



# Silicon Mining LLP

## Object description

<b>Organizational form and start date of operation</b>	Silicon Mining Limited Liability Partnership Date of initial state registration: December 22, 2008
<b>BIN</b>	081240012710
<b>Legal address / Actual address</b>	49/6, Bukhar Zhyrau avenue, Kazybek Bi district, Kazybek Bi r.a., Karaganda city. Karaganda Region
<b>Industry</b>	Metallurgy: vein quartz
<b>Asset owner/(owners) and their shares</b>	JSC NMC Tau-Ken Samruk (100%)
<b>Activity description</b>	The Company specializes in the extraction of vein quartz at the Aktas field in Karaganda region, to provide raw materials for the plant for production of metallic silicon in Karaganda
<b>Production capacity</b>	Quartz ore mining 100 thousand tons per year; The output of finished products is about 55 thousand tons per year
<b>Staff number</b>	During the conservation period - 4 persons During the period of operation - 14 persons

## Reasons for conservation, conditions for launch

Production volume (ton), Price for industrial silicon (USD/t)



**Tau-Ken Temir and Silicon Mining are a vertically integrated business** in which Silicon Mining is a supplier of vein quartz, and Tau-Ken Temir is a plant for the production of metallurgical silicon

**In 2019, the Company decided to preserve production due to:**

- significant drop in prices in 2019 for technical silicon caused by significant decrease in demand from the main consumers

### Silicon Mining reserves as of January 2022

Mineral resources	Unit of measure	B	C1	B+C1	C2
Crystal raw materials	ton	-	791	791	396
Piezooptical quartz	kg/mbl	-	1 457	1 457	582
Rhinestone	ton	-	424	424	98
<b>Vein quartz</b>	<b>thousand tons</b>	<b>1 169</b>	<b>2 527</b>	<b>3 696</b>	<b>304</b>

Source: Company data, CRU silicon price forecast in the EU (February 2022)

**At the moment, favorable conditions have developed for the launch of the project into operation:**

- continuous price growth since April 2020 due to constant growth in demand and production costs

## Investment attractiveness

Factors of advantage when starting a project:

- Silicon Mining is the holder of the contract of subsoil use of the Aktau deposit No. 2810 of October 09, 2008 with a validity period of 25 years. The total reserves of the quartz deposit are about 4 million tons, with an average SiO<sub>2</sub> content of 99.5%
- The Company has a significant advantage in key cost elements, for example, electricity costs are about USD0.03 (KZT13.8) per kWh

**The realization of 100% of the Company's share together with Tau-Ken Temir LLP (metallurgical silicon production) to a strategic partner for the launch of the project is being considered**