



# **SZNRO**

GROUP OF COMPANIES



# GC Samara oil and tank equipment plant

## Facilities of Samara oil and tank equipment plant



- Group of companies of Samara plant of OTE performs designing, production, construction, retrofitting and upgrading of oil installations, manufacture of tanks **(multiple tanks per day)** and tank equipment. Meeting tolerances are available.
- Group of companies of Samara plant of OTE employs highly qualified staff containing **over 200 people, includes three plants**, design institute, proper transportation fleet.
- “SZNRO- Design” Ltd performs comprehensive works on designing and reconstruction of oil tank farms, fuel and lubricant storages, tank batteries, refueling complexes, filling stations.

## GC SZNRO – designing, production, construction, contract supervision and maintenance

- **52 000 units of tank equipment have been manufactured over 10 years;** total area of processed metal is over **31 000 000 m<sup>2</sup>**.
- Strategic partners of GC SZNRO: Rosneft, Lukoil, Gazprom, Bashneft.
- The company administers vigorous activity on the territory of the Russian Federation and CIS, providing comprehensive approach in designing of oil tank farms, filling stations, fuel and lubricant storages, tank batteries; executes their construction, equipping and service maintenance.
- GC SZNRO is able to perform functions of prime contractor and general designer at construction of oil tank farms, tank batteries, filling stations, industrial buildings and structures.



# GC SZNRO



Over 80 objects of rendered services per year



**SZNRO**  
SERVICE

Construction and reconstruction of industrial facilities



**SZNRO**  
INSTALLATION

Above 16 groups of Engineering categories



**SZNRO**  
DESIGN



**SZNRO**  
GROUP OF COMPANIES



**SAMARA OIL AND TANK  
EQUIPMENT PLANT**

Production volume is over 1700 ton/year



**SZNRO**  
TRADE HOUSE

Capital turnover is 3000 million/year



**PLANT  
OF TANKS "FED"**

Production intensity:  
One tank a day

# GC SZNRO — structure



GC SZNRO; designing, production, construction, supervision and maintenance

- **„SZNRO-design“ LLC | Samara**

Designing of updated oil tank farms, product batteries, fuel and lubricants storages, filling stations, refueling complexes and tanks. All design projects undergo expert review by Glavgosexpertiza (Moscow) and safety expert review (registration in Russian federal service for ecological, technical and atomic supervision).

- **„SZNRO — parent company“ LLC | Samara**

Works of effective oil tank equipment: fire-protection, breathing, acceptance-distributing, sampling, hatches and sockets, emergency valves and support facilities.



# SZNRO

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- **Plant of horizontal tanks LLC „FED“ | Chapaevsk**

Manufacture of VSST, HST, UV , UVB, devices and pressure tanks (up to 12 MPa).

- **„SZNRO-installation“ LLC | Samara**

Renders comprehensive services and works on construction and reconstruction of oil tank farms, filling stations, refueling complexes, fuel and lubricants storages and other oil installations and tank erection.

- **„SZNRO-service“ LLC | Samara**

Renders services on equipment repair, performance of benchmark tests, services on tank cleaning, installation supervision etc.

- **„SZNRO TH“ LLC | Samara**

Exclusive dealer of GC SZNRO, executing comprehensive equipment supplies to oil refining and gas and oil producing industry, oil tank farms, filling stations, refueling complexes, fuel and lubricants storages etc.

# Examples of works

## Engineering and design services

- Research and development enterprise “Diagnostic and nondestructive examination” — complete reconstruction. Integrated storage of fuel and lubricants, batteries volume is over 250 thousand m<sup>3</sup>.
- “Gaspromneft-terminal” — revamping and upgrading of Turinsk oil tank farm. Plant of dispensing additives for remote terminal unit.  
Revamping and upgrading of Nizhny Tagil oil tank farm. Plant of dispensing additives for remote terminal unit..
- Research and development enterprise „SOTEKS“ — tank battery, process networks, tank-cars discharge point.  
“Tulanefteprodukt” — development of design and working documentation on retrofitting and upgrading of Novomoskovsk oil tank farm.  
“Motor oil and automobile chemistry” — design works, general plan of workshop reconstruction, project for oil vertical steel tank 1000 erection.  
“Russian innovative fuel and power company” — performance of design and survey works for object: “Retvamping and upgrading of structures for brine water distribution system in OUT “Kazakovskaya” TD “RITEK-Samara-Nafta”.

## Tanks and vessels

- “Lukoil” — vessels and tanks ( VEE, GEE, RNGE, SCV);
- “Volganefteprodukt”» — vertical steel tanks — 12 pcs.;
- “Novokuybyshevsk oil refinery” — vessels, cylindrical devices for liquid and gas-oil non-aggressive mediums;
- “Rosneft” — ground stainless steel tanks (GSST 50m3), vertical steel tank (VSST 5 000 m<sup>3</sup> with floating hull, underground vessel for condensate collection V= 12,5 m<sup>3</sup>;
- “Novokuybyshevsk process plant of oils and additives” — vertical cylindrical steel tank (VSST 2 000 m<sup>3</sup>);
- “Tomskneftegasserviz” — vertical steel tank (VSST 3 000 m<sup>3</sup>);
- “Achinsk oil refinery” — cylindrical tank (VSST 3 000 m<sup>3</sup>, VSST 2 000 m<sup>3</sup> VSST1 000 m<sup>3</sup>, VSST 2 0000 m<sup>3</sup>);

# Examples of works

## Compensation system of loads on tank

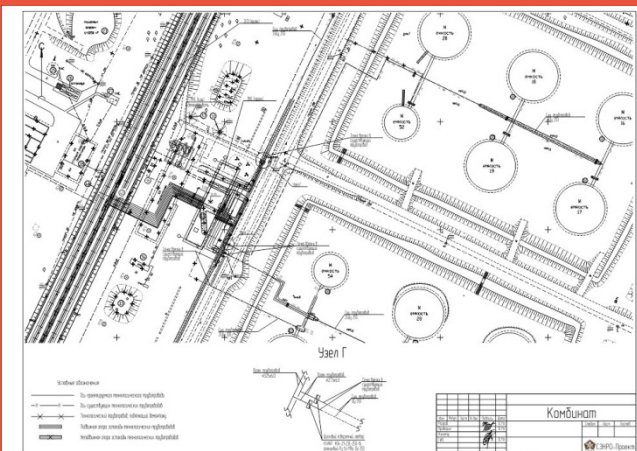
- “Rosneft-Bunker” — compensation systems of loads on tank over 40 pcs.; tank equipment: breathing valves, measuring hatches, low-expansion foam chambers, flame arresters, installation kits;
- “Vankorneft” — expansion bellows over 60 pcs.;
- “Uralequipment” — expansion bellows;
- “Tatneft” under name of Shashin V. D. — rectangular cancellers ;
- “Geology” — axial bellows canceller (ABC);
- “Mekhstroiservis” — bellows cancellers 10 pcs.;
- „Novatek-Ust-Luga“ — compensation system of loads on tank ;
- “The Black sea transshipment complex” — compensation system of loads on tank 10 pcs.

## Tank equipment

- “Surgutneftegas” — tank equipment: breathing valves, sampling equipment, hatches and sockets;
- “Rusneft” — tank equipment: light hatches, breathing valves, sockets, samplers, internal check valves;
- “Tatnefteprodukt” — tank equipment: breathing valves, flame arresters, medium-expansion foam generators, measuring hatches;
- “Samara fuel company” — flame arresters, light hatches, measuring hatches, man access penetration, breathing valves, fire-protection equipment: foam generator, low-expansion foam chamber etc.;
- “Company LVZ 701” — breathing valves, disk-reflectors, sampling devices, medium-expansion foam generators.

# Proper design power

## Detailed design stream



- Projects design for tanks modernization, with volumes up to **20 000 m<sup>3</sup>**.
- SZNRO-design develops only reliable and safe projects, as evidenced by sound experience of projects design for construction and reconstruction of oil tank farms for objects of CJSC "Gaspromneft-Terminal", Oil company "Lukoil", Rosrezerv.

„SZNRO-Design“ LLC (Samara);

Profile:

wide experience of tanks designing, vessels, gas-holders, process equipment of oil tank farms, filling stations, oil refineries, including reconstruction of oil tank farms with storage capacity **over 300 thousand m<sup>3</sup>** without stoppage in production.

- It is affiliated with construction incorporation "Stroiobyedineniye" and authorized to perform complete set of design and survey works on highly dangerous and sophisticated objects № SRO-P-145-04032010 dated 01.11.2011.
- Feasibility study (FS), conceptual study on performance of engineering investigations and surveillance, development of main designing solutions and their coordination with customer, design documentation of project, tracking of state expert review documentation, detailed design and method statement.

# SZNRO in-house facilities



Parent company “SZNRO” LLC (Samara)

Profile:

production of tank equipment.

- Production volume is over 1700 ton/year;
- six production workshops: plasma arc cutting workshop, piston workshop, workshop of numerical program control machines, tank equipment workshop, large-sized products workshop with beam crane;
- plasma arc cutting machines;
- turning lathes with NC;
- induction furnace;
- orbital welding unit;
- track welders;
- production of tank equipment: breathing, sampling, acceptance-distribution, fire-protection, emergency valves, hatches, sockets etc.;
- proper transportation fleet;
- bead-blasting and paint-spraying booths.

# In-house facilities



„FED“ LLC (Chapaevsk)

Profile:

production of VSST, HST, UV and UVP, devices and pressure tanks.

Production technique: 25 units of equipment. Capability to manufacture vessels under pressure up to 12 MPa.

- Four production workshops plasma arc cutting workshop, assembly workshop, painting workshop, milling workshop;
- welding columns and tractors;
- bead-blasting machines;
- 3 sheet-bending machines and 4 roller machines;
- paint-spraying booths;
- plasma arc cutting machine;

# In-house facilities



„SZNRO-stroimontazh“ LLC (Samara)

Profile:  
erection and construction of tanks.

- Repair and overhaul of oil plants, oil tank farms, fuel and lubricant storages, buildings, structures, workshops;
- cleaning and dismantle of tanks, loading and unloading racks;
- revamping and upgrading and reconstruction of enterprises and objects of oil and gas industry branch;
- “turn key” erection of tanks: foundation, steelworks, tests, automatics;
- provision of as built documents, commissioning.

Production technique: 27 units of equipment.

# SZNRO-Service capacities

Service activities in regard to oil industry



„SZNRO-Service“ LLC (Samara)  
Profile: erection and supervision of tank equipment.

- Test bed for flame arresters;
- test bed for breathing valves;
- testing of foam generators (MEFG, SFG, CND), tank cleaning;
- availability of proper transportation fleet;
- production technique: 24 units of equipment;
- sand-blasting and bead-blasting machines;
- above 80 servicing objects per year.

# Utility and commercial services by TH SZNRO



## „TH SZNRO“ LLC (Samara)

Profile: sales of products and services of oil industry:

- **”turn key”** packaged supply;
- selection of tank equipment for your needs;
- consideration and feasibility study of equipment application according to the current normative and technical documentation;
- development and filling out data sheets for technically complicated oil tank equipment;
- provision on request with assembly and outline drawings for transportation and installation of proposed oil equipment;
- laying down of specifications for the order of selected tank equipment;
- TH SZNRO combines multiple services, providing integrated approach for the purpose of solving customer’s tasks.

- Arrangement of exhibition activities on state and international levels.

# Research scientific works



- Cooperation with students of Samara State Technical University, Samara State Architecture-Construction University, Samara State Aerospace University, Samara State Academy of Culture and Art. Arrangement of practice, training, working with reports, participation in fair of vacancies and methodic work;
- publication of research and methodology literature. Textbook for universities regarding **“Tanks for oil and oil products”** has been published, currently work on publication of textbook **“Tanks and tank equipment”** is carried out;
- conducting research in proving ground, including fire tests;
- training of design institutes towards upgrade of their qualification in speciality of “Tanks designing” and “Selection of tank equipment”;
- development and tests of crucially new versions of tank equipment and so development of oil industry;
- performance of tests in laboratory of non-destructive examination of engineering samples.

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# Supplies geography



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We grow, so that our customers feel comfortable

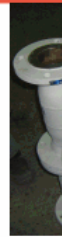


- 1) To become your effective, long-term partner, providing qualitative and timely execution of construction and repair works with account of advanced experience and innovations.
- 2) Growth of efficiency and investment attractiveness of customer oil objects.



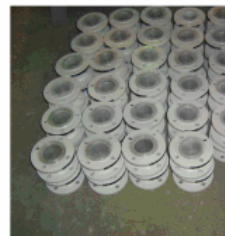
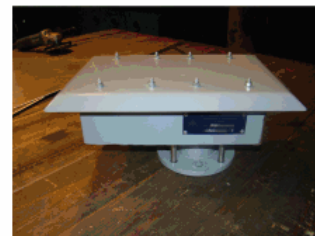
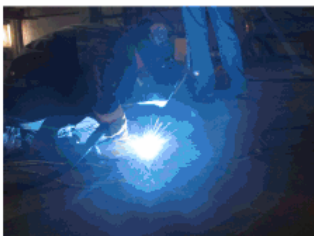
3) Extension of partnership relations with key companies in the market of oil industry on a long term horizon, provision of qualitative and crucially new works level in both fields of service and applied technologies.

4) Raising of oil industry on crucially different level of development due to advanced techniques and technologies, developed and introduced by efforts of GC SZNRO specialists.



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# GC SZNRO – Always connected!



We offer you to consider the possibility of launch and further development of mutually beneficial co-operation within your investment program for a period ahead. We will exert every effort to attain joint uppermost results!



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