

Gold Extraction and Processing Plant Project

by GESMINE-INVEST Ltd (UK) in Tanzania

Gold processing plant investment

Start receiving gold production from our Tanzanian processing plant today !

Business Plan with Tokenization for a Gold Processing Plant in Tanzania

This business plan proposes an innovative investment opportunity in a gold processing plant in Tanzania. The objective is to raise \$1,000,000 USD for the construction of a gold processing plant, comprising a leaching plant and crushing equipment. This processing plant aims to extract 4.5 to 6.5 kilograms of gold per month from the ore-bearing rocks supplied by nearby gold mines.

The facility takes in gold ore, processes it through various stages including crushing, leaching, adsorption, elution, and smelting to produce gold bars. It combines elements of extraction, processing, and some refining, but the core technology and focus is on the vat leaching process for gold extraction.

Current Situation

- The gold processing plant will be strategically located in a well-known goldfield in Tanzania, surrounded by numerous neighboring gold mines. This prime location enables us to receive ore-bearing rocks from a large number of mines for gold extraction.
- Location of the processing plant site: SWT (South West Tanzania). Province: Mbeya. District: Chuna.
- Chunya Administrative District is in the Lupa goldfields, Mbeya region, south west Tanzania, the second largest gold producing region in Tanzania. Tanzania is currently the third largest gold producer in Africa, after South Africa and Ghana.
- Geology of the Project: The regional geology is characterized by deformed, folded, sheared and metamorphosed paleoproterozoic rocks with major fold axes trending east southeast to west northwest.
- GESMINE-INVEST Ltd proposes to offer \$1,000,000 USD worth of shares in a gold processing plant for a term of 16 months, in return for the necessary

investment to build and equip the processing plant. The proposed gold processing plant will use a special method called vat leaching to extract gold from ore. This method involves several steps: crushing the ore, dissolving the gold, collecting the gold on carbon, separating the gold from the carbon, and melting the gold into bars. The purpose of this facility is to process gold ore from nearby mines and create high-quality gold bars for selling to local and international buyers.

Construction Project

- Construction of a gold processing plant to extract and process a great quantity of ore-bearing rocks, with the aim of extracting 4.5 to 6.5 kilograms of gold per month.
- The construction project will include:
 - Design and building of a secure facility
 - Installation of essential gold processing equipment:
 - Crushing equipment:
 - Jaw Crusher (x2)
 - Ball Mill (x2)
 - Extraction equipment:
 - Twelve 3.5-tonne tanks
 - Carbon Columns
 - Barrel (Chemical mixer)
 - Chemical Tank
 - Supporting infrastructure:
 - Piping & Lab
 - Pump & Water Storage
 - Staff Quarters, Facilities & Office

For more information about the construction project's detailed costs and the initial months of operation, please refer to the accompanying annex document: “[Annex-Financial Estimates Summary.pdf](#)”.

The investment will finance the construction and equipping of a gold processing plant, designed to extract and process substantial amounts of ore-bearing rocks. The primary goal is to extract an estimated 4.5 to 6.5 kilograms of gold per month. The construction project will encompass:

1. The design and building of a secure facility to protect the valuable assets and ensure the safety of personnel.
2. The installation of essential gold processing equipment, including:
 - Crushing equipment: Two Jaw Crushers and two Ball Mills to break down the ore.
 - Extraction equipment: Twelve 3.5-tonne tanks, Carbon Columns, a Barrel (Chemical mixer), and a Chemical Tank for the vat leaching process to extract gold from the ore.
3. The development of supporting infrastructure, such as Piping & Lab for process monitoring and control, Pump & Water Storage for efficient water management, and Staff Quarters, Equipment, Facilities & Office to accommodate the workforce and administrative needs.

Tokenization and Fundraising for the Construction Project

- Tokenization of 50% of the gold processing plant's equity will be conducted for a duration of one year and three months. The remaining 50% will be reserved for financing ongoing processing operations, future development projects, and distribution among the plant's owners.
- Sale of 1,000,000,000 cryptocurrency tokens representing these shares (A total of 2,000,000,000 tokens represent the complete ownership of the gold processing plant).
- Initial price per token: From \$0.0009 to \$0.00105.
- Funds will be used for gold processing plant construction, and equipping, as well as covering operational expenses for the first four months.

Advantages of Tokenization

- Increased accessibility for investors
- Enhanced privacy and confidentiality with the option for anonymity.
- Increased transparency through blockchain technology.

Terms of Your Contract with GESMINE-INVEST Ltd and a Third-Party Lawyer

Invest in a gold processing plant managed by our skilled team with over 10 years of experience in London and East Africa (Kenya, Tanzania, Uganda). Benefit from our knowledge and strong connections in the gold mining industry to get the best returns on your investment.

Please find below the proposed investment contract based on the public sale price.

- **2,000,000 tokens = \$2,100 for 0.1% of the gold processing plant shares (1 year and 4 months)**
- **Contract of one year and four months** : You will receive approximately **\$4050** (\$337.5 per month) for 2,000,000 tokens, subject to various factors such as fluctuations in the global market price of gold. (*)
- Fully Protected Investment
- Low Risk
- (*) The dividend payments will only start after we reach the Soft Cap fundraising goal (The production unit purchase and installation take 60 days, followed by 30 days for the first month of operation).
- If, for any reason whatsoever, you wish to leave the project during the contract period, GESMINE-INVEST Ltd will buy back your tokens.

P.S: Amounts to be re-evaluated on the day of the contract signing.

GESMINE-INVEST Ltd, UK Company Registration Number: 14120136.

Gold Profit Sharing via Token Staking

To materialize the benefits of investing in our mining project, we have established a staking system for distributing the produced gold, converted into US dollars or USDT stable coins. Therefore, each token holder will be allocated a cash amount equivalent to the proportion of gold produced relative to the number of tokens they have in staking, for a period of one year starting from the launch of extraction operations.

In this way, investors will be directly involved in the gold extraction operations and will benefit from their contribution to the fundraising.

It is important to note that extraction operations will commence 90 days following the achievement of the Soft Cap fundraising target. This time frame includes the 60 days required mostly for the construction, and equipping of the gold processing plant. An additional 30 days will be needed for the first month of operation.

Once the Soft Cap fundraising goal is achieved, we are confident in our ability to extract and distribute 1.5 to 2.5 kgs of gold to investors. This will be done while we continue working towards reaching the Hard Cap target. Reaching the Hard Cap will allow us to

further expand our operations and increase the potential returns for our investors.

We are confident that a fair and transparent distribution system will strengthen investor confidence and contribute to the success of our mining project.

Find out how much you could earn by using our [profit calculator](#) on the presale website.

Distribution Calculation:

The allocation of the produced gold will be determined by various factors, such as:

- The amount of gold the processing plant produces
- The cost of running the gold processing plant

A smart contract will be implemented to automate the calculation and distribute the equivalent cash amount of produced gold to token holders in a transparent and secure manner. The distribution frequency, such as monthly or quarterly, shall be defined according to investor preferences and the operational characteristics of the processing plant.

Example Distribution:

Let's consider the following example:

- 1. Total number of tokens in circulation:** 1,000,000,000
- 2. Monthly gold production:** 4.5 kg
- 3. Gold price:** \$75,000 USD per kg
- 4. Owners shares:** Owners retain 50% of gold for operations and development.
- 5. Gold available to investors:** 50% (100% - 50% of the owners' shares)

Distribution calculation per token:

a. Total monthly gold revenue:

$$4.5 \text{ kg} * \$75,000/\text{kg} = \$337,500$$

b. Total revenue available to investors in USD:

$\$300,000 * 50\% = \$168,750$

c. Monthly revenue per token (for investors):

$\$187,500 / 1,000,000,000 \text{ tokens} = \text{\$0.00016875 monthly profit per token}$

Interpretation:

In this example, an investor who purchased 2,000,000 tokens at the initial price of \$0.00105 per token would receive **\$337.5 per month** (based on the provided gold price). This amount may vary depending on the factors mentioned above, such as actual gold production and the market price of gold.

By investing **\$2100** in our mining project and acquiring 2,000,000 tokens, an investor could receive \$337.5/month for a period of one year, totaling **\$4050** based on the mentioned gold price. Of course, this amount could vary depending on mining results and gold market fluctuations.

Distribution formula: Monthly revenue per token (USDT) = $(M * P * 0.5) / 1,000,000,000$
Where M = Total monthly gold production (kg), P = Gold price (USDT/kg).

We are committed to providing regular updates to our investors to keep them informed of project progress and any significant developments.

Advantages of Gold Distribution (converted to cash):

- **Returns linked to processing plant's performance:** Investors receive a tangible share of the profits generated by the gold processing plant, aligning their interests with the company's success.
- **Transparency and traceability:** The distribution of gold value through a smart contract ensures a transparent and verifiable process, providing fair distribution to token holders.
- **Intrinsic value:** Gold is a tangible and valuable asset, recognized for its long-term value stability.

To Summarize:

The distribution of gold profits in cash provides investors with a tangible and concrete advantage, directly linking them to the plant's performance and gold production. This innovative approach enhances the attractiveness of the investment and allows token

holders to share in the returns in a transparent and secure manner.

Marketing Strategy

- Target investing communities.
- Highlight the potential for high returns through increased gold yield.
- Emphasize the transparency and security of tokenized shares.

Governance

- Establish a clear governance framework to manage processing plant operations and ensure fair distribution of gold to investors.
- A team from GESMINE-INVEST Ltd will be on site at the gold processing plant 24/7 throughout the entire operating period and will provide regular updates to all of its investors.
- Enable investor participation in strategic decision-making.

Conclusion

This tokenized gold processing plant project offers a unique opportunity for investors to participate in a promising venture with high return potential. Combining traditional gold mining with blockchain technology provides an innovative and transparent approach to financing and governance.

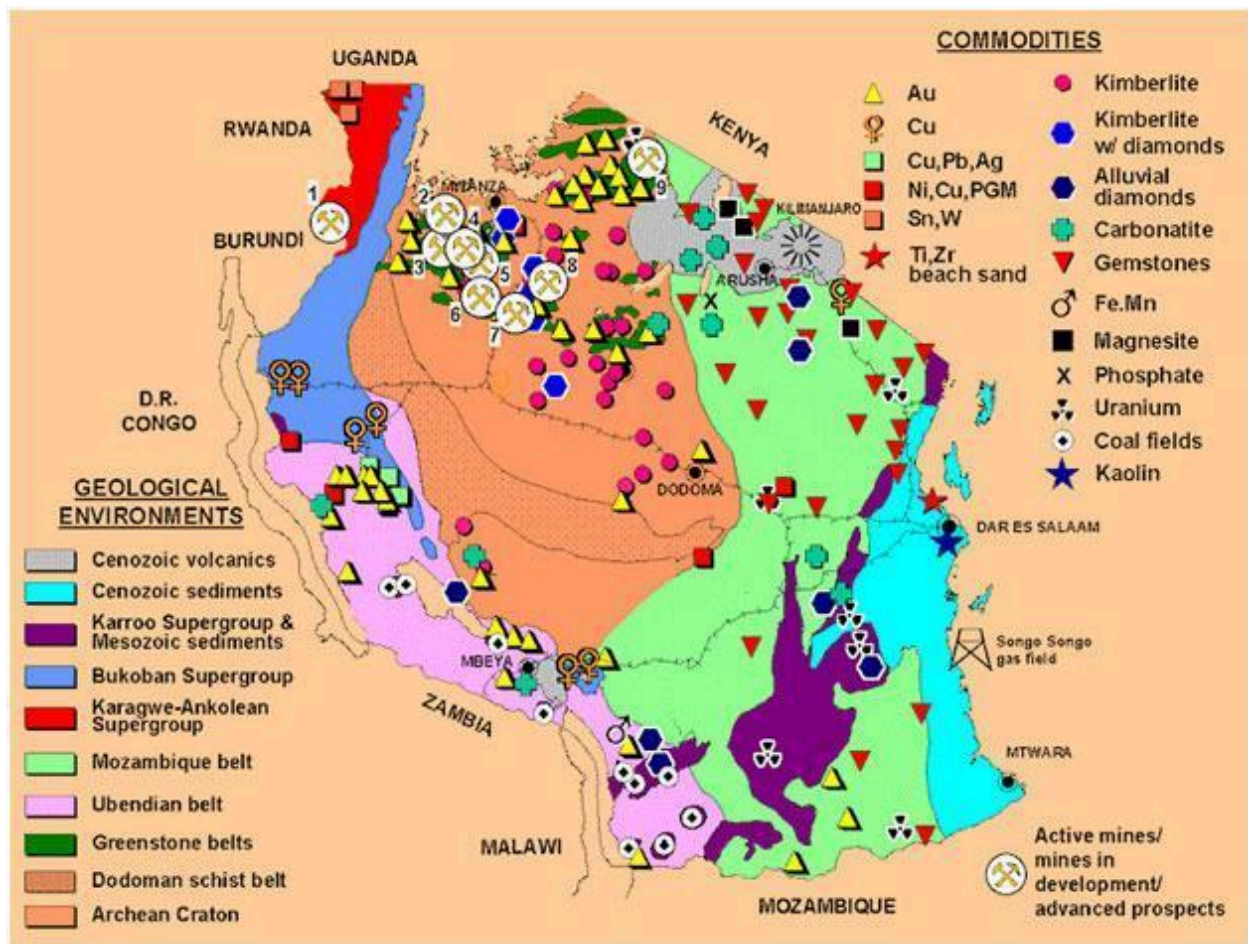
To showcase our investment offering, please find attached photos of our gold processing facilities, data on Tanzania's commodities, details on the 'VAT LEACHING GOLD EXTRACTION' process, and Financial Estimates Summary: (see following pages)











Commodities map of Tanzania. Source: High Commission of the United Republic of Tanzania (New Delhi, India)

Mbeya province is home to numerous gold mines.

VAT LEACHING GOLD EXTRACTION

HOW DOES THIS WORK?

Vat leaching can be described as leaching (draining from soil) in a bathtub. In Vat leaching the ore, usually after size reduction, is manually loaded into the vats. Vats are tanks built by bricks & cement and may be rectangular or circular with a partial filter floor. Vat leaching can be operated in a batch fashion or but continuously.

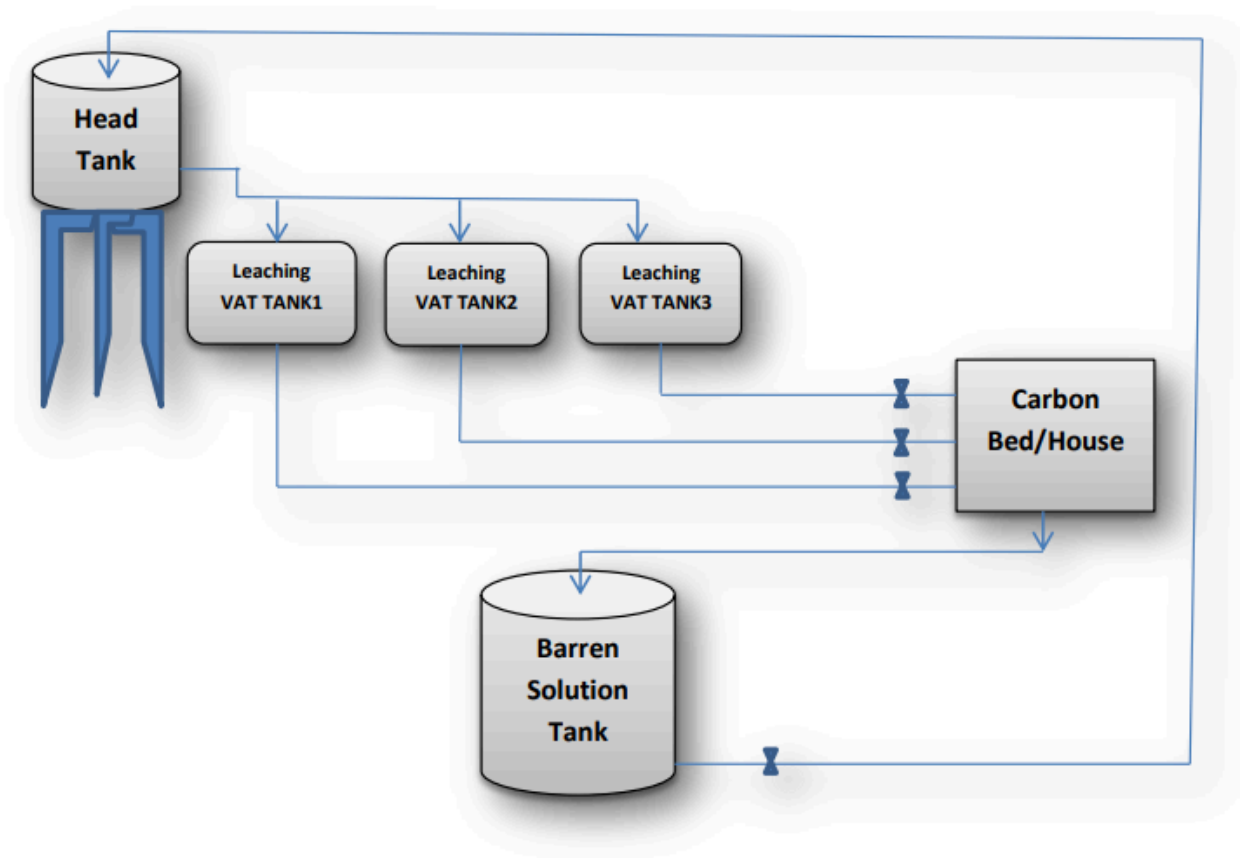
Once Vats are loaded with ore, they are flooded with a leaching solution mainly of a desired cyanide concentration at ambient operating conditions through the filter section of the floor.

These sharp injections of the leaching solution accelerate dissolution of the gold due to the dynamic contact between the cyanide solution and solid ore particles. After passing through the ore, the solution is drawn off through the filtered floor via PVC pipes equipped with valves for solution flow rate control. It can either recycled back into the vats or taken to the next step of the recovery process. This is determined by checking gold content in solution drawn from the vat by carrying out a Color Test.

The pregnant solution from vats is taken to the next step of recovery which is gold adsorption to carbons. The solution is passed through a carbon bed which can either be a cemented basin with several chambers or carbon columns.

Once carbons are saturated (cannot absorb more gold), they are manually offloaded and packed in bags and transported to a stripping facility, Elution plant. Here a process called Electro winning is used to strip out the gold. Precipitate from the process is rinsed several times and the dried solids mixed with fluxes before smelting so as to remove them from gold. The smelted material becomes the gold bar, is weighed and secured ready for selling.

Sketch - Vat leaching Process Flow Diagram



✚ A facility that is currently operational is available, & accessible, for a site visit.

Financial Estimates Summary

i. One-Off Expenses

BUDGET ITEMS	DESCRIPTION	ONE-OFF COSTS
The Land	<ul style="list-style-type: none"> - Propose at least 10 acres - Fencing - Site Office, Living Quarters, Storage & Facilities 	USD 77,000
Licensing & Legal	<ul style="list-style-type: none"> - Operating licenses, NEMA approvals & Legal fees 	USD 103,200
Monitoring & Access Control	<ul style="list-style-type: none"> - Smart Security Cameras - Smart Access Locks - Perimeter Smart Lighting - Control Room 	USD 6,400
Internet & WiFi Setup	<ul style="list-style-type: none"> - Satellite Solution - Hotspot Units 	USD 2,300
Leaching Plant	<ul style="list-style-type: none"> - Twelve 3.5-tonne tanks - Piping & Lab - Carbon Columns - Barrel (Chemical mixer) - Chemical Tank - Staff Quarters, Facilities & Office - Pump & Water Storage 	USD 115,000
Crushing Equipment¹	<ul style="list-style-type: none"> - Ball Mill (x2) - Jaw Crusher (x2) 	USD 160,000
Site Office	<ul style="list-style-type: none"> - Office Furniture & Equipment 	USD 3,700
Vehicles	<ul style="list-style-type: none"> - Double Cabin Pick-up - Pick-up - Motorcycle 	USD 155,300
Power / Lighting	<ul style="list-style-type: none"> - IOT Based Solar Solution - Smart Flood Lights - Generator 	USD 38,500
TOTAL:		USD 661,400

¹ This includes site preparations (two ground barrels), Steel fabrications & Power motors | Min 5-20 t/h

ii. Recurrent Expenses

BUDGET ITEMS	DESCRIPTION	RECURRENT COSTS
Staff	<ul style="list-style-type: none"> - Site Manager - Accounts / Auditor (Contracted) - Board Oversight - Site Foreman - Site & Mine Operators - Site & Mine Casuals - Site & Mine Askaris - Site Food Items 	USD 23,000 Monthly
VAT Leaching Process	<ul style="list-style-type: none"> - Chemical Materials - Lab Testing - Generator Running Costs - Transport & Loading - Water 	USD 30,900 Per Cycle ²
Gold Ore	<ul style="list-style-type: none"> - Mining Process (x4 Mines) - Mine Leasing Fees - Tailings Purchases - Testing and purchase 	USD 19,200 Per Cycle
Assaying (Elution Plant)	<ul style="list-style-type: none"> - After leaching - Quality check and the separation of the gold from carbon 	USD 3,500 Per Cycle
Monthly General Expenses	<ul style="list-style-type: none"> - Food, Subscriptions, Petty Cash, etc 	USD 4,000 Monthly
OPEX per cycle:		USD 80,600
Total 4-Month Cushion OPEX:		USD 322,400

² A Cycle is an estimated 4-6 weeks