



**STELLA**  
COMMERCIAL AND INDUSTRIAL COMPANY

ENGINEERING, PRODUCTION AND SUPPLY  
**PROCESS EQUIPMENT FOR FUEL & ENERGY COMPLEX**

[WWW.TPK-STELLA.COM](http://WWW.TPK-STELLA.COM)

# ABOUT COMPANY

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CIC «Stella» is a multi-industry company that develops and makes the wide range of technological equipment and offers effective solutions for the oil and gas complex.

The company is located in Moscow, Central Federal District of Russia. Since the company foundation, company's management follows the policy of development, engineering services, production and improvement of customer services.

## WHAT DOES TPK "STELLA" OFFER TO OUR PARTNERS AROUND THE WORLD?

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LTD commercial and industrial company «Stella» provides the design and [manufacturing of the process equipment a turnkey basis](#), considering the specifics of a particular country and market requirements.

Depending on customer requirements «Stella» is ready to carry out the supply and take over any part of the work related to the design and implementation of an industrial facility.

Because of market specifics knowledge, experience and professionalism «Stella» can offer to partners worldwide only [individually-designed solutions](#), characterized by minimum capital and operating costs, as well as taking into account all the features of the sold product.





# AREAS OF ACTIVITY

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## EPC

Designing, detailed engineering and supply of all the range of required main and auxiliary technological equipment, installation supervision and commissioning, personnel training and post-warranty maintenance.



## Manufacturing and design of the equipment for the oil and gas complex

Steel storage tanks, pressure vessels for the oil and gas industry, separation equipment, column, heat exchanger, modular integration of process equipment.

## Examination and diagnostic of existing equipment and plants

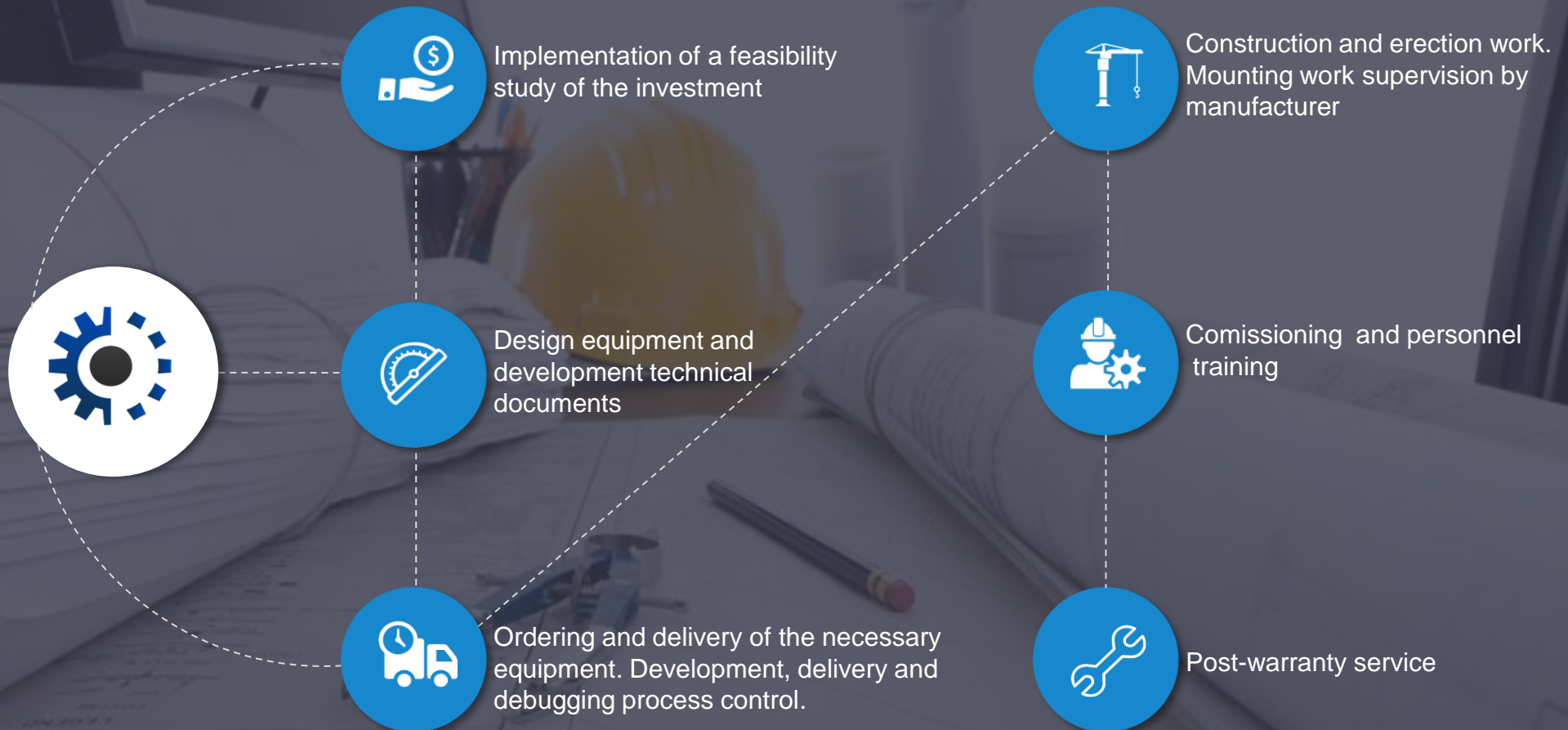
Modernization of existing production facilities to increase its efficiency.

## Services

We offer high-quality services that allow to decrease the risks of emergency situation appearance, extending the equipment operation time and maintaining initial technical characteristics.

# EPC

## Engineering Procurement Construction



Depending on customer requirements CIC «Stella» is ready to perform EPC contract and take on any of the work related to the design and implementation of an industrial facility.

**FROM IDEA TO  
PRODUCTION START-UP !**

# OUR TECHNOLOGICAL SOLUTIONS

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- Adsorption dehydration
- Glycol Dehydration
- Low-temperature separation
- Low-temperature absorption
- Gas-fractionation plant
- Production and sulfur granulation
- Methanol production
- Fischer–Tropsch process
- Diesel fuel hydrotreating, kerosene and gasoline fractions
- Isomerization
- Viscosity breaking
- Processing and utilization of associated gas
- Oil absorption
- NTS with an external refrigeration cycle
- Preparation to associated gas transportati



OIL SOLUTIONS



GAS SOLUTIONS



WATER SOLUTIONS

# EQUIPMENT



## STEEL STORAGE TANKS

Capacity: 1 - 20 000 m<sup>3</sup>

Material: carbon, corrosion-resistant, titanium, special steels and alloys

Working pressure: up to 0,07 MPa

Operating temperature: from -60 C

Production time: from 28 days

This Steel Storage Tank product selection includes a wide variety of products ranging from rainwater collection systems to steel fuel storage. All tanks are constructed from durable steel materials, providing you with reliable underground or above ground liquid storage.

Steel tanks have been used to store potable water, rainwater, waste water, chemicals, lube oil, petroleum, diesel fuel, chlorine and more.

### We produce the following types of steel storage tanks:

- Horizontal tanks
- Vertical steel tanks (Fixed-roof tanks, External floating roof tanks, Internal floating roof tanks)
- Mixing Vessel
- Fire Protection Tanks
- Above Ground Storage Tanks
- Underground Storage Tanks
- Double Walled / single-wall

If you are in need of a storage tank, contact us and let us come up with a effective solution for you.



+ 98-938-821-55-96



+7(495) 726-68-47



# EQUIPMENT

## PRESSURE VESSELS



Capacity: 1 - 400 m<sup>3</sup>  
Material: carbon, corrosion-resistant, titanium, special steels and alloys  
Working pressure: up to 16 MPa  
Operating temperature: from -60 C  
Production time: from 35 days

CIC Stella manufactures separation and column equipment and electrical dehydrators designed for usage in the process units on gas, oil, oil chemical and oil refining facilities.

### We produce the following types of pressure vessels:

- Gaz Separator and Oil gas separators
- Three phase separator and two phase separator
- Vertical, horizontal electric dehydrators
- Tray Column and Packed Column
- Rectifiers (atmospheric columns, vacuum columns, catalytic cracking, hydro cracking fractionators)
- Strippers (diesel fraction strippers; gas oil fraction strippers)
- Absorbers
- Gas fractionators (deethanizers, depropanizers, debutanizers)

If you are in need of a pressure vessels, contact us and let us come up with a effective solution for you.



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# EQUIPMENT



Diameter : up to 2800 mm  
Material: carbon, low-alloy, austenitic, duplex steels as well as from titanium and brass  
Working pressure: up to 6,3 MPa  
Working temperature: -70 ...+350 °C  
Production time: from 35 days

CIC «Stella» manufactures heat exchangers designed for heating, condensation and evaporation of media.

Our heat exchangers are designed for high thermal efficiency and are built to last. We offer you total process and mechanical design to meet your most demanding requirements.

## We produce the following types of heat exchangers :

- Shell and tube heat exchangers
- Fixed tube-sheet exchanger
- Floating-head exchanger
- U-Tube Heat Exchanger
- Double pipe heat exchangers
- Single flow non demountable
- Single flow demountable
- Multiflow
- Air Cooled Heat Exchangers

If you are in need of a heat exchangers, contact us and let us come up with a effective solution for you.



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# EQUIPMENT

## MODULAR INTEGRATION OF PROCESS EQUIPMENT



**We produce the following types of block-complete equipment:**

- Crude oil and water treatment system
- Crude oil dehydration and desalting system
- Test separators
- Separator and filter blocks
- Heater-Treater
- Facilities for treating, processing and utilizing natural and associated gas
- Vapor recovery unit
- Pump blocks

### Benefits

- ✓ High automation level
- ✓ Block-modular design version
- ✓ Maximum operational compatibility

If you are in need of a block-complete equipment, contact us and let us come up with a effective solution for you.



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# SERVICES

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*We offer high-quality services that allow to decrease the risks of emergency situation appearance, extending the equipment operation time and maintaining initial technical characteristics*



Diagnostics and estimation of equipment state



Scheduled preventive (current) repair, replacement of separate units, parts and systems



Manufacturing, supply and installation of elements of modernization and repair



Localization, diagnostics and elimination of emergency situations



Modernization of the equipment , innovation , development of a new design documentation

## PRODUCTION FACILITIES CIC «STELLA»



CIC «Stella» has technical resources that allow to manufacture equipment of carbon, low-alloy and corrosion resistant steels with capacity from 1 m<sup>3</sup> to 20 000 m<sup>3</sup>, operating under the pressure up to 20 MPa, without pressure and under the vacuum with residual pressure no more than 685 MPa and wall temperature no more than minus 70 C.

The welding is carried out according to technological welding processes certified by National Agency for Testing and Welding and by the personnel qualified in the welding production field.





# CUSTOMER REVIEWS



CIC«Stella» has proved itself as an honest and reliable supplier during working with us. We express you gratitude and look forward to a long and mutually advantageous cooperation.»

**M. Yu. Beshpalov**

**The head of Yugorskneftegazstroy, LLC procurement department**



«By the present letter we confirm that CIC «Stella» has successfully carried out the supply of LHCG tank (gas holder) to the address of Legkie Metallicheskie Konstruktsii, LLC. Received equipment conforms to high quality standards. The supply was carried out just in time according to the supply contract.

During our cooperation we have made sure that Stella TPK is a reliable partner that meets its obligations qualitatively and in time. We would also like to note the high-quality informational support that is provided by Stella Company to our enterprise for all the range of produced equipment.

All aforesaid allows recommending Stella, TPK as a reliable equipment supplier.

We express gratitude for the cooperation. We are ready to work in such common projects in future.»

**D. V. Sharov**

**The head of Legkie Metallicheskie Konstruktsii, LLC**

A welder wearing a protective mask and gear is working on a large industrial pipe. Bright sparks are being emitted from the welding point. The image is overlaid with a semi-transparent blue band across the middle.

## COMPLETED PROJECTS



# EG – 160 electric dehydrator

## For «CNPC – Aktobemunaygas»



Characteristics		Value
Working pressure, no more than (kgf/cm <sup>2</sup> )		0,3 (3,0)
Design pressure, MPa (kgf/cm <sup>2</sup> )		0,6 (6,0)
Working temperature, °C		От 0 до +50
Design temperature of wall, °C		70
Minimum allowable negative temperature of wall, °C		- 40
Name of working medium		Hydrocarbon gas, oil, stratal water 2%
Characteristics of working medium	Hazard class per GOST 12.1.007-76	3
	Explosion hazard Category per GOST 30852.5-2002 Group per GOST 30852.11-2002	II A T3
	Fire hazard	Yes
Allowance for corrosion (erosion) compensation, mm		3
Capacity, m3		162,7
Weight, kg		47650
Vessel design life, years (at corrosion rate of 0.3 mm/year)		10





# EG – 160 electric dehydrator For «CNPC – Aktobemunaygas»



## THE FOLLOWING WAS IMPLEMENTED

- ✓ Designing
- ✓ Production and supply
- ✓ Installation supervision and commissioning

EG – 160 electric dehydrator is intended for deep dehydration and desalting of oil.  
Mounted on Zhonazholsky refinery.

CNPC – Aktobemunaygas

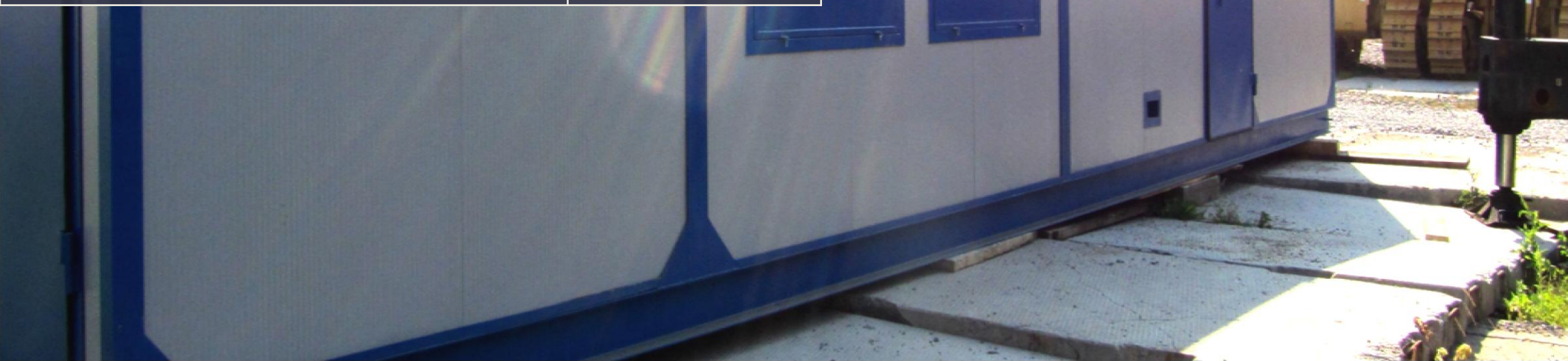




# Petroleum, oil and lubricants (POL) warehouse for «Gazprom»



Characteristics		Value
Operating supply voltage		380 V
Supply voltage rated frequency		50 Hz
Power (Installed)		116,6 kW
Inlet design current		192,7 A
Power coefficient		0,92
Maximum voltage loss		2,8 %
External overall dimensions	length	12000 mm
	width	3200 mm
	transportation height	3100 mm
Mass, without oil-products, no more than		10 000 kg





## THE FOLLOWING WAS IMPLEMENTED

- ✓ Designing
- ✓ Production and supply
- ✓ Installation supervision and commissioning

The modular building decision is implemented on the basis of the following functional components:

- 1 Modular building bulk
- 2 Technological equipment kit
- 3 Electric equipment kit for the modular building auxiliaries
- 4 Fire alarm system
- 5 Venting and heating system

Public Joint Stock Company «Gazprom»



# ADVANTAGES OF COOPERATION WITH «STELLA»



## ARRANGED LOGISTICS SYSTEM

Because of it we are able to supply the equipment worldwide just in time by the most effective transportation mode.



## UNIQUE PROCESS DESIGN SOLUTIONS

We offer the development of unique process design solutions to increase your equipment efficiency.



## OWN PLANNING AND DESIGN OFFICE

Stella planning and design office develops individual decisions for you regardless of equipment complexity



## REDUCTION OF CUSTOMER RISKS AND COSTS

Committing the project management to Stella you obtain all-round control of each work stage by the group of professionals from different fields. We guarantee high degree of safety from basic project risks.

## FUNDING INVOLVMENT POSSIBILITY

## CONTRACT AND PRODUCTS INSURANCE

## FLEXIBLE PAYMENT SYSTEM

## CONTRACT COOPERATIVE IMPLEMENTATION



Accurate observance of supply dates. We utilize Just in time logistics concept

Building and developing of long-term partnerships with Customers

Liabilities to our customers and partners

Honesty and sincerity to our partners

Transparency of actions and legality of each transaction

Readiness to solve complex tasks





# CONTACT

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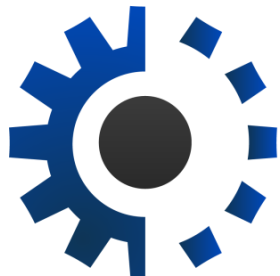
**The representative of the Islamic Republic of Iran**



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