



**OCHIR MANDAL  
KHAIRKHAN LLC**

MINERALS TO METALS

Business Introduction 2022



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# BRIEF INTRODUCTION

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- ❖ Founded: 2019
- ❖ Founder: Batbayar Bataa
- ❖ Director: Batbayar Bataa
- ❖ Industry: Mining, exploration, commodity trading
- ❖ Main Company: Ochir mandal khairkhan
- ❖ Headquarters: Ulaanbaatar, Mongolia
- ❖ Products: CaF<sub>2</sub> Fluorite 40% - CaF<sub>2</sub> 97%
- ❖ Subsidiary: Kherlen energo LLC
- ❖ Number of Employees: 200
- ❖ Number of Mining licenses: 4
- ❖ Number of Exploration licenses: 3

# COMPANY INTRODUCTION

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❖ “ Kherlen Energo ” LLC is metallurgical grade fluorite exploration company, located in southeastern Mongolia. Our company has been actively operating in mining industry since 2000 with strong exploration team.

❖ Currently, we operate on underground and open pit mining in 3 different provinces of Mongolia

❖ We are engaged in supplying and exporting to Ukraine, Russia, Korea and China covering around 95% of it is portfolio including CaF-2 content ore and fluorite.

Since 2019 we have established fluorite plant located in Ulziit soum, Dundgobi province.

## **Company mission**

❖ HONESTY AND HARD WORK – To ensure brighter future for the next generation.

# PROJECTS

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- ❖ We own 5 mining licenses located in southeastern region
- ❖ 1 exploration licenses located at southern part of Mongolia
- ❖ 4 of our mining licenses are located in Dundgobi Province and 1 located at Khentii Province
- ❖ Our resource estimate varies around 500,000 Metric Tons
- ❖ With strong exploration team, we are positive to acquire more mining licenses in the coming years.

# FLUORITE ORE PROCESSING PLANT

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- ❖ Established in – 2019
- ❖ Number of employees – 150
- ❖ Number of machinery – 30
- ❖ Annual outcome – 50000 tons
- ❖ Exported country – China and Russia





# OUR MINING LICENSES



# OUR MINING LICENSES





# GEOGRAPHICAL LOCATION OF OUR MINES



# OUR ANNUAL OUTCOME

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- ❖ CaF<sub>2</sub> 85%-92% – 5000 tons
- ❖ CaF<sub>2</sub> 65%-75% - 30000 tons
- ❖ CaF<sub>2</sub> 65% and below – 40000 tons
- ❖ Our fluorite plant produces – 50000 tons of CaF<sub>2</sub> 95-97%



# FLUORITE SAMPLE CONTENTS

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**CaF<sub>2</sub> 92%**



**CaF<sub>2</sub> 85%**



**CaF<sub>2</sub> 75%**



# FLUORITE APPLICATIONS

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- ❖ ACID GRADE CaF<sub>2</sub> 97% - Mostly consumed in chemical industry
- ❖ CERAMIC GRADE CaF<sub>2</sub> 85%-95% – Applied in specialty glass, ceramics, enamelware, non stick cooking surface as Teflon.
- ❖ METALLURGICAL GRADE 60%-85% - Applied in steel plants to produce reinforcement rebars, and rods for variety of construction and infrastructure purpose. Also, can be applied at optical lenses production.
- ❖ LOW GRADE CaF<sub>2</sub> 30%-60% - applied at fluorite plants for impurification purpose to produce high grade CaF 97% content.



# LAB REPORT - HIGH GRADE



## SGS IMME Mongolia LLC

Uildveriin toirog 101 toot  
Bayangol Duureg, Ulaanbaatar  
20 th khoroo  
Ulaanbaatar 36, Mongolia

*Lab Ref* UB073371  
*Client Ref* **227679**  
*Project* GEOCHEM  
*Reported* 23/09/19  
*Status* Final  
*Page* Page 2 of 4

## ANALYTICAL REPORT

Scheme	WGH79	SCR34	SCR34	CLA07C	CLA07C	CLA07C
Units	KG	%	%	%	%	%
Detection Limit	0.01	0.01	0.01	10	0.01	0.01
Upper Limit	100	100	100	99	100	100
	WtKg	-3.35mm	-75um	CaF2	CaCO3	SiO2
<b>Kherlen Energo Sample#049</b>	13.08	93.55	97.56	95.8	0.70	2.34

# DOMESTIC LAB REPORT



**ХАНЛАБ ХХК**  
Улаанбаатар хот, Хан-Уул дүүрэг, 11 р хороо, Богд Жавзандамба  
гудамж 34/6 тоот, Хан Рашаан компанийн байр  
Утас: 70109968, 99995316  
<http://www.khanlab.mn>



## ИТГЭМЖЛЭГДСЭН ЛАБОРАТОРИЙН ШИНЖИЛГЭЭНИЙ ДҮН

ЗАХИАЛГА №: 2017/486

ЗАХИАЛАГЧИЙН НЭР: ХЭРЛЭН ЭНЕРГЕО ХХК

ДЭЭЖИЙН ТӨРӨЛ, ТОО: Хайлуур жонш, 1

№	ЛАБОРАТОРИЙН ДУГААР	ДЭЭЖИЙН ДУГААР	ДЭЭЖИЙН ТОДОРХОЙЛОЛТ	ЭЛЕМЕНТ, %				
				CaF <sub>2</sub>	CaCO <sub>3</sub>	SiO <sub>2</sub>	P	S <sub>нийт</sub>
1	Л-3966	23	Хайлуур жонш	97.21	1.00	1.70	<0.05	<0.05

Лабораторийн эрхлэгч

С.Туул, PhD

Сорилтын үр дүн зөвхөн тухайн дээжинд хамаарна.  
Дээжлэлтийн талаарх асуудлыг манай лаборатори хариуцахгүй болно.

# LAB REPORT - LOW GRADE



**SGS IMME Mongolia LLC**

Uildveriin toirog 101 тоот  
Bayangol Duureg, Ulaanbaatar  
20 th khoroo  
Ulaanbaatar 36, Mongolia

*Lab Ref* UB072669  
*Client Ref* **225677**  
*Project* GEOCHEM  
*Reported* 12/08/19  
*Status* Final  
*Page* Page 2 of 4

## ANALYTICAL REPORT

<b>Scheme</b>	WGH79	SCR34	SCR34	CLA07C	CLA07C	CLA07C
<b>Units</b>	KG	%	%	%	%	%
<b>Detection Limit</b>	0.01	0.01	0.01	10	0.01	0.01
<b>Upper Limit</b>	100	100	100	99	100	100
	WtKg	-3.35mm	-75um	CaF2	CaCO3	SiO2
1	4.76	--	--	65.8	0.75	32.50
2	3.47	--	--	66.8	0.75	26.53

# LOGISTICS AND TRANSPORTATION

- ❖ In order to Export we follow the railway routes, to the north and south border.
- ❖ FOB AND EXW is usually preferred.
- ❖ Our mines are located 100-300 kilometer distant from the “Choir” railway ore loading station.





# PACKAGING AND LOADING

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# Our Team

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- Finance: 5
- Engineers : 30
- Operators : 50
- Geologists : 5
- Safety Officer : 4
- Management team : 20
- HR: 5
- Chef : 3
- Driver: 10
- Lab workers: 10
- Other: 50





# Thank you.

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