OCHIR MANDAL KHAIRKHAN LLC MINERALS TO METALS **Business Introduction 2022**



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BRIEF INTRODUCTION

- ❖ Founded: 2019
- ❖ Founder: Batbayar Bataa
- ❖ Director: Batbayar Bataa
- ❖Industry: Mining, exploration, commodity trading
- ❖ Main Company: Ochir mandal khairkhan
- Headquarters: Ulaanbaatar, Mongolia
- Products: CaF2 Fluorite 40% CaF2 97%
- ❖Subsidiary: Kherlen energo LLC
- ❖ Number of Employees: 200
- ❖Number of Mining licenses: 4
- ❖ Number of Exploration licenses: 3

COMPANY INTRODUCTION

- * "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

- ❖ 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

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



OUR MINING LICENSES





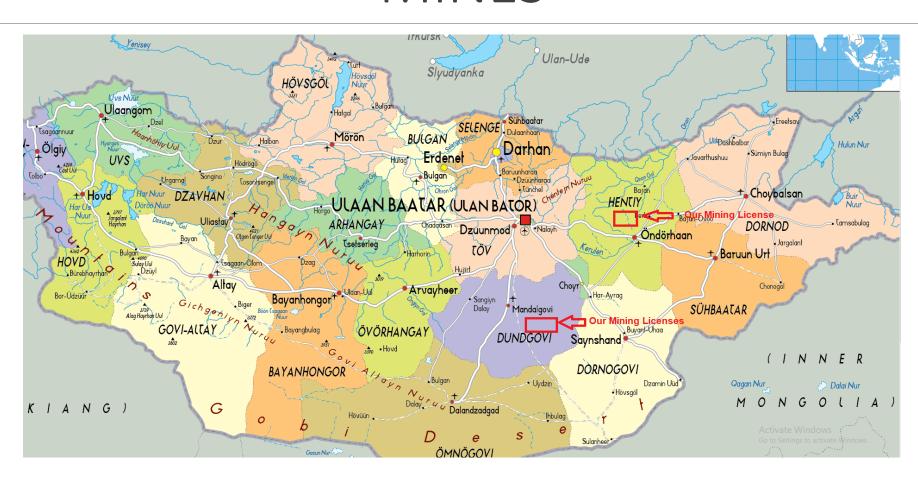
OUR MINING LICENSES







GEOGRAPHICAL LOCATION OF OUR MINES



OUR ANNUAL OUTCOME

- **♦** CaF2 85%-92% − 5000 tons
- **♦** CaF2 65%-75% 30000 tons
- **♦** CaF2 65% and below 40000 tons
- ❖Our fluorite plant produces 50000 tons of CaF2 95-97%

FLUORITE SAMPLE CONTENTS

CaF2 92% CaF2 85% CaF2 75%







FLUORITE APPLICATIONS

- ❖ACID GRADE CaF2 97% Mostly consumed in chemical industry
- ❖ CERAMIC GRADE CaF2 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 CaF2 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

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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 |
| Kherlen Energo Sample#049 | 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 тодорхойлолт | ЭЛЕМЕНТ, % | | | | |
|---|------------------------|----|-------------------------|------------------|-------------------|------------------|-------|-------------------|
| | | | | CaF ₂ | CaCO ₃ | SiO ₂ | Р | S _{нийт} |
| 1 | Л-3966 | 23 | Хайлуур жонш | 97.21 | 1.00 | 1.70 | <0.05 | <0.05 |

Лабораторийн эрхлэгч

C. 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 toot Bayangol Duureg, Ulaanbaatar 20 th khoroo Ulaanbaatar 36, Mongolia

 Lab Ref
 UB072669

 Client Ref
 225677

 Project
 GEOCHEM

 Reported
 12/08/19

 Status
 Final

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ANALYTICAL REPORT

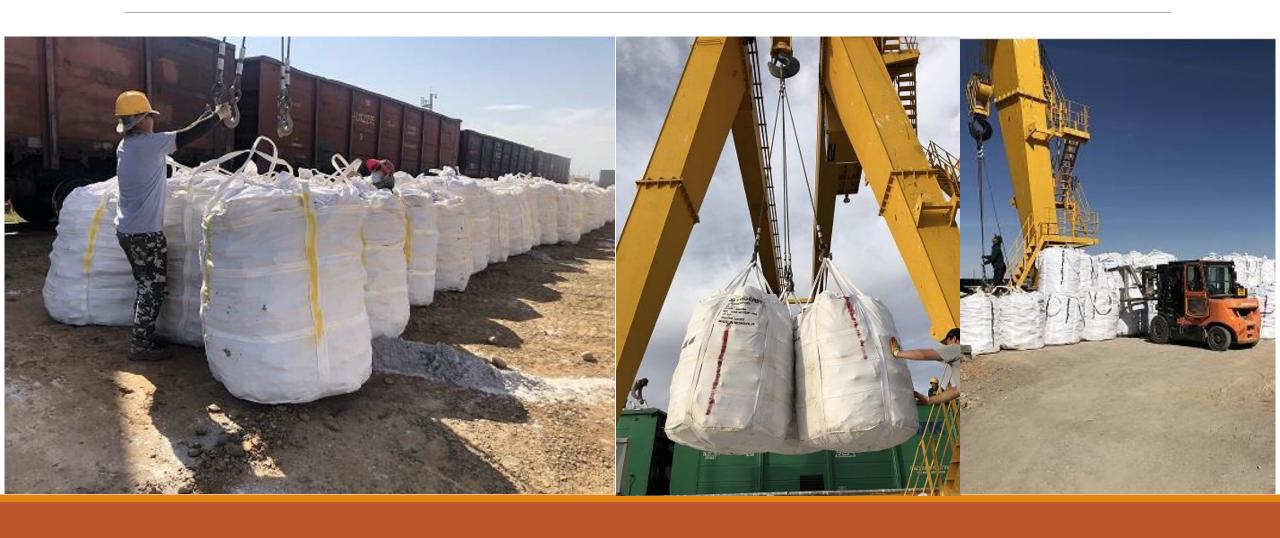
| Scheme | WGH79 | SCR34 | SCR34 | CLA07C | CLA07C | CLA07C |
|-----------------|-------------|----------------|--------------|-------------------|--------------|-------------|
| Units | KG | % | % | % | % | % |
| Detection Limit | 0.01 | 0.01 | 0.01 | 10 | 0.01 | 0.01 |
| Upper Limit | 100 WtKg | 100 -3.35mm | 100 -75um | 99 CaF2 | 100 CaCO3 | 100 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



Our Team

■ 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.



Address: Sukhbaatar District, Saruul Centre suite #209

Ulaanbaatar, Mongolia 14240-0030 Phone (work): +976-75554443

Mobile: +976-88000012

Email: Ochirmandalkhairkhan.com

Whatsapp, Viber, Wechat ID: +97688000012