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KALININGRAD PRODUCTION AND LOGISTICS COMPLEX

KALININGRAD, 2024

PRODUCTION AND LOGISTICS COMPLEX

The oilseeds processing complex has been built on the cutting edge technologies and is **one of the most modern in Russia and Europe** both in respect of its production facilities and in the scope and scale of its tasks, the major of which is developing of new export corridors for produced proteins and oils, as well as grain and oilseeds from Russia and neighboring countries to all over the world by creating modern transport and logistics infrastructure.



PRODUCTION AND LOGISTICS COMPLEX INCLUDES:

PRODUCTION COMPLEX

3 crushing plants

Total throughput is 2,800,000 tons of soybeans per year.

2 soy protein concentrate (SPC) production plants

Total output of SPC is 180,000 tons per year.

2 Lecithin Production Facilities

Total output is 9,400 tons per year.

Vegetable Oil Refining Plant

Total output is 130,000 tons per year.

White Flake and Flour Milling Production Facility

Total output is 66,000 tons of white flake per year.

MARINE TERMINAL

Potential throughput:

- up to 9,600,000 tons of dry-bulk cargos per year;
- up to 3,400,000 tons of liquid-bulk cargos per year.

RAILWAY COMPLEX

Consists of 35 railway tracks (dead-end tracks, internal tracks, and transfer station tracks) with total length of over 26 km.

Potential cargo turnover of the Railway Terminal:

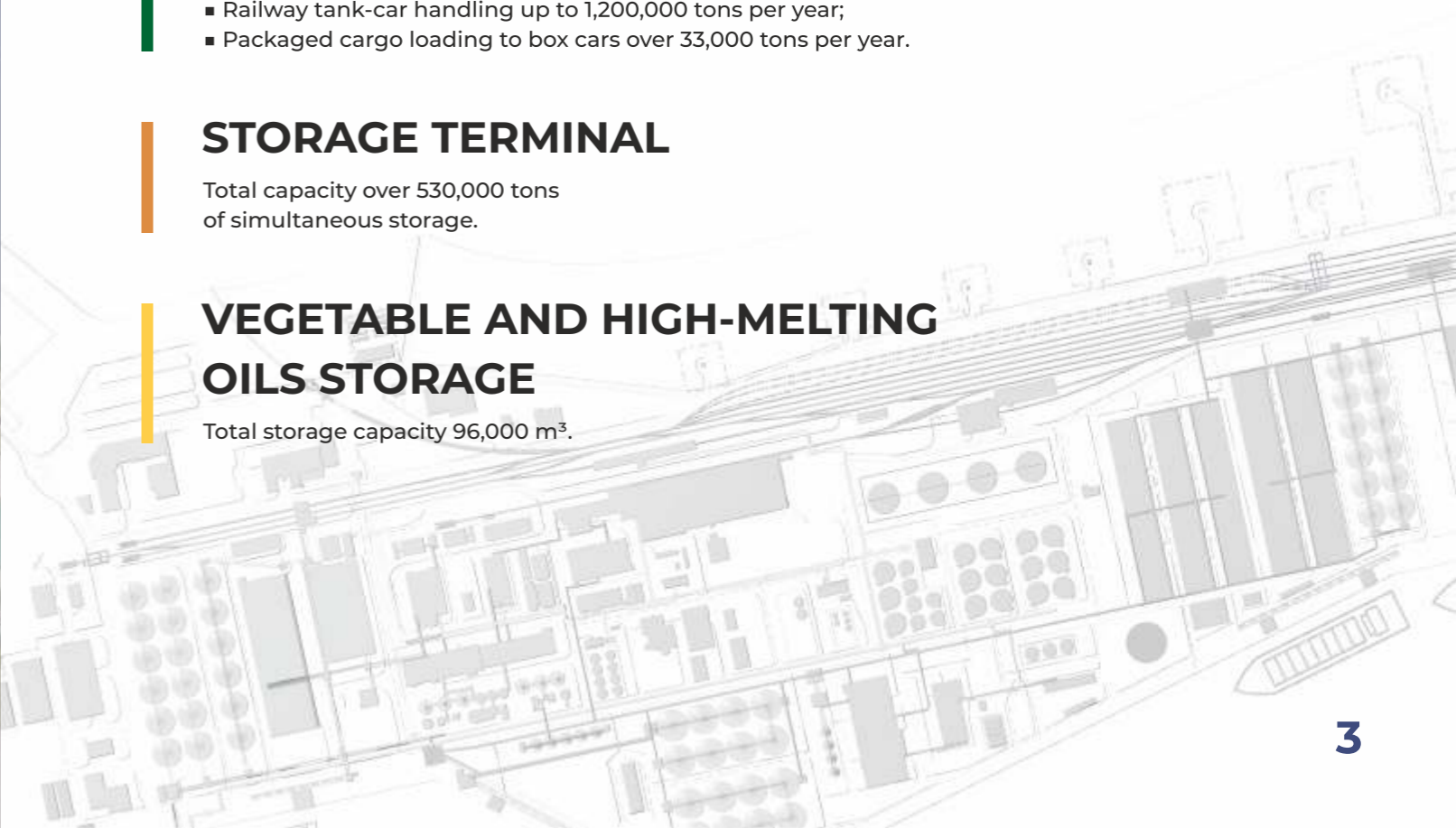
- Dry-bulk cargo loading to grain hoppers up to 4,300,000 tons per year;
- Dry bulk cargo unloading from railcars up to 3,000,000 tons per year;
- Railway tank-car handling up to 1,200,000 tons per year;
- Packaged cargo loading to box cars over 33,000 tons per year.

STORAGE TERMINAL

Total capacity over 530,000 tons of simultaneous storage.

VEGETABLE AND HIGH-MELTING OILS STORAGE

Total storage capacity 96,000 m³.



PRODUCTION COMPLEX

The production complex processes up to 8,500 tons of soybeans, rapeseeds, canola, and linseeds per day. The Complex comprises:

Crushing Plant 1

Processing capacity:

- toasted soy meal production line - **1,500 tons** of soybeans per day
- food-grade white flake production line - **300 tons** of soybeans per day

Crushing Plant 2

Processing capacity:

- **1,200 tons** of rape/canola seeds per day

Crushing Plant 3

Processing capacity:

- **5,000 tons** of soybeans per day or
- **3,750 tons** of rapeseed per day

Soybean Protein Concentrate Plant 1

Processing capacity:

- **200 tons** of white flake per day

Soybean Protein Concentrate Plant 2

Processing capacity:

- **510 tons** of white flake per day

Vegetable Oil Refining Plant

- capacity up to **400 tons** per day

Oil Degumming & Lecithin Section

Production capacity:

- **6 tons** of rapeseed lecithin per day

Lecithin Section

Production capacity:

- **over 16 tons** of soybean lecithin per day

Food-Grade White Flake Production Facility

White flake is produced from non-gm soybeans.

The plant can process:

- **300 tons** of soybeans per day



PRODUCTION (TONS PER YEAR):

	SOYBEANS	RAPESEED
FEED-GRADE MEAL	1,650,000	192,500
FOOD-GRADE MEAL	66,000	-
OIL	568,500	140,000
HULLS	110,000	-
LECITHIN	2,400	-
CONCENTRATE	180,000	-
MOLASSES	60,350	-



PRODUCT QUALITY AND SAFETY

Product quality and safety is one of priorities of **Sodrugestvo Group**.



ALL INCOMING RAW MATERIALS ARE CHECKED FOR QUALITY AND SAFETY INDICATORS

All the raw materials received by the company go through quality and safety checks. We ensure that quality is maintained of our trade and transit goods of third parties, and quality and safety of finished products in the course of production, storage and supply. We share and track flows of products with various names and trademarks, in particular in terms of **GM/non-GM**.



COMPANY-OWNED TESTING LABORATORY

Incoming control of raw materials and supplied goods, control over technological processes and finished products in terms of their quality and safety are ensured by internal structural subdivisions. Our main partner in the area of laboratory testing in Russia and the CIS is an independent testing laboratory **New Lab** located in the territory of our production and logistics complex in the Kaliningrad Region. Besides, our modern complex in the Russian Federation accommodates permanent control points of governmental authorities that perform control and supervision over turnover of crops, oilseeds, and products of their processing.



EXPRESS QUALITY ANALYSIS TECHNOLOGY

All imported and released products subject to conformity declaration, certification or state registration go through the corresponding procedures.



DECLARATION OF CONFORMITY, CERTIFICATION, STATE REGISTRATION

Feed and food safety management system is based on principles of **HASSP** and meets **ISO9001, FSSC 22000, FAMI-QS, Europe Soya, FoodChain ID Non-GMO, ProTerra, Kosher, Halal** standards, which is verified by Certificates of Conformity issued by Russian and international certifying authorities.

Our manufacturing, trading, and logistic divisions are regularly inspected by such customers as **BUNGE, MARS, WRIGLEY, BIOMAR, SKRETTING, Barry Callebaut, Nestlé, Cargill, ROYAL CANIN, BIC**.



SUSTAINABILITY

Sustainable development is one of top priorities of Sodrugestvo Group and one of key elements in day-to-day operations.

CERTIFICATION AND TRACEABILITY

Enterprises of the production and logistics complex are certified to the modern international management systems standards most requested by the customers of our products.

At the enterprises of Sodrugestvo Group decisions are made every day with due regard to the impact on the world around us.

Enterprises of Sodrugestvo Group are a part of the global sustainable supply chains.

Enterprises of Sodrugestvo Group have implemented quality and safety management systems that are certified in accordance with international standards.

Certified social, environmental management, occupational health and safety management systems:



Certified sustainable supply chains:

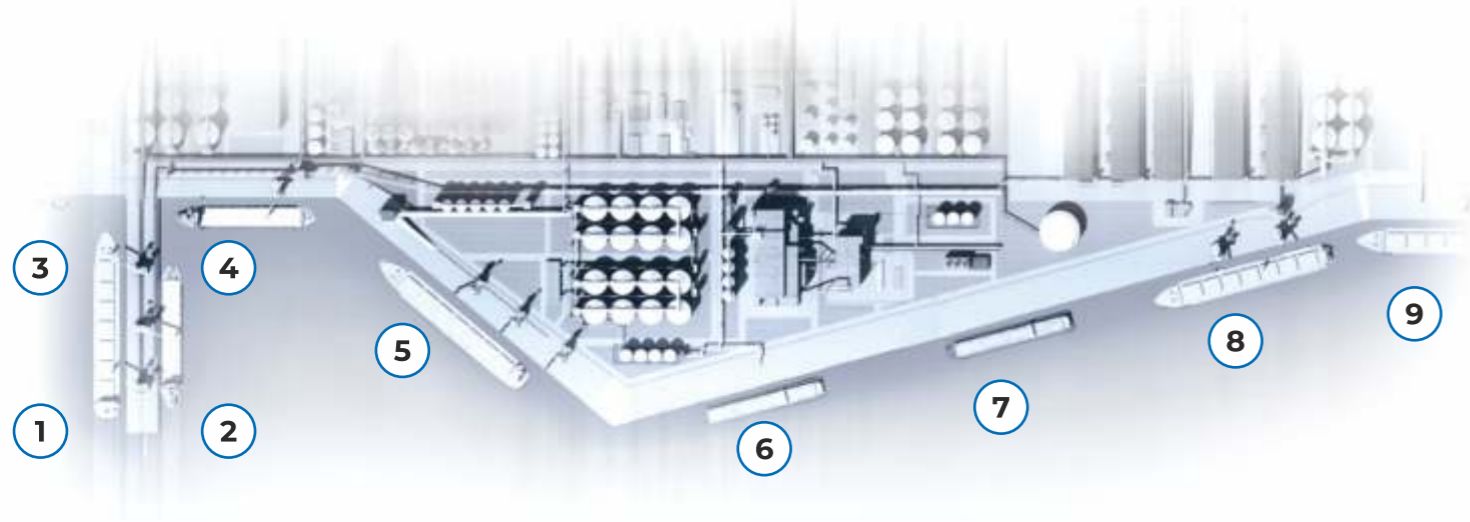


Certified feed and food quality and safety systems:



MARINE TERMINAL

The ice-free marine terminal works 24 hours a day all year round and is located on reclaimed land along the Kaliningrad ship canal and has the following parameters:



Berth 8 is equipped with:

2 NEUERO SL600 Ship loaders for dry-bulk cargos with a capacity of 600 tons per hour each.

Berth 9 is equipped with:

Tukan 1500-45 Portal crane with loading capacity up to 63 tons and boom extension up to 45 m, additionally fitted with 15 m³ and 25 m³ grippers for dry bulk cargos and a spreader for 20- and 40-foot containers.

The double-sided pier (berths 1 and 2) is equipped with:

- 2 pneumatic unloading cranes for dry bulk cargo (grain, beans) type Multiport M300, with a capacity of 300 tons per hour each;
- 1 pneumatic crane for discharge of hard-running cargo (gluten, oilseeds meals) type Flexiport F250 with a capacity of 250 tons per hour for hard-running cargo and 300 tons per hour for grain (beans).

All machines are designed to handle vessels of up to 25,000 tons DW.

Berth 4 is equipped with:

1 ship loader/unloader for hard-running cargo type Combiport 250/200 with loading capacity of 250 tons per hour and unloading capacity of 200 tons per hour.

Berth 5 is equipped with:

2 pneumatic ship unloaders for discharge of dry bulk cargo (grain, beans) type Multiport M600 with a capacity of 600 tons per hour each.



2,073 m

total berth length

1,198 m

5 front berths
(depth 10.5 m)

520 m

double-sided quay pier
(2x260 m, 10.5 m deep)

355 m

2 front berths
(Berth 4 is 6.6 m deep,
Berth 3 – 5.8 m deep)

UNLOADING AND LOADING CAPACITY OF THE TERMINAL (TONS PER DAY):

25,000

unloading of soybeans and grains
(in bulk) using pneumatic transport

6,000

unloading dry bulk cargos
using a grab

15,500

railcar handling capacity,
275 units (apart from MT)

3,800

loading/unloading of meals
and corn gluten

16,800

loading/unloading
of vegetable oils (in bulk)

20,000

loading of grains
(in bulk)

Three modern ice-class tugboats provide safe and high-quality towage, escorting, firefighting and mooring services at the port.

RAILWAY COMPLEX

Total length of railway tracks is over 26 km, including:

- 26 internal tracks with total length of appr. 15 km;
- 9 dead-end sidings of the railway transfer station with total length of over 6 km;
- The approach railway line from the Production Complex to the Shipovka station of the Kaliningrad Railways is over 5 km long.

The total capacity of internal railway tracks and dead end sidings of the railway transfer station is the following:

- Technical capacity – 800 railcars;
- Productive capacity – 600 railcars.

Dead end sidings and internal railway tracks are equipped with 8 electronic scales with load-carrying capacity of up to 100 tons. There is a mobile eco-bunker for unloading of bulk cargo.

Railway complex has its own railcars maintenance and clearing facility for tanks, grain-carriers and boxcars. The facility can prepare and wash up to 40 railcars per day and clean up to 200 railcars per day.

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POINTS OF SIMULTANEOUS LOADING

2 Vegetable oil filling points –
for simultaneous filling of 7 tank cars
with capacity up to 3,350 tons per day.

**3 Loading points
with ramps for box cars –**
for simultaneous loading of 10 railcars
with capacity up to 780 tons per day.

1 Loading point –
for loading Soy Protein Concentrate
to grain hoppers with capacity 150 tons per day.

2 Soybean meal loading points –
for simultaneous loading
of 6 grain hoppers
with capacity up to 9,300 tons per day.

1 Loading point –
for other dry-bulk cargos – for 2 railcars.



4 Company-owned Shunting locomotives.

IN LOADING/UNLOADING AREAS, RAILCARS ARE RELOCATED USING DIFFERENT TYPES OF SHUNTING WINCHES:

in loading areas 6 winches of LEM-15E5 type
are used capable of relocating up to 60 railcars,
and 2 winches of LEM-10 type capable
of relocating up to 16 railcars

UNLOADING

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2 Vegetable oil drain points –
for simultaneous draining of 13 tank cars
with capacity of 3,350 tons per day.

**3 Unloading points
with ramps for box cars –**
for simultaneous unloading
of 10 railcars with capacity
of up to 780 tons per day.

**2 Unloading points
for grain bulk cargos –**
for simultaneous unloading
of 5 railcars with capacity of up to 8,000 tons.

1 Unloading point –
for other dry bulk cargos – for 1 railcar.



STORAGE TERMINAL

The main function of the storage terminal is **to receive the incoming flow of various agricultural products** (grains, oilseeds, meals, cakes, pelletized hulls, beet pulp and other products) and other bulk cargoes.



Grains & Beans Storage

Storage capacity:
317,000 tons of soybeans or
368,000 tons of wheat

- 46 silos;
- automatic system for tempering of silos;
- 5 silos for pelletized hull storage with a capacity of 6,000 tons.

The facilities can accept soybeans from the vessels at the rate of 1,800 tons per hour.



9 automated warehouses for floor storage of own produced meal and bulk cargoes in transit with a capacity of up to 134,000 tons.

2 flat storage warehouses for packed bulk products with a capacity of 5,600 m².

Packing section with a capacity of 250 tons per day.

2 bunker warehouses for storing soybean meal and soy protein concentrate with a total capacity of 20,000 m³.

The facility is capable of accepting oilseeds and grains up to 136 trucks per day (3,000 tons per day).



368,000 tons

oilseeds and grains storage

134,000 tons

9 automated warehouses for floor storage



250 tons per day

packing section

5,600 m²

2 flat storage warehouses

20,000 m³

2 bunker warehouses



VEGETABLE AND HIGH-MELTING OILS STORAGE

Vegetable Oils Storage is Russia's first facility capable of storage and transshipment of tropical high-melting vegetable oils (palm, palm-kernel, coconut oils) from marine vessels to railcars and trucks, as well as acceptance of vegetable oils from railway tanks and loading to marine vessels.



96,000 m³
Total storage capacity

24,000 m³
High-melting oils storage capacity

72,000 m³
Vegetable oils storage capacity



The storage section designated for high-melting oils is equipped with devices for heating and maintaining the storage temperatures to enable the product pumping.





COMPLEX UTILITIES

■ HIGH-VOLTAGE SUBSTATION

■ LOCAL TREATMENT FACILITIES

■ BOILER HOUSES

■ STORMWATER TREATMENT FACILITIES

■ WATER INTAKE

6 Compressor stations with combined capacity of 9,000 m³/hr of compressed air and **2 Nitrogen and compressed-air units** with combined capacity of 400 m³/hr of gaseous nitrogen.

- The total length of compressed air and nitrogen pipelines exceeds 12 km.

110/15 kV High-voltage substation with total power output of 2x25 MVA*

- 110 kV High-voltage aerial power lines 1,200 m long;
- 3 Distribution substations 15 kV;
- 28 Transformer substations 15/0.4 kV;
- The length of 15 kV cable lines is about 20 km.

* comparable to the energy consumption of a 50,000 inh. city.

4 Boiler-houses with combined output of 226 tons of steam per hour**

- the length of heat pipelines is over 10 km;
- 36 heat supply units.

** comparable to the heat supply of 220 apartment buildings of 100 apartments each.

Local treatment facilities with capacity of 1,009 m³ per day

Storm-water treatment facilities with capacity of 155 l/sec.

Water intake facility with capacity up to 1,807 m³ per day, and 3,000 m³ per day (water from Svetly town)

- 13 artesian wells 90 to 140 m deep;
- Water purification plant;
- Reserve water tanks with the volume of 10,200 m³.

