



QAZAQASTYQGROUP

INTRODUCTION OF THE BREWERY IN SEMEY (KAZAKHSTAN)



The Brewery is located in **Semey City** (East Kazakhstan), 100 km from the Russian border and 700 km from the Chinese border.

The Brewery is one of the production facilities found in the complex for the production of alcoholic beverages, which covers an area of 8.2 hectares (the total area of the complex is 58 hectares).





The complex has its own wells of excellent pure water quality, its own steam shop, an electrical substation with a capacity of 20 MW and the biological wastewater treatment plant.

The equipment of the Brewery was supplied by famous manufactures “TechnoExport”, “Ziemann”, “KNS”, “Holvrieka”, “Krones”. The Brewery was designed by UkrGiproPischeProm (Kiyev, Ukraine) under the supervision of the Company Jerella.

The Brewery was started its production in 2001.

Potential capacity of the Brewery is 24 000 000 daL per year. The configuration of the Brewery was set up in such way that it allows dividing the production line in two sections with the capacity of 12 000 000 daL each.

The Brewery consist of:

- Main building;
- Building for cylinder-conical tanks (CCT);
- Beer bottling department with the storage for packing and finished goods.

The brewery includes the following departments:

- 01. Department for receival and storage of raw materials
- 02. Crushing department
- 03. Cooking department
- 04. Yeast department
- 05. Department for storage of disposal yeast
- 06. Fermentation department
- 07. Beer filtration department and department for bright beer tanks
- 08. Cleaning in Place department (CIP1)
- 09. Cleaning in Place department (CIP2)
- 10. Alkaline department
- 11. Carbon dioxide compressor department
- 12. Beer bottling department
- 13. Concentrated alkali collector
- 14. Chemical laboratory
- 15. Refrigeration compressor unit
- 16. Mechanical workshop

Total land area of the Brewery is **8.2** Ha (private property).
Total production area and facilities - **27 030,5** m2.



Automated bottling system

- 3 lines of bottling machines with a capacity for 30 000 bottles per hour, with a total capacity for 90 000 bottles per hour (Made in Czech Republic by Krones).
- 1 line for kegs with a capacity for 60 kegs per hour.

The Brewery has its own railway complete with an operational locomotive for the delivery of raw materials.

Pure water requirement – 840 000 m³ per year is supplied by pipeline from our own private wells “Borovlyanka”, which is located 8 km away from the Brewery in a nearby forest.

Steam requirement – 14.8 tons per hour is produced by our own steam shop, with a capacity for 4 boilers x 100 tons per hour of steam.

Main waste product - brewing waste (wet) in a volume of 24 000 tons per year can be used as animal feed with high protein.



Silo granary of the Brewery:

- The main silo granary (seed vault) with a railway can store 7 000 tons of seed (grist).
- The daily storage for production needs can keep 1 344 tons of seed (grist).

Crushing of seed (grist) and preparation for brew:

- Potential capacity of crushing equipment – 5 tons per hour (2 crushing machines). Cooking, cleaning of mechanical impurity and preparation for fermentation.
- Potential capacity of cooking equipment – 5 tons per hour. Cylinder-conical tanks (CCT): 4 CCT – volume 100 m³ each; 31 CCT – volume 500 m³ each.

Storage for finished goods can keep **4.5 million** bottles.

Seed (grist) crushing machine:

- Pickup bucket = 18.5 m³
- Screw conveyor -50 tons per hour
- Seed (grist) silo for daily production needs – 320 m³

Brewing department:

- Cooking pot – 58 m³ and 35 m³
- Filtration pot – 91 m³
- Centrifugal pump – 190 m³

Beer cooling wort:

- Turbulent pot – 56 m³;
- Pump for hopped beer wort – 60 m³

Yeast department:

- Fermentation tank CCT 100 – 100 m³





Beer wort fermentation department and secondary fermentation of beer:

- CCT 100 – 100 m³
- CCT 500 – 500 m³

Beer filtration department and department for bright beer tanks:

- Kieselguhr filter 260-250 hlph
- Buffer vessel – 10.6 m³ and 5.4 m³
- Dispensing tank – 137 m³

Kegging department:

- Washing machine for the keg's interior and exterior surface – 60 kegs per hour
- Conveyor – 60 kegs per hour

Bottling department:

- Bottle washing machine – 32 000 bottles per hour
- Bottle conveyor – 30 000 bottles per hour
- Bottle packing machine – 30 bottles per hour



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