DESIGNING THE FUTURE
Quality since 1935
OJSC GIPROIV

GIPROIV are leading developer of an integrated project solutions, designs and construction of enterprises in various industries (fibre, composite, polymers, synthetic rubbers, plastics, organic synthesis products, polyethylene terephthalate, acrylates, etc), including the technologically sophisticated facilities, and full infrastructure.

GIPROIV performs in full function of the general designer, accurately and in time develop construction documents and implements supervision over construction.

Project management carried out on targets and timeframes of implementation, provided the necessary standards of quality and safety of the works being monitored implementation of the budget and estimates, focusing on contractual relationships and obligations, as well as the protection of safety, environmental protection, fire safety and other important parameters. The company advises customers in all phases of the project and may take part in the installation, commissioning and putting into operation.

GIPROIV serves as the general contractor, which include the preparation of the documentation necessary to carry out all types of construction works, control and supervision of subcontracting, the organization of work on the project in accordance with design and regulatory documentation.

Today by the GIPROIV projects was build more than 100 plants, put into operation more than 70 objects of housing, civil and economic purposes, significant amount of infrastructure.

Customer provides only unique, contemporary design, technology and construction solutions.
INDUSTRIAL ENGINEERING

GIPROIV provides design and construction of plants (and objects) in various industries, including the technologically sophisticated facilities:
• Chemical and petrochemical industries;
• Production of chemical fibres;
• Manufacture of composite materials;
• Manufacture of plastics;
• Technological installations of petrochemical processes;
• Instrument-making facilities;
• Power generation facilities, including boilers;
• Waste treatment plants of industrial enterprises;
• Plants of different sectors of industry;
• Industrial buildings, manufacture buildings and warehouses;
• Linear structures (bridges, roads, gas pipelines, high and low pressure, storm sewer).

Full range of industrial design includes:
• Study and approval of the initial data;
• Technical specifications;
• Technical and commercial proposals;
• Preliminary engineering survey;
• Development of sketches of projects;
• Preparation all sections of construction documents, including special sections: engineering civil defence and emergency situations (engineering civil defence measures, measures for the prevention of emergencies);
• Calculation of the local, object estimates;
• Complete calculation of the estimated construction cost of the project;
• Environmental impact assessment (EIA);
• Protection of the environment (HSE);
• A declaration of industrial safety (IVG);
• Development of projects of sanitary protection zones (SPZ), maximum permissible emissions (MPE), standards for waste and limits on their placing (DW-GNDL);
• Packaging, organization and support expertise of project documentation in the Governmental organisations (GlavGosExpertisa, etc);
• Author’s supervision.

Development of operational documentations include the following:
• Emergency response plans;
• Regulations;
• Simulators and Information 3D-models of highly dangerous production facilities in compliance with the Ministry of Emergency Situations.

Provide full support for the construction and operation, namely:
• Planning and control of time and resources to perform the work with the system scheduling;
• Organization and implementation of modern electronic document management, which corresponds all the requirements of modern organizations;
• Implementation services and support 3D-archive, design and engineering information based on VNET-portal of AVEVA.

Currently used three-dimensional design based on solutions AVEVA and technological simulation based on AspenTech HYSYS:
• The construction of three-dimensional models and production systems, using PDMS system from AVEVA;
• Development of training simulators;
• Calculation and simulation of technological processes and equipment.
GIPROIV carries out the design and construction of housing and civil purposes:

- Housing complexes;
- Hotels;
- Multifunctional complexes;
- Social facilities (administrative, commercial and residential buildings);
- Storehouses any type of temporary storage warehouses (including with refrigeration equipment);
- Logistics complexes;
- Clean rooms;
- Heating systems;
- Ventilation and air conditioning facilities;
- Facilities for water supply and sanitation;
- Objects of automatic control and instrumentation;
- Power supply facilities;
- Transport infrastructure (roads, bridges, overpasses, etc.);
- Facilities and wastewater treatment systems, sewage systems;
- Capacitive structures of any type;
- Petrol stations, car service stations;
- Parking of motor vehicles.

Full range of design works includes the development:

- Sketches of projects and architectural solutions;
- Supporting and enclosing structures, and roofing;
- Systems of gas supply, heat supply, heating, ventilation, water supply and sewerage systems of buildings and structures;
- Electricity, lighting, television, telephones of buildings;
- Fire and security alarm.
COMPLETED PROJECTS OJSC GIPROIV

Federal industrial projects

**General designer**

**KEMIN INDUSTRIES**
Kemin is recognized world leader in feeding animals and birds. Kemin Industries (Lipetsk) began construction on the plant ingredients for the food, feed and pharmaceutical industries.

**General designer**
Production of calcium hypochlorite with capacity of 5000 tons/year.

**PRODUCTION ASSOCIATION KHIMPROM**
KHIMPROM is one of the largest chemical enterprises in Russia. The main products manufactured is the production of organic and inorganic chemistry — caustic soda, hydrochloric acid, liquid chlorine, ethylcellosolve, propylene oxide, and brake fluids and other products of organic chemistry.

**General designer**
Develop project and working documentation, supply of equipment carried, carried out supervision of construction (2003).

**POLIEF SIBUR**
The company is part of the Group Companies SIBUR. Russian leading manufacturer of terephthalic acid (TPA) and one of the largest in the world in the production of polyethylene terephthalate (PET).

**General designer**
Develop project and working documentation of pilot plant production of synthetic liquid fuels (2007).

**GAZPROM VNIIGAZ**
The organization provides a unified scientific and technical policy and coordination of research in the gas industry in major target and engineering projects and programs, conducts research, experimental and development work.
General designer
Develop project and working documentation (2010).

ORTON SIBUR
The company is part of the Group Companies SIBUR. The largest producer of geosynthetics (geogrids and nonwoven geotextiles) in the Asian part of Russia.

PLASTIC-GEOSYNTHETIKA SIBUR
The company is part of the Group Company SIBUR. It produces polymer lattice construction «Aprolat» nonwoven geotextiles «Kanvalan».

SNV ROSATOM
Leading manufacturer of synthetic polyacrylonitrile (nitronic) fibres.

ARGON ROSATOM
The largest manufacturer of carbon fibres in Russia, including high-quality carbon materials for the needs of the military-industrial complex of the Russian Federation.
General designer
Develop project and working documentation (2013).

**ALABUGA-FIBER**
Plant for the production of carbon fiber Holding Company Composite built by order of the State Corporation Rosatom in the SEZ Alabuga in Tatarstan.

General designer
Develop project and working documentation for the production of prepregs based on carbon fibres and nano-modifying nano-filled binders in the production area AZLK (2013).

**PREPREG-SKM**
The company produces a wide range of unidirectional tapes and multiaxial fabrics of equal strength, as well as prepregs (semi-finished products for the polymer composite materials of new generation).

General designer
Develop project and working documentation for the creation of an instrument building and a complex of clear-rooms (2014).

**MIC MASHINOSTROYENIA OJSC**
The leading space and rocketry company of Russia, the Armed Forces of the country provides the latest types of military equipment, carries out military-technical cooperation with foreign partners.

General designer
Develop project and working documentation, as well as production technology based on carbon-composite materials (2014).

**NIIGRAFIT ROSATOM**
Leading Research Institute of construction materials based on graphite. The Institute is actively involved in the implementation of federal target programs and performs state defence order.
General designer
Develop documentation for the project «Modernization of installations regeneration of spent acid, 2-nd stage». Agreed Glavgosexpertiza Russia (2015).

General designer

BIYSK OLEUM PLANT
Federal State Enterprise Biysk Oleum Plant — is one of the leading enterprises of the Russian military-industrial complex.


FSE PLANT NAMED AFTER Y.M.SVERDLOV
Unique scientific-production company the largest in terms of production and technological capacity in the Russian military-industrial complex.

Develop working documentation of the project «Reconstruction and modernization of the winding and machining industries» (2015).

JSC AVANGARD
The leading Russian enterprise producing large-size fiberglass units and various plastic and rubber goods.

Develop project and working documentation for the project «Reconstruction and modernization of the branch Tupolev in Samara». Agreed Glavgosexpertiza Russia (2015).

TUPOLEV PJSC
The largest developer of aircraft engaged in the design, manufacture and testing of aircraft for various purposes, creation and implementation of new technologies for production.
Develop project and working documentation for the project «Reconstruction and construction of the airfield Ahtubinsk» (2015).
Perform design and survey work for the project «Reconstruction (construction) airfield Kipelovo». Develop project documentation (2015).
The complex of works on survey, design documentation under «Relocation of utilities and implementation of technical conditions for accession» stage «Project documentation» and «Working documentation» for the project «Reconstruction of the airfield Mozdok, Republic of North Ossetia-Alania» (2015).

FEDERAL AGENCY FOR SPECIAL CONSTRUCTION
Russia’s largest public organization in the field of construction facilities special and industrial purposes.

Federal civil objects

**Consultant, designer**
**ARUP**
The world’s leading architectural group, to develop a wide range of multi-functional facilities, from residential and office complexes to urban concept with the reshaping and restoration of urban areas.

**Contractor**
Development stage «Project documentation» Skolkovo Institute of Science and Technology, including a draft set of clear-rooms (2013).
**ARUP**
The world’s leading architectural group, to develop a wide range of multi-functional facilities, from residential and office complexes to urban concept with the conversion and recovery of urban areas.
General designer
Develop project and working documentation (2014).

**THE PETERSBURG NUCLEAR PHYSICS INSTITUTE (PNPI)**
PNPI is one of four nuclear physics centres within the National Research Centre Kurchatov Institute. PNPI is multidisciplinary research centre, leading fundamental and applied research in the field of elementary particle physics and high-energy nuclear physics, condensed matter physics, molecular and radiation biophysics.

General designer
Develop project and working documentation for the creation of a complex of clear-rooms (2014).

**INSTITUTE OF SYNTHETIC RUBBER**
The great scientific centre wherein all fundamental and applied studies in the field of rubbers and lattices at Russia are concentrated. More than 90% all types of rubbers and lattices produced at Russia have been developed by Institute employees.

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**CONSTRUCTION AND INSTALLATION WORKS**

General contractor

**BIYSK OLEUM PLANT**
Federal State Enterprise Biysk Oleum Plant — is one of the leading enterprises of the Russian military-industrial complex.

Projects were carried out for the following companies:
- METALLIST (Ivanteevka, Moscow Region),
- INSTITUTE OF PLASTICS (Moscow),
- ORGSIN-INVEST (Moscow),
- SPECIAL SYSTEMS AND TECHNOLOGIES (Mytishchi, Moscow Region),
- TERMAFLEKS INSULATION+ (Shchelkovo, Moscow Region),
and many other.
**LICENSES, CERTIFICATES**

The key to the success of the company’s quality assurance system is in full compliance with normative control, covering all stages of the design and project management.

This is confirmed by the Certificate Quality Management System GOST R ISO 9001-2000.

- All documentation issued in strict accordance with the basic state standards and rules (GOST, SNIP, TSN, SanPiN, decisions of the government and regional administrations).
- Project activities carried out based on the license for the design of buildings and constructions I and II levels of responsibility according to state standard.

GIPROIV provides technical support for the project documentation when passing the state examinations.

Our experts have all the necessary qualification certificates ROSSTROY, TSNIIPROEKT-INVEST, ROSTECHNADZOR certificate of qualification on industrial safety of hazardous production facilities, as well as extensive experience in the design of explosion-hazardous production facilities (the certificate of certification for fire and safety engineering).

- GIPROIV is a member of SRO NP NEFT-EGA ZSERVIS (partnership brings together more than 100 companies engaged in the design of capital construction) and has a certificate of admission to all kinds of works on preparation of project documentation.
  - GIPROIV is a member of SRO NP GASO (partnership brings together more than 100 companies of the construction industry engaged in the design and construction of various facilities).
  - GIPROIV is a member of Association Energy Field Organizations. The Association aims to promote the introduction of energy saving technologies and equipment at the facilities of the public sector, housing and communal services enterprises of the industrial sector, promote energy management among heads of state, municipal and private organizations and enterprises.
  - GIPROIV is a member of The Russian Chemists Union.
All designed objects GIPROIV meet modern requirements for the protection and conservation of the environment from any harmful effects, as in the construction of the facility, and in its functioning.

Full range of environmental protection include the following activities:

- Air protection;
- Water recycling (including production facilities);
- Collect, use, disposal, transportation and disposal of hazardous waste.
ENERGY EFFICIENCY

In our country, deployed throughout the work on energy efficiency. Low energy prices have not helped our economy become effective. Rather, the hothouse conditions of energy consumption slowed down technological progress and modernization in production and consumption. Currently, the cost of energy and energy resources in the country close to the price level in the countries with developed market economies. This provoked a sharp rise in prices of services, primarily in the sphere of housing and communal services. The market today is urging all the parties to the rational use of all resources. It is a condition of survival. The Federal Law № 261 (23 November 2009) «On energy conservation and energy efficiency improvements and on Amendments to Certain Legislative Acts of the Russian Federation» requires all state and municipal agencies, to carry out energy saving measures. Moreover, to carry out such activities should be a professional company with the proper training, equipment, experience and tolerance to certain types of work.

GIPROIV successfully applied in their projects are highly energy-efficient technologies according Federal Law № 261.
GIPROIV provides support for projects at all stages of negotiation, expertise and bring projects to build up their adoption and implementation.

Author’s supervision carried out for compliance of construction and other types of work laid down in the draft decision and the requirements of the original permits.

If any deviations from the project (technological inconsistencies, changes in the characteristics, inaccuracies, etc.) — the representative of the company to solve all the problems as soon as possible.

Particular attention paid to planning, all the work carried out strictly according to regulations developed by the time and each stage of the design completed as scheduled.
GIPROIV collaborates with leading world manufacturers of equipment and technologies, such as DUPONT, KOBE STEEL, ZIMMER, SINCO, NOVAILES CHINA, KEMTEX, MITSUI, UHDE-INVENTA-FISCHER, UOP and others.

**RE-ENGINEERING**

GIPROIV carries out a full range of activities aimed at improving the existing production facilities, projects and technologies. Develop new approaches to the structure of processes, technologies used, and the existing infrastructure of production. As a result, of this work for the customer to create a fundamentally new project marketable.

Conducting a survey of industrial sites under reconstruction, with the issuance of conclusions on the feasibility and advisability of a new construction or renovation, with all this considered a set of parameters (technology, ecology, construction part, economy of technological processes and others).

The results of the re-engineering of the project are recommendations for restructuring, the development of a feasibility study for reconstruction, are necessary expert assessments and as a result — the project to life.

**SUPPLY AND INSTALLATION OF EQUIPMENTS**
EXPERIENCED TEAM

GIPROIV — it has experienced team of professionals at the highest level, where each is a unique specialist in his field. Deep knowledge in the field of design, management, construction and operation of industrial and civil objects, as well as an impressive experience, allow you to implement the most advanced and unique projects for our customers.

The ability to analyze the whole set of tasks to optimize the design process, to comply strictly with the necessary standards and technologies that allow us to guarantee to succeed in the most challenging projects.

The effectiveness of any project can be ensured only by a strong, dynamic, versatile trained team of professionals who share a commitment to a common goal.

We are doing our job professionally and with pleasure!
CONTACTS

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