



УЛЬБА-ЭЛЕКТРО

производственно-коммерческая фирма

PKF ULBA-ELECTRO LTD.



**Construction of Multifunctional Industrial Complex for manufacturing
mining, energy industry, industrial and civil engineering products in Ust-
Kamenogorsk, East Kazakhstan region**

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General Information

The Multifunctional Industrial Complex (MIC) will provide products for construction and power industry. Investment Project is planned for **4 steps**.

Major manufacturing productions:

- Metal structures and prefabricated beams;
- Rubber lined pipes;
- Sandwich panels;
- Roll forming metals;
- Electrical equipment;
- Industrial valves and fittings and pumping equipment;

MIC can ensure high quality products and reasonable prices due to using robotic systems in automated production.

The analog of manufacturing products may be the product importing to Kazakhstan from abroad for mining and oil industry.

Description of the Project

Project is to be implemented in East Kazakhstan region, Ust-Kamenogorsk at «ORKEN KSHT» industrial zone. Investment Project is planned for 4 steps.

1 step:

- Workshop construction for automated production of mineral wool core and polyurethane sandwich panels. Panels thickness - up to 150 mm. Production volume - up to 75,000 m² per year.
- Workshop Construction for rubber lined pipes production (annual volume - up to 10,000 t).

2 step:

- Robotic warehouse construction for metal structures, heavy equipment details and spares production. Production volume – 20,000 t per year.
- Workshop construction for non-standard prefabricated beams. Production volume – 10,000 t per year.

3 step:

- Construction of a high-tech industrial complex for electrical equipment production.

4 step:

- Construction of a workshop for pumping equipment, industrial valves and fittings production.

ANTICIPATED INVESTMENT - \$ 27,5 million

Sources of funding: private investment – 50%, bank loans – 50%

1 step = \$ 4,27 million

2 step = \$ 11, 36 million

3 step = \$ 8,11 million

4 step = \$ 3,75 million

Planned annual turnover – **\$ 45 million**

Social Benefits of the Project

Creating employment and decent work

- Production and administrative units – up to 1 000 employees

Using high-tech robotic system in automated production

- Development of metal processing industry. Industrialization 4.0.

Developing unique capacity for students' practical training and competency

Requirements for the Project realization

- **Serviced land availability:** 35 ha;
- **Utility networks availability:** electricity, communication and water supply, sewerage and heating systems.
- **Convenient access road and driveways:** traffic of road transport vehicles and trains
- **Investment preferences** (on example of free economic zones)



1. VAT on the good introduced within FEZ
2. Corporate income taxes
3. Property taxes
4. Land taxes
5. Exemption from customs duty

5. Estimated data (Calculation)

Estimated heating energy consumption at Administration and amenity building

- $Q_{\text{omax}} = 1,163 * a * V * q_o * (20 + 39) = 1,163 * 0,9 * 24000 * 59 * 0,32 = 0,48 \text{ MW}$
- $Q_{\text{vmax}} = 1,163 * a * V * q_v * (20 + 39) = 1,163 * 0,9 * 24000 * 59 * 0,18 = 0,27 \text{ MW}$
where:
- $q_o = 0,32 \text{ kcal}/(\text{m}^3 * \text{h} * ^\circ\text{C})$
- $q_v = 0,18 \text{ kcal}/(\text{m}^3 * \text{h} * ^\circ\text{C})$
- $a = 0,9$

Total energy consumption for heating and ventilation at Administration and amenity building

- $Q_{o \text{ v}} = 0,75 \text{ MW} = 0,65 \text{ gcal/h}$

Estimated data (Calculation)

Estimated heating energy consumption at Industrial buildings

- $Q_{\text{max}} = 1,163 * \alpha * V * q_o * (18 + 39) = 1,163 * 0,9 * 1000000 * 57 * 0,5 = 2,98 \text{ MW}$
- $Q_{\text{vmax}} = 1,163 * \alpha * V * q_v * (18 + 39) = 1,163 * 0,9 * 1000000 * 59 * 0,15 = 0,27 \text{ MW}$
where:
 - $q_o = 0,5 \text{ kcal}/(\text{m}^3 * \text{h} * ^\circ\text{C})$
 - $q_v = 0,15 \text{ kcal}/(\text{m}^3 * \text{h} * ^\circ\text{C})$
 - $\alpha = 0,9$

Total energy consumption for heating and ventilation at Industrial buildings

- $Q_{o \text{ v}} = 3,88 \text{ MW} = 3,3 \text{ gcal/h}$
-

Total estimated energy consumption:

- Electricity – **3 MW**
- Heating system – **4 gcal/h**
- Cold water supply – **30 m³/day**
- Hot water supply – **20 m³/day**
- Sewage system – **50 m³/day**



Target market

The main market and focus of the business is industrial construction projects in the mining and energy sector, as well as civil and commercial real estate property.

Among our potential customers, there are the following companies from the fuel and energy complex and extractive industries:

Gold mining company JSC AK Altynalmas

Kazakhaltyn Technology LLP

SSGPO JSP

KAZZINC JSC

Eurasian Energy Corporation JSC

Russian Copper Company Holding LTD

PJSC Polyus Zoloto

Polymetal JSC

Seligdar OJSP

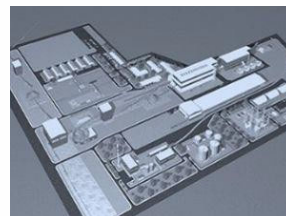
KAZ MINERALS PLCS

Implemented projects



Jolymbet, Aksu, Bestobe

In 2015 – 2016 conducted sampling from solid tailings for Gold Recovery Plant of Kazakhaltyn MMC JSC, developed a mining technology with high recovery rates and Definitive Feasibility Study.



Jairem ore dressing industrial complex 2015 – 2017

Developing Definitive Feasibility Study, designing of Concentration plant project (5 million tonnes of production) and other facilities.



Gjamgyr 2018 - 2019

Fulfilled the whole complex of works for Gold Recovery Plant (0.3 million tonnes of production under EPC-contract).



Pustynnoe I 2013 - 2014

Developing Definitive Feasibility Study, EPC contract for Gold Recovery Plant construction (2 million tonnes of production) and other facilities.



Pustynnoe II 2017 - 2018

Renovation of Gold Recovery Plant up to 2,5 million tonnes of production, fulfilment of the whole complex of works for Gold Recovery Plant under EPC-contract.



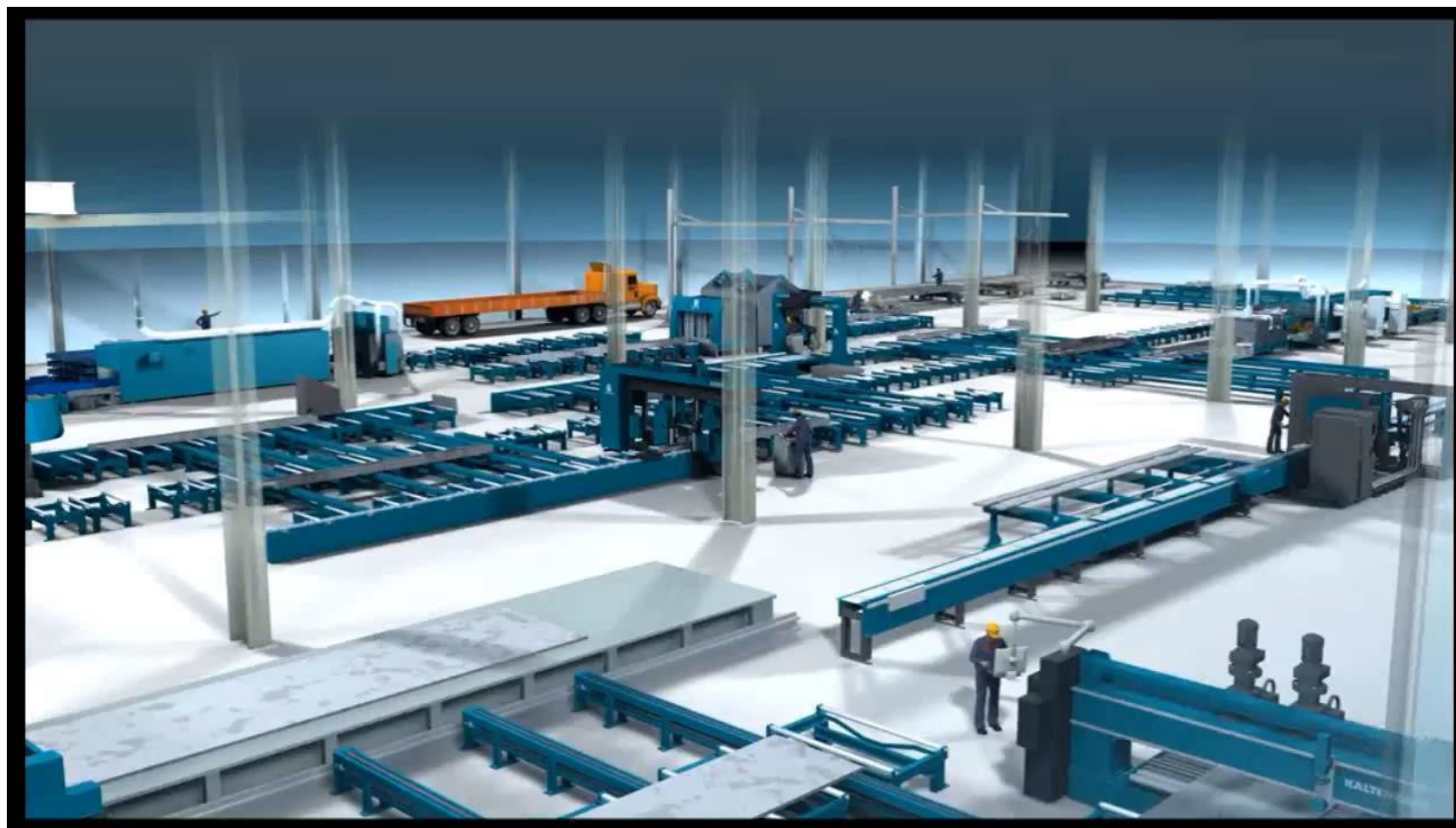
Akbakay 2010 - 2012

Developing Definitive Feasibility Study, EPC contract for Gold Recovery Plant construction (1.5 million tonnes of production) and other facilities.



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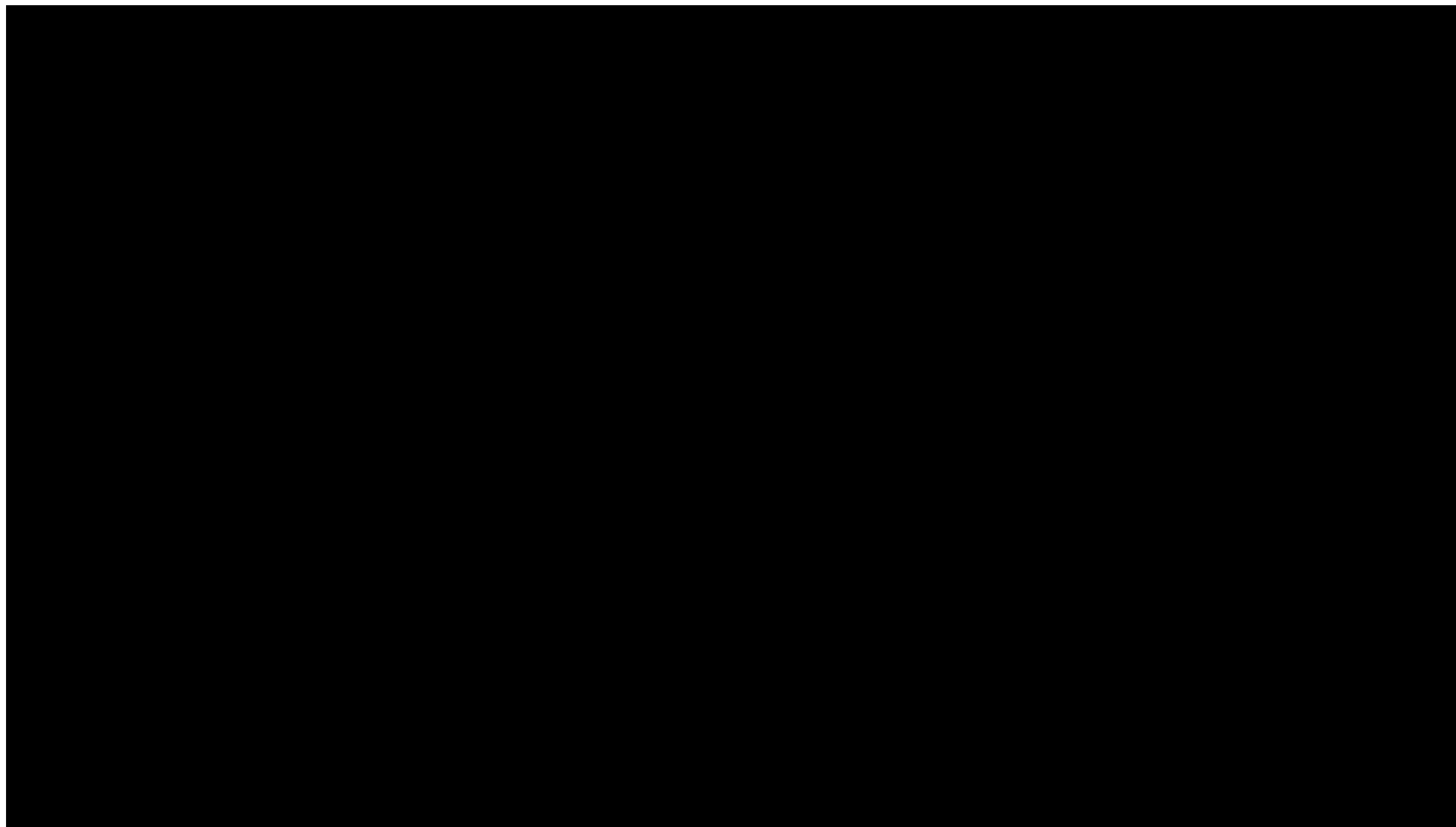
KALTENBACH – Metal structures production





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ZEMAN – robotic production of prefabricated beams H 400 - 2000 mm





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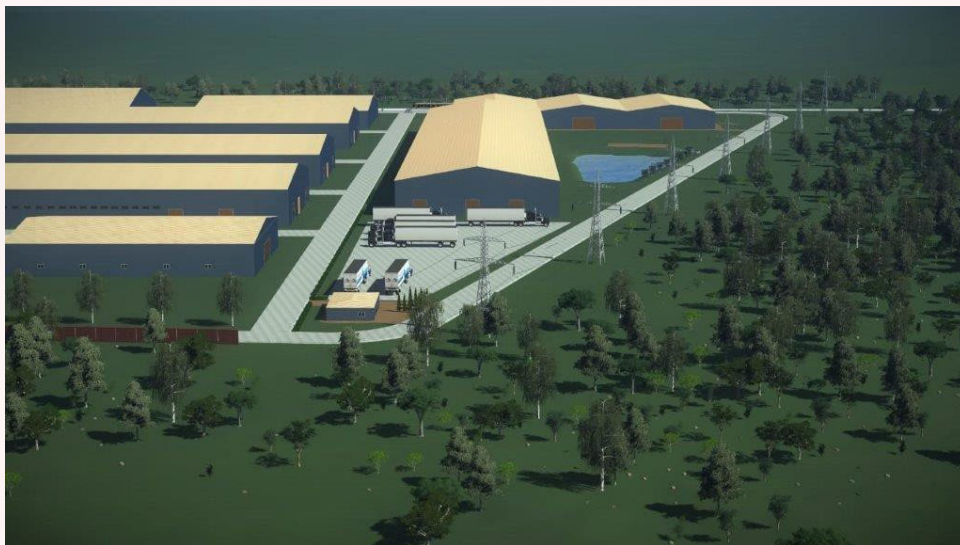
«BUDIMPEKS F» - sandwich panels production

**Производство трехслойных
сэндвич-панелей на
Богословском заводе
модульных конструкций**

General view of the Project



Graphics



Graphics

