

nickel smelter in Tanzania

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1. Introduction to Coast Nickel Industry Limited

Coast Nickel Industry Limited was registered in Kibaha District, Pwani in April 2023. Its local purpose is to utilize the rich nickel mineral resources in Tanzania to produce smelting processing into nickel alloy entity factory.

2. Project background.

We found that Tanzania is rich in nickel ore resources, but it has been unable to be effectively used due to the content of the ore itself and its transportation. We focus on economic benefits, analyze market prices, production costs, sales revenue and return on investment, and draw the conclusion that the construction of smelters has significant economic advantages. The project will bring rich returns and strategic value to investors, while creating jobs and tax revenue for Tanzania. This business plan provides highly promising investment projects for investors, and the construction of a nickel smelter in Tanzania will bring returns and strategic value.

Based on the above reasons, we believe that the investment in building smelters here is a very good company

Good opportunities are very important and necessary to us. This is also in line with the government's industrialization strategy.

3. Market analysis

Tanzania is rich in nickel resources, especially in nickel mining. The country has only a handful of nickel deposits that are abundant in the world.

Nickel mineral resources, with high purity, high density, high conductivity and other characteristics, are widely used in battery, aerospace, electronics and other fields.

At present, the global nickel market demand continues to grow, which provides a good market opportunity for Tanzania. With the continuous development of science and technology, the use of nickel is also expanding, and the demand is increasing year by year. Tanzania, with its rich nickel resources, has the opportunity to become an important global supplier of nickel.

At the same time, due to the relatively low production costs, we believe that building a smelter in Tanzania will have a clear competitive advantage. The country's labor prices are relatively low and its natural resources are abundant, which makes production costs significantly lower.

In addition, the Tanzanian government has also actively promoted the development of the mining industry, providing a favorable policy environment and investment opportunities. To sum up, Tanzania is rich in nickel ore resources, with broad market prospect, low production cost and good policy environment, so the construction of smelters has obvious competitive advantages and good development prospects.

4. Economic benefits

Building smelters in Tanzania is expected to bring significant economic benefits. By increasing the utilization rate of local nickel resources from the export of mineral products to industrial products, the added value of products is increased. And our company has created hundreds of jobs for the local people, thus promoting the local economic development.

In addition, the smelter will generate considerable tax revenue, bringing tangible benefits to the local government and providing important financial support to the government. At the same time, the completion of the ice nickel smelter will also stimulate the development of related industries and further promote the industrialization process of Tanzania. In addition, the construction of the smelter will also promote local technological progress and innovation in Tanzania. As the smelter adopts advanced production technology, this will bring Tanzania to the world advanced level in nickel mining and smelting.

In terms of the environment, the construction of the smelters will reduce the environmental pollution. The plant will adopt an environmentally friendly production process to minimize the impact on the local environment. In addition, the smelter will also establish a strict environmental management system to ensure that the environmental protection measures in the production process are effectively implemented.

In short, the construction of smelters in Tanzania will bring many economic and social benefits. It can not only improve the utilization rate of local resources, create employment opportunities and promote economic development, but also bring considerable tax revenue to the local government, stimulate the development of related industries, promote the process of industrialization, promote technological progress and innovation, while protecting the environment and realizing sustainable development.

5. Budget and financing

The project is expected to invest \$3 million, a net profit of \$700,000 / year, an annual increase of about 5% -8%, an internal rate of return of 26%, and a planned investment payback period of 3 years.

Fixed assets investment table

order number	Investment content	Investment amount (USD 10 million)	remarks
1	Plant site and taxes	50	The purchase was completed
2	equipment	200	
3	Installation works and equipment and civil engineering	40	
4	miscellaneous expenses	10	
	Estimated total investment (US \$ three million)	\$300	

master equipment list

order number	device name	specifications and models	quantity
1	Oxygen-rich side blowing furnace and supporting system equipment	S=3.0m ² S=5.8m ²	2
2	Bag collector for feeding post	PPCS64-4, processing air volume: 20,000 m ³ /h	1
3	Mandatory mixer	The JS 750 model power: 22 Kw	1
4	brick making machine	Nominal pressure: 5000 KN, including control cabinet, delivery board elevator, hydraulic station and brick connecting machine.	1
5	Brick tray	96 / piece of material: Q235	100
6	Batching and feeding system	2 silos, one belt conveyor	1
7	Dust down room	Wall thickness =10mm disposal: Q235 DN2200mm H: 5m	1
8	quench tower	Φ 2500mm H=10.5m	1
9	Activated carbon injection device	Volume: 1.5m ³ with DN150 unloader (variable frequency speed regulation) including an activated carbon feeding device	1

		2T electric hoist	
10	bag-type dust collector	Model: CDMP112-4 Treatment flow: 30000m ³ / h	1
11	System main fan and motor	Y5-51No. 11D 75Kw	1
12	Desulphurization system	(Two-stage desulfurization tower) 2-Φ2.2*13.5m Material: polymer PP thickness: 20mm	1
13	Sout preparation system equipment	See the list of equipment for details	1
14	Wet electric defogging device	WESP-100	1
15	Non-standard flue gas pipeline, support system	DN850mm Liner ZS1042 high temperature due to powder paint anticorrosion	1
16	Table cooling system	Group welding parts	1
17	compressed-air system	DN15-DN80 galvanized pipe including valves, pipes, support frame, etc	1
18	Cooling circulation waterway and process waterway system of each equipment	PVC-U, galvanized pipes, pipes, valves, pipe hoop, supports, etc. (including installation and construction cost)	1
19	Filter pressing system	20m ² ceramic filter press vacuum pump 5.5 Kw, spindle 3 Kw, stirring 4 Kw	1

6. Risk analysis

Although we are very confident about the business prospects of this project, we must admit that there are some risk factors for any project. These risk factors may come from policy changes, market volatility and technical difficulties. Therefore, in order to ensure the smooth implementation of the project, we will adopt a series of effective risk response strategies.

First of all, in view of the risks brought about by the policy changes, we will actively pay attention to the dynamics of the relevant policies and adjust the project strategies in time to ensure that the project always meets the policy requirements. At the same time, we will also strengthen the communication with the government departments to understand the direction of the policy, so as to make countermeasures in advance.

Secondly, in view of the risks brought by market fluctuations, we will carry out in-depth market research and analysis, so as to grasp the market dynamics in time, and timely adjust the project strategy according to the market changes. In addition, we will establish a sound market risk warning mechanism so that we can respond quickly in case of market fluctuations.

Finally, in view of the risks brought by technical problems, we will strengthen technological research and development and innovation, and improve the technical level and innovation ability. At the same time, we will also strengthen the cooperation with universities and scientific research institutions; jointly solve technical problems, to ensure that the technical level of the project is always in the forefront of the industry.

In short, we will adopt a series of effective risk response strategies to ensure the smooth implementation of the project. We believe that with our joint efforts, this project will surely be a success.

7. Human resources are needed.

order number	position	number of people	remarks
1	managing director	1	Chinese
2	chief engineer	1	Chinese
3	administrative staff	2	Chinese
4	assistant	1	Tanzania
5	senior accountant	2	Chinese
6	cashier	2	Chinese
7	engineer	5	The Chinese people (in part)
8	Engineer assistant	5	Tanzania
9	translate	5	Tanzania
10	welder	2	Tanzania
11	driver	4	Tanzania
12	worker	80	Tanzania
13	ensure public security	10	Tanzania
amount to		120	

8. Summary.

To sum up, the construction of smelters in Tanzania has significant market prospects and commercial potential. We believe that by making full use of local resource advantages, technical feasibility and economic benefits, we will give investors persuasive reasons to invest. At the same time, we will also actively deal with the possible risk factors to ensure the smooth implementation of the project. We look forward to working with investors to create new business opportunities and contribute to the economic development of Tanzania

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