



عرض تقديمي بشأن مقترح استثماري قيرغيزستان

المحترمين

السادة منتسبي غرفة مكة المكرمة

السلام عليكم ورحمة الله وبركاته

تهديكم غرفة مكة المكرمة للتجارة أطيب التحية والتقدير،

تلقت غرفة مكة المكرمة خطاب اتحاد الغرف السعودية رقم (44505379) وتاريخ 25 / 11 / 1445 هـ، والمشار فيه الى برقية وزارة الخارجية رقم (33527-45-001) وتاريخ 16 / 11 / 1445هـ بشأن مذكرة سفارة جمهورية قيرغيزستان لدى المملكة والمرفق طها عرض تقديمي بشأن المقترح الاستثماري " تطوير المعادن النادرة على أساس مخلفات (Ak-Tuz) ومنجم (Kutessay-II) بجمهورية قيرغيزستان.

وتقبلوا فائق التقدير،

الأمين العام

Makkahchamber المملكة العربية السعودية 21955 المرمةة المكرمة 1086 من Kingdom of Saudi Arabia P.O.Box: 1086 Makkah 21955

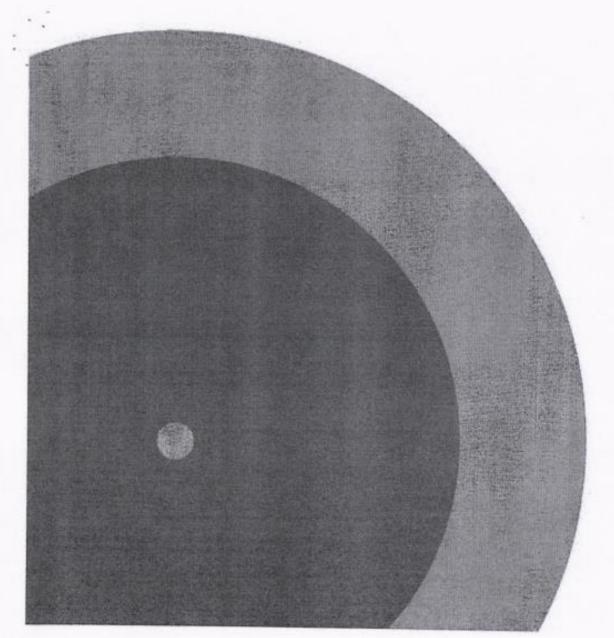


Ministry of Natural Resources, Ecology and Technical Supervision of the Kyrgyz Republic Kyrgyz Geological Survey



Investment proposal for the development of rare earth metals on the basis of the Ak-Tyuz tailing dumps and the Kutessai-II deposit







In the Kyrgyz Republic

Rare earth me

Rare earth metals (REM) are a group of 16 elements.

REM is widely used in various technological industries, such as the production of high-power magnets, catalysts, lasers, nuclear power, fiber optics, electronics and other high-tech sectors.

Due to their strategic importance for various industries, the extraction and processing of rare earth metals is a significant industrial activity.

Reserves of the Kutessai II deposit

Kutessai II is located on the territory of the Keminsky district of the Chui region. It is orographically located on slope of the Tasa-Keminsky ridge, which is the watershed of the Maly and Bolshoy Kemin rivers. Geographical of the deposit: 760,070,270 sq.s. and 420,510,320 sq. d.

By category A+B+C1

Ore

16,763,000 tons

- ✓ ΣTR₂O₃ 44 300 tons
- ✓ Content

2,642,72 g/ton

Off-balance sheet

Ore

16,409,000 tons

- ΣTR₂O₃ 11 800 tons
- ✓ Content

719,1 g/ton

By category C₂

Ore

3,465,000 tons

- ✓ ΣTR₂O₃ 7 200 tons
- ✓ Content

2 077,9 g/ton

ΣA+B+

Ore

20,228

- ✓ ΣTR₂O₅
- ✓ Conten

2 545,

Conten

Data on tailings dumps

As a result of the production activities of JSC KHMZ (1942-1995), 5 tailings dumps were formed. Four tailings dumps are located in the area of Ak-Tyuz settlement, the fifthThe Boordun tailing dump is located 3.8 km south of the city of Orlovka.

Audit work for economic is carried out at 4 tailings



The weighted average particle size is 0.138 mm, the average density is 1.60 g/cm³

Total volumes for tailingsdumps No. 1, 2, 3 –3.1 million tons

Volumes of the Buurdinsky tailings dump5.1 million tons



Buurdinskoye tailing volume is 3.2 million. million tons



Tailing dump No. 1Th 370.6 thousand. m3 : thousand tons



Tailing dump No. 2vc thousand. m3 = 800 tons



Tailing dump No. 3Th 1050 thousand. m3 = thousand tons

Technical and economic calculation

Nº	Name	Amount in US\$ (Per year)	
1	Mining and technical costs.	6,500,000	
2	Mining and processing costs. Operational and depreciation expenses.	17,500,000	
3	Chemical and metallurgical plant. Operational and depreciation expenses.	13,666,000	
	Total:	37,666,000	
	Profit before tax.	418,000,000	
	Net profit.	380,334,000	
	Production capacity.	1 million tons	3

Economic indicators

Mining costs:

Nº In an open way		Unc	lerground way	Total of US\$ (Over 18 years)	Annua	
1	48,000,000	某	65,000,000	48,000,000 + 65,000,000 = 113,000,000	113/18 years =	
	To	otal:		113,000,000	6,5	

Mining and processing costs:

Annua	Total of US\$ (Over 18 years)	Operating costs (over 18 years)	Capital expenditures	Nō
270/18 years	45,000,000 + 270,000,000 = 315,000,000	270,000,000	45,000,000	1
17,5	315,000,000		Total:	

Chemical and Metallurgical plant:

Nº	Капитальные затраты	Operating costs (over 18 years)	Total of US\$ (Over 18 years)	Annua	
1	30,000,000	216,000,000	30,000,000 + 216,000,000 = 246,000,000	246/18 years	
	Total:		246,000,000	13,€	
I Table	All:		674,000,000	37,6	

Total costs





Miningand technical costs:

48 million

65 million



Equal to: 113 million -mining.

113/18 years =\$ 6.5 million/year

Mining and processingcosts:

45 million - Capital expenditures

15 million - Operating costs

15 million × 18 years = 270 million \$

270 million \$ + 45 million \$ = 315 million \$/over18 years

315 /18 years = \$17,500 million/year

Chemical and Met

30 million - Capital €

12 million - Operatir

12 million × 18 years

\$ 216 million + \$ 30 million/over18 years

246 /18 years = \$ 13

Cost price

Recycling

Processing – 1,000,000 million tons \times 2,545.97 g/t $\Sigma TR203$ – 2,545.97 tons of iron in ore/ear of extracti 1,900 tons/year of metal

Concentrate yield - 5% total: 50,000 tons of concentrate per year

The content in the concentrate is $\Sigma TR203 - 38$ 189.55 g/ton = 3.8% of the concentrate



For the extraction of 1 million tons of ore = \$ 6.7 million

Depreciation funds (annual) - \$4.1 million/year

Operating costs - \$ 27 million/year

Total: 1 ton of concentrate = \$ 757.32 (cost) = 34,370.5 grams = \$ 22.03 per kilogram of metal

Ongoing work at the Buurdinsky tailings dump

Geological tasks

- 1. Carrying out search and evaluation work on the entire area of work.
- Carrying out a complex of exploration works for polymetals, in order to calculate reserves and allocate an area for industrial development.
- Conducting technological studies of tailings and determining the possibility of obtaining commercial concentrates from them using modern equipment and the latest enrichment methods.

The tasks are solved by the following types of work:

Generalization and analysis of geological materials;

- Conducting search and filming operations;
- Core drilling and sampling;
- Geophysical and technological research;
- Topo-surveying service of mining operations
- Construction and restoration of access road
- Analytical research and reporting.

Nō	Types of work	Unit of	
1	Core drilling of wells	P.M. (square)	
2	Topographic and geophysical work on the surface	ha	
3	Spectral analysis	probe	
4	Assay for gold and silver	probe	
5	Chemical analysis for Pb, Zn, Au, Ag, Cu, In, TR, etc.	probe	
5	Laboratory technological research	probe	
7	Hydrogeochemical studies	probe	
8	Preparation of the report	squad/day .	

Reserves of the Kutessai II deposit

As of 01.01.1992, in the author's figures in the following amount (Protocol No. 445 of October 31, 1995.)

		Balance sheets	PUBLIC AND	- I SUPALITY ALL	Off-balance s
Counting elements	Inventory category			Inventory cate	
* *	В	C ₁	C ₂	В	C ₁
1	2	3	4	5	6
	To	tal for the field with	hout balance sheet		0
Ore reserves, thousand tons	15147,4	1797,5	3464,7		
The amount of TR ₂ O ₃ , t	40950,5	3892,8	7250,3		-
Lead. t	19500	700	1400		-
Molybdenum, t	1984,3	117,6	327,8		-
Bismuth, t	-	2185,1	The state of the s	-	-
Zinc, t		16500	104,5	-	-
Silver, t		52,95	0.10	-	-
	Inclu		8,19	-	-
Ore reserves, thousand tons	10885,0	ding: 1. In the outlin 830,1	e of a project care		
The amount of TR ₂ O ₃ , t	32355,6		-	2001,5	241,5
Свинец, т	13800	1971,1	-	3928,4	460,4
Molybdenum, t	1546,9	200	-	1640	100
Bismuth, t	1340,3	45,4	-	201,9	7,4
Zinc, t	-	1757,3	-	-	307,8
Silver, t	-	-		-	11900
January C	201: 14	38,07	-	-	7,3
Ore reserves, thousand tons	2.Behind the co	entour of a project of	areer without a bal	ance sheet	
	2260,9	725,9	3464,7		
The amount of TR ₂ O ₃ , t	4666,5	1461,3	7250,3		
Свинец, т	4100	400	1400		
Molybdenum, t	235.5	64,8	327,8		
Bismuth, t	-	120,1	104,5		
Zinc, t	-	4600	-		
Silver, t	-	7,58	8,19		

Thanks for your attention