development and application of innovative and promising technologies where the optimal mechanism for its implementation and the degree of planned attraction of external competencies are determined:

- 1) Purchase
- 2) Development using the principle of “open innovation”
- 3) Development using only resources of Transneft subsidiaries.

The main criteria for determining the optimal mechanism for implementing the technology and the degree of external competencies attraction are:

- 1) Confidentiality of technology – R&D was selected within the framework of the Transneft subsidiaries for such technologies;
- 2) Presence of competencies in the Transneft subsidiaries – if there are competencies in the Company, R&D seems appropriate within the framework of the TS.

The indicated technologies and directions of technological development will be developed by the Pipeline Transport Institute, including with the involvement of external experts and development institutes within the framework of the established mechanisms for innovative search and implementation of innovative solutions. Based on the results of the study, decisions will be made on the feasibility of further research and development and implementation.

4. Key Transneft innovative projects for 2017-2021

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

1. *Development of a set of high-precision In-line Inspection tools for ensuring reliability of trunk pipeline facilities.*
2. *Development and introduction of a system for monitoring the technical condition of trunk pipelines.*
3. *Development of a system of leakage detection and activity control of the temperature and vibro-acoustic principle of action (LDT and AC).*
4. *Development of energy-efficient pump units with high efficiency.*
5. *Development and introduction of domestic oil and petroleum products' lease automatic custody transfer units with improved characteristics.*
6. *Development and creation of a recovery unit for petroleum products vapor with adaptation at TS facilities.*
7. *Development and introduction of an integrated system of design production management (ISDPM).*

In addition to these projects, it is also planned to carry out applied and advanced research in the following areas:

- reliability and operation of the line, mechanical, technological and power equipment of oil trunk pipelines and tank farms;
- instrumentation, automation and telemechanics;
- environmental, fire and industrial safety of oil pipelines and petroleum products pipelines;
- transport, accounting and quality assurance of oil and petroleum products;
- metrological support;
- perspective development of the oil and petroleum products trunk pipeline system;
- design and construction of oil trunk pipelines and tank farms;
- anticorrosive coatings;
- safety systems of oil and petroleum products trunk pipeline facilities.

Description of the needs for attracting external competencies for the implementation of key innovative projects is given in table 1.

Table 1 – Description of the needs in attracting external competencies for the implementation of key innovative projects

No.	Project Name	Needs to attract external competencies
1	Development of a set of high-precision In-line Inspection tools for ensuring reliability of trunk pipeline facilities	<p>External participants with unique production technologies and methods for measuring defects are involved in the introduction of in-line inspection methods and technologies.</p> <p>The involvement of external participants for the implementation of the project is carried out through research or bidding for the supply of products.</p>
2	Development and introduction of a system for monitoring the technical condition of trunk pipelines	<p>In the process of implementing the Project, there is a need to attract external sites to perform the following works:</p> <ul style="list-style-type: none"> – Development of import-substituting equipment and software for the development of a local automated geodetic network; – High precision laser scanning; – Development by an algorithm for calculating frost heaving of soils of freezing soils in natural conditions; – Geological surveys and seismic micro-zoning of gate valves sites.
3	Development of a system of leakage detection and activity control of the temperature and vibro-acoustic principle of action (SLD&AC)	<p>Involving external partners is not planned. Development is carried out by Transneft subsidiary resources (OMEGA)</p>
4	Development of energy-efficient pump units with high efficiency	<p>In the process of implementing the Project, there is a need to attract external sites to perform the following works: examination of technical solutions, foundry production of body parts.</p>
5	Development and introduction of domestic oil and petroleum products' lease automatic custody transfer units with improved characteristics	<p>In the process of implementing the Project, there is a need to attract external sites to perform the following works: development of technical projects, metrological support.</p>
6	Design and construction of oil products vapor recovery unit with adaptation at the TS facilities	<p>In the process of implementing the Project, there is a need to attract external sites to perform the following works: development of technical solutions.</p>

No.	Project Name	Needs to attract external competencies
7	Development and introduction of an integrated system of design production management (ISDPM)	In the process of implementing the Project, there is a need to attract external sites to perform the following works: development and adaptation of ISDPM software.

5. Development of interaction mechanisms of Transneft with potential partners in the field of innovation

Within the framework of the IDP implementation, it is planned to further develop interaction with third-party organisations, apply the principles of “open innovation” in a number of areas

5.1. Procurement of innovative solutions and interaction with suppliers of innovative technologies and products, including small and medium companies

In recent years, the Company has created all the basic mechanisms to increase the transparency of procurement procedures, information transparency, and the formation of sustainable partnerships. These include, but are not limited to:

1) “Single window” system for implementing innovative solutions

The system was created in 2014.

The system operation rules are described in the Regulation on the procedure and rules for introducing innovative solutions into the activities of Transneft and Transneft subsidiaries.

To facilitate the submission of proposals, an online form has been developed and posted in the public domain at:

http://www.niitnn.transneft.ru/sustainable_development/innovation_energy_efficiency/innovation/innovation_form/

The organisation responsible for interaction with potential suppliers of innovative solutions is the Pipeline Transport Institute.

2) Partnership Programme of Transneft, Transneft subsidiaries with small and medium-sized enterprises (SMEs)

The programme is publicly available on the Company's website.

The Partnership programme is aimed at creating a network of qualified and responsible Partners from among SMEs.

The partnership programme contributes to:

- information support for SMEs, to disseminate information on the range of current and projected needs range, planned procurement volumes for the short and long terms and conditions of cooperation, maintaining a Register of partners;
- organisational support, including conferences of SMEs and information seminars, organisation of training of specialists of various categories on the regulations and requirements of corporate standards;

- formation of a competitive procurement system based on the principles of transparency, equality and non-discrimination;
- assisting Partners in concluding contracts for the supply of goods, performance of work, and the provision of services by organising kick-off meetings, ongoing meetings, and negotiations on the main provisions of the contracts.

3) Improving procurement procedures

In order to increase procurement efficiency, increase the volume of procurement of innovative products, expand interaction with innovative SMEs of Transneft, procurement procedures were amended.

According to the Regulation on the procurement of goods, works, services of Transneft, the Customer annually allocates lots for the purchase of innovative products in the procurement structure instead of traditional ones, which can be replaced by innovative products developed by SMEs and passed safety and reliability conformity assessment in accordance with the regulation on the procedure and rules for implementation of innovative solutions established by regulations of the Russian Federation.

4) Programme for Setting up Manufacture of Imported Products for Oil and Petroleum Products Trunk Pipeline Transportation in the Russian Federation

The share of imported goods in the volume of products purchased by the Company is estimated at 10% on average, however, the share of components in certain product categories is significantly higher and the cessation of their supply may have a significant impact on the volume and quality of work performed by the Company.

In order to reduce the risks associated with the dependence on import of foreign products of ensuring technological safety of oil and petroleum products trunk pipeline transportation, in 2014 Transneft developed the Programme for Setting up Manufacture of Imported Products for Oil and Petroleum Products Trunk Pipeline Transportation in the Russian Federation.

The programme includes 27 types of products, which is the most popular at the facilities of Transneft subsidiaries. At the same time, three groups of equipment and materials are to be allocated:

1 group – engineering products, which by 2020 will be completely manufactured in the Russian Federation without the use of imported components (pumps and electric drives with increased service life and efficiency, oil and petroleum products' lease automatic custody transfer units and equipment with improved metrological characteristics, stop and control valves);

2 group – materials with chemical components, which are partially produced by foreign enterprises and will be used in the manufacture of products in the Russian Federation;

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

5) Development of industry certification and testing systems

Transneft has created a powerful material, technical, economic and scientific base for selection, certification and assessment of the compliance of enterprises and products with the applicable requirements. This system is based on the formation and maintenance of the core product types register (CPT Registry), manufacturing inspection programmes and methods of acceptance and periodic testing of products.

The procedure for inclusion in the CPT Registry is performed on a declarative basis. However, for manufacturers who decide to comply with the rules of the system, they become mandatory.

Accreditation of the voluntary certification system, created on the basis of the CPT Registry, and its inclusion in the Unified Registry of certification authorities and testing laboratories (centres) ensures compliance with the mandatory requirements of the technical regulations of the Customs Union for conformity assessment, including the technical regulation “On the safety of oil trunk pipelines for transportation of liquid and gaseous hydrocarbons».

5.2. Partnership development with research and educational organisations in research and development

When planning R&D work, a significant number of collaborators are involved, including leading scientific and academic organisations: Russian Technologies Scientific Production Association, Research and Production Association Gidromash JSC, Turbonasos Federal State Unitary Enterprise, All-Russian Research Institute for Flow Metering Federal State Unitary Enterprise (All-Russian Research Institute for Flow Metering), Mechanical Engineering Research Institute named after V.V. Bahirev OJSC, Institute of Metallurgy and Materials Science of Russian Academy of Sciences, Institute of Mechanics of Ufa Research Centre of Russian Academy of Sciences, All-Russian Research Institute of Metrological Service Federal State Unitary Enterprise, Institute of Oil and Gas Issues of Siberian Branch of Russian Academy of Sciences, Institute of Thermophysics named after S.S. Kutateladze, and others.

Leading Russian higher education institutions are also involved in the implementation of the R&D Programme of Transneft: Gubkin Russian State University of Oil and Gas, Ufa State Petroleum Technical University. Far Eastern Federal University, Bauman Moscow Higher Technical School, MGIMO University, Lomonosov MSU, Higher School of Economics National Research University, Ufa State Aviation Technical University, Volga State University of Water Transport, Siberian State University of Geosystems and Technologies, Samara State Technical University, MPEI National Research University, Moscow State University of Civil Engineering National Research University, and others.

In the future, by 2021, it is planned to increase the total amount of funding for work performed by scientific and academic organisations, as well as ensure development of the material and technical base of higher education institutions.

In the programme period, the involvement of higher education institutions and research organisations in the implementation of R&D is planned in the following areas (topics):

- study of foreign experience in development of the experimental and methodological base of scientific research on the issues of oil and petroleum products pipeline transportation;

- improving energy efficiency of oil and petroleum products pipeline transportation;
- research and development of technical solutions for design of trunk pipelines and facilities of oil pumping stations in areas with abnormally geological and climatic conditions;
- development of technological solutions aimed at reducing emissions and discharges of pollutants, as well as eliminating accumulated damage and newly emerging pollution;
- study of methods for increasing delivery capacity of operated oil trunk pipelines and petroleum products pipelines;
- research in reliability of equipment and materials and improving the system of their quality indicators.

In addition, higher education institutions, research organisations and SMEs will be involved in the planned implementation of integrated key innovative projects.

Transneft performs regular monitoring of proposals from higher education institutions which come to Transneft through the Development of Scientific and Production Cooperation system (<http://aispir.ru>).

5.3. Partnership development in education, personnel requirements of Transneft for implementation of the innovation development programme

One of the important aspects of Transneft's innovation activity is the development of a continuing education system, including the processes of preparing for training, training, and advanced training at corporate and state educational institutions from a school to a higher education institution in order to satisfy the HR needs for highly qualified personnel. At the same time, the Company seeks to provide the optimal combination of developing its own corporate training system and attracting the educational competencies of third-party organisations.

Transneft and TS during the programme period plan further effective cooperation with higher education institutions in education, including in the following main areas:

- attracting lead specialists of the Company to specialised educational institutions to give lectures on issues of engineering and technology of pipeline transportation;
- advanced training and retraining of employees of Transneft in specialised higher education institutions;
- organisation of group occupational internships of students in TS with practical and laboratory classes at the Company;
- attracting students during occupational and pre-graduation internships to work in the workplace, subject to the preliminary receipt of the corresponding working profession, as part of the curriculum of study at the higher education institution;
- implementation of end-of-year papers and graduation projects (works) exclusively on the topics proposed by industry experts and agreed upon by the core department of the higher education institution;

- regular internships of higher education institution professors in TS;
- selection of talented young professionals and graduates for postgraduate studies, etc.

In order to improve the quality of education in specialised higher education institutions the following measures will be carried out:

- improving the forecasting system for the needs of oil and petroleum products pipeline transportation in senior personnel and engineering personnel;
- joint development with universities of curricula and programmes of targeted training for bachelors and masters using innovative teaching methods, both in mastering theoretical material and during regular occupational internship at the Company's facilities;
- development of methods and standards for the selection of applicants for targeted education in specialised higher education institutions as part of bachelor and master programmes in accordance with the long-term need of the Company;
- joint development of educational programmes with higher education institutions in oil and petroleum products trunk pipeline transportation;
- support of the system of specialised departments and occupational internships for professors at the Company.

On an annual basis, the material and technical base of higher education institutions and basic departments will be supported. Employees of the Company will continue to participate in teaching and developing curricula, training programs, retraining and advanced training of personnel of Transneft and TS. Senior students will be involved in occupational internship and pre-graduate work at the Company's business units and TS.

Implementation of projects to work with youth will continue (including work with schoolchildren and students, payment of corporate scholarships, youth and professional competitions).

5.4. Partnership development with technology platforms and innovative territorial clusters

In the programme period, Transneft plans to take part in the activities of technological platforms (TP) which correspond to the profile of the Company, as well as expand the forms of such cooperation.

The development of the mechanism of information exchange with relevant TP about current and future needs for innovative technologies and products will continue, as well as the development of opportunities to attract specialised TPs for joint work and projects.

Possible areas of technological cooperation of Transneft with TP are presented in table 2.

Table 2 – Possible areas of technological cooperation of Transneft with TP

Item No.	Name of technological platform	Possible areas of technological cooperation
1.	New polymer composite materials and technologies	technologies for the use of intelligent polymer composite materials; construction materials and functional coatings for use in pipeline transport.
2.	Materials and metallurgical technologies	new-generation materials with a high level of performance; intelligent, adaptive materials and coatings; light, high-strength corrosion-resistant welded materials, including those with high fracture toughness; comprehensive anti-corrosion protection, reinforcing, wear-resistant protective and heat-protective coatings; non-destructive testing of materials, study of the fine structure, mechanisms of deformation and destruction of materials, climate tests and studies of the mechanisms of aging, corrosion and biodeterioration of materials in various geophysical environments.
3.	Technologies for hydrocarbons extraction and use	resource-saving technologies in petroleum products supply; reliability and safety of oil pipelines and oil storage.
4.	Technologies of mechatronics, embedded control systems, radio frequency identification and robotics	intelligent embedded fire, environmental, industrial radiography, chemical and other safety control systems, emergencies systems; communication systems for oil trunk pipelines; embedded control and technical control systems for oil pipeline equipment and infrastructure; computer vision systems; technologies for the development of multi-link manipulator systems; technologies for creating unified modules of mobile robotics.
5.	National software platform	distributed and high-performance computing; software and system engineering.

Item No.	Name of technological platform	Possible areas of technological cooperation
6.	Integrated industry and energy security	technologies and systems of intellectual technical diagnostics and non-destructive testing; technologies for operational regular mode diagnostics of equipment, as well as heat and power supply systems without decommissioning them; technologies for diagnosing the internal structure of materials; electrophysical technologies for the protection of energy facilities and oil transportation infrastructure facilities; technology of monitoring, status and safety level of complex technical systems.
7.	Aviation mobility and aviation technology	the use of unmanned aerial vehicles for monitoring of oil pipelines and operational mapping.

In recent years, Transneft has accumulated significant experience in interacting with key participants in a number of pilot regional innovation clusters (RICs).

The main way of interaction is bilateral agreements with cluster members. The subject of such agreements are:

- joint developments,
- training, advanced training,
- procurement and maintenance of special equipment.

Close interaction has developed with the Petrochemical Regional Cluster (the Republic of Bashkortostan), participant of which is IPTER (The Pipeline Transport Institute owns 100% of the share capital).

It is planned to develop interaction with the Kama Innovative Regional Operational Cluster (the Republic of Tatarstan) within the framework of the project to create a joint venture to develop and manufacture new Russian chemical products to ensure the transportation of oil and petroleum products in the territory of the Alabuga special economic zone (the Republic of Tatarstan).

In addition to bilateral relations with individual participants of the pilot scientific and technical conferences, in the coming years it is planned to switch to systemic interaction and conclusion of agreements with specialised organisations of these clusters. The subject of such agreements will be:

- the formation of a regular communication system between Transneft, TS and the participants of the pilot RIC, including for the purposes of technological development of the parties to the agreement;

- implementation of joint educational activities on the basis of higher education institutions and scientific organisations participating in the cluster in order to improve the skills of TS employees;
- informing and advising cluster members about ongoing and planned research and innovation projects of Transneft and TS;
- informing and advising cluster members, including SMEs, on procurement planning of Transneft and TS and implementation of the import substitution strategy;
- improving the efficiency of using innovative infrastructure facilities created on the cluster territory in the interests of Transneft and TS;
- involvement of Transneft and TS in the implementation of infrastructure projects under the cluster development programme, including projects for the formation of industrial, innovative and social infrastructure in the cluster territories.

First of all, the issue of concluding agreements with specialised organisations of the Petrochemical Regional Cluster of the Republic of Bashkortostan and the Kama Innovative Regional Operational Cluster of the Republic of Tatarstan will be considered. In the future, it is planned to work out the issue concerning the need to expand the number of such clusters.

6. The list of Transneft subsidiaries (TS) participating in the implementation of the innovation development programme

Item No.	Subsidiaries and Affiliates Name	Contact Details	Website
1	Transneft Urals, JSC	10 ul. Krupskoy, Ufa, Republic of Bashkortostan, 450077 +7 (347) 279-21-07 / 272-96-44	https://ural.transneft.ru/
2	Transneft Western Siberia, JSC	111 ul. Krasny Put, bldg. 1, Omsk, 644033 +7 (3812) 65-35-02 / 65-98-46	https://westernsiberia.transneft.ru/
3	Transneft Kama Region, JSC	20 ul. Patrisa Lumumby, bldg. 1, Kazan, Republic of Tatarstan, 420081 +7 (843) 279-04-20 / 279-01-12	https://kama.transneft.ru/
4	Transneft Siberia, JSC	139 Respublika str., Tyumen, 625048 +7 (3452) 32-27-10 / 20-25-97	https://siberia.transneft.ru/
5	Transneft Druzhba, JSC	113 Uralskaya str., Bryansk, 241020 +7 (4832) 74-76-52 / 67-62-30	https://druzhba.transneft.ru/
6	Transneft Central Siberia, JSC	24 ul. Naberezhnaya reki Ushayki, Tomsk, 634050 +7 (3822) 27-54-93 / 27-54-26	https://centralsiberia.transneft.ru/
7	Chernomortransneft, JSC	Sheskharis, Novorossiysk, Krasnodar Territory, 353911 +7 (8617) 60-34-51 / 64-55-81	https://chernomor.transneft.ru/
8	Transneft Upper Volga, JSC	4/1 Granitny per., Nizhniy Novgorod, 603600 +7 (831) 438-22-70 / 438-22-05	https://uppervolga.transneft.ru/
9	Transneft Baltic, LLC	11 Arsenalnaya naberezhnaya, bldg. A, St. Petersburg, 195009 +7 (812) 380-62-25 / 660-07-70	https://baltic.transneft.ru/
10	Transneft Volga Region, JSC	100 Leninskaya str., Samara, 443020 +7 (846) 333-44-98 / 999-84-46	https://volga.transneft.ru/
11	Transneft North, JSC	2/1 prospekt A. I. Zeryunova, Ukhta, Komi Republic, 169313 +7 (8216) 77-13-00 / 76-01-71	https://north.transneft.ru/
12	Transneft East, LLC	14 ul. Olimpiyskaya, residential district Energetik, Bratsk, 665734 +7 (3953) 300-737 / 300-703	https://vostok.transneft.ru/
13	Transneft Far East, LLC	1 ul. Zaparina, Khabarovsk, Khabarovsk Territory, 680020 +7 (4212) 40-11-01 / 40-11-99	https://fareast.transneft.ru/

Item No.	Subsidiaries and Affiliates Name	Contact Details	Website
14	Transneft Primorsk Port, LLC	7 Portovy proezd (Primorsky Massiv Territory), Vyborg District, Leningrad Region, 188910 +7 (81378) 78-778 / 78-720	https://primorsk.transneft.ru/
15	Transneft Kozmino Port, LLC	78 ul. Nizhne-naberezhnaya, settlement Vrangel, Nakhodka, Primorie Territory, 692941 +7 (4236) 77-10-00 / 77-10-15	https://kozmino.transneft.ru/
16	Transnefteproduct, JSC	8A prospekt Vernadskogo, Moscow, 119311 +7 (495) 915-98-07 / 915-94-37	https://transnefteproduct.transneft.ru/
17	Transneft UW Service, JSC	19-A ul. Larina, Nizhny Novgorod, 603152 +7 (831) 437-77-63 / 437-77-79	https://tps.transneft.ru/
18	Svyaztransneft, JSC	12 ul. Nametkina, Moscow, 117420 +7 (495) 950-80-70 / 950-80-75	https://svyaz.transneft.ru/
19	Giprotruboprovod, JSC	24 ul. Vavilova, building 1, Moscow, 119334 +7 (495) 950-86-50 / 950-87-56	https://giprotruboprovod.transneft.ru/
20	Transneft Diascan, JSC	7 ul. Kuybysheva, Lukhovitsy, Moscow Region, 140501 +7 (496) 635-09-14 / 635-09-13	https://www.diascan.transneft.ru/
21	The Pipeline Transport Institute, LLC	47a Sevastopolskiy prospekt, Moscow, 117186 +7 (495) 950-82-95 / 950-82-97	https://niith.transneft.ru/
22	OMEGA, JSC	6 ul. Akademika Koroleva, bldg. 1, Moscow, 129515 +7 (499) 137-51-65 / 135-65-39	https://www.omega.transneft.ru/
23	REM, JSC	8 ul. Eniseyskaya, Chelyabinsk, 454010 Tel./Fax +7 (351) 204-44-45	https://red.transneft.ru/
24	Transneft Oil Pumps, JSC	8 ul. Eniseyskaya, Chelyabinsk, 454010 Tel./Fax +7 (351) 216-88-93 / 216-85-70	https://pumps.transneft.ru/
25	Transneft Synthesis, LLC	Special Economic Zone Alabuga, SH-2, building 4/1, Elabuga, Republic of Tatarstan, 423600 Tel./Fax +7 (987) 181-45-98	—

7. Contact details

1. Implementation of the innovation development program – Head of the Department of Innovation Development and R&D Soschenko A.E., tel. (495) 950-81-78 (ext. 1150).

2. Implementation of environmental activities, participation in the technological platform “Technologies for Sustainable Ecological Development” – Head of the Environmental Safety and Rational Nature Management Section: Radchenko E.Ya., tel. (495) 950-81-78 (ext. 1560).

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

4. Development of mechanical and power equipment, development of own companies, implementation of the Programme for Setting Up Manufacture of Imported Products in the Russian Federation – Chief Mechanics Officer Shoter P.I., tel. (495) 950-81-78 (ext. 1197).

5. Implementation of projects on automation and business processes management – Director of the IT Department Kapitulov O.A., tel. (495) 950-81-78 (ext. 1501).

6. Education and advanced training, interaction with higher education institutions – Head of the Training and Refreshment Section of the Personnel Management Department Apaev E.V., tel. (495) 950-81-78 (ext. 1753).

7. Procurement of innovative and high-tech products, including at SMEs – Deputy Vice President and Director of Tender Organization and Conduct Department Fesenko E.O., tel. (495) 950-81-78 (ext. 2877).

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

9. Participation in international events – Head of the Organisation of Participation in Exhibitions and Conferences Section of the Foreign Economic Relations Department Koroleva S.A., tel. (495) 950-81-78 (ext. 1555).

10. Providing charity and financial assistance to higher education institutions, arranging bulletin boards for the Transneft system – Director of the Public Relations Department Gusenkov A.V., tel. (495) 950-81-78 (ext. 2500).