

BUSINESS PLAN
MWAMANGA LIMITED COMPANY



**Mineral Processing Facility in Kahama
District, Tanzania**

1. Executive Summary

Business Name: *Mwamanga Company Limited.*

Location of the project : Kahama District, Shinyanga Region.

Business Type: Gold Mineral processing and beneficiation (hydrometallurgical or gravity processing)

The project will operate a **licensed mineral processing facility** offering:

- Gold ore crushing and milling
- Gravity concentration (sluice box / centrifugal concentrator)
- Optional leaching (subject to licensing)

The facility will operate on a **toll-processing model**, charging miners a processing fee or retaining a percentage of recovered gold.

- **Objectives:**
- To establish a small-scale mineral processing plant that provides efficient and environmentally compliant processing services to miners in Kahama, enabling higher recovery rates and increased income for local miners.
- To establish a gold mineral processing plant to refine raw ores/concentrates into market-ready products.
- To create value addition locally, reducing export of raw concentrates.
- To generate employment and contribute to local economic development.
- Target supply to domestic and global markets.

Expected Capacity:

- 5–10 tonnes of ore per day
- Gravity concentration with optional cyanidation (CIP)

Project Life: 5 + years

Mission:

To provide high-quality Gold mineral processing services while maximizing value addition within Tanzania's mining value chain.

Vision:

To be a leading mineral processing hub in East Africa, supporting Tanzania's industrialization goals.

2. Company Description

Mwamanga Company Limited will operate a processing facility that transforms Gold mineral ore concentrates to finished/beneficiated products for sale domestically or for export.

Strategic Location Benefits:

- Proximity to mining sites and transport infrastructure (roads and rail).
 - Special Economic Zone incentives as the area is being developed into an industrial park focused on mining and value addition.
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3. Market Analysis

Industry Overview:

Tanzania is expanding local mineral processing capacity and value addition — including multi-metal refineries for nickel, copper, and cobalt at Kahama, thanks to government support and SEZ incentives.

Target Market:

- Local mining companies needing processing capacity.
- Regional industrial users of refined metals.
- Export markets for metals and processed mineral products.

Market Opportunity:

- Historically, Tanzania exported raw concentrates; local processing keeps more value in the country.
 - Government policy encourages in-country beneficiation.
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4. Products and Services

Primary Products:

- Refined Gold – This will be the primary product.

Services:

- Toll processing for mining companies.
 - Metallurgical testing and certification for clients.
 - Custom blending and recovery optimization.
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5. Operational Plan

Site & Infrastructure:

- Land licenced for mining at Kahama.
- Access to power, water, roads, and logistics hubs.

Technology & Equipment:

- Crushers, grinders, flotation/hydrometallurgical leach circuits.
- Tailings and waste management systems per environmental standards.

Process Overview:

1. **Ore receipt and preparation:** Sorting and initial crushing.
2. **Concentration/refining:** Using gravity/flotation/hydrometallurgical technology.
3. **Product finishing:** Filtration, drying, packaging

6. Management & Organization

Management Team:

- **CEO/Director:** Business leadership and strategy.
- **Operations Manager:** Oversees processing plant.
- **Technical/Metallurgy Lead:** Ensures quality processing.
- **Finance & Admin:** Bookkeeping, compliance, HR, and procurement.

Advisors: Legal consultants, environmental specialists, and mining engineers.

7. Regulatory & Compliance

Licensing:

- Mineral processing licence from the Tanzanian Mining Commission.
- Environmental permits and compliance with National Environment Management Council requirements.

Local Content & Environmental Plans:

- Comply with local content and employment obligations.
- Environmental and social impact assessments and mitigation measures.

For mining and processing licences, key steps include application submission, demonstration of financial capability, environmental management plans, and approval from relevant authorities.

8. Marketing Strategy

Brand Positioning:

- Local beneficiation partner for mining companies.
- Efficient, environmentally compliant processing services.

Sales Channels:

- Direct contracts with mining firms.
- Partnerships with commodities traders.

Promotion:

- Attend mining and industrial conferences.
 - Govt. stakeholder engagement.
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9. Financial Plan

Startup Costs:

- Site development
- Plant and equipment
- Licences and permits
- Working capital

Revenue Streams:

- Processing fees.
- Sale of refined metals/products.

Projected Profit & Loss:

(Outline realistic revenue, cost of sales, operating expenses, and net profits for the first 3–5 years.)

Break-Even Analysis:

Estimate the volume of processed minerals required to recover initial investment.

10. Risk Assessment & Mitigation

Operational Risks:

- Commodity price volatility

2. Gravity gold recovery
3. Tailings retreatment
4. Toll processing (percentage or fixed fee)

Revenue Options:

- Processing fee per tonne (USD 15–30/tonne)
 - Gold recovery sharing (5–10%)
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14 Market Analysis

Target Market:

- Artisanal miners in Kahama and nearby districts
- Small mining companies without processing plants

Demand Drivers:

- High gold activity in Kahama
- Government encouragement of formalized ASM operations
- Limited modern processing facilities for small miners

Competition:

- Traditional manual processing (low efficiency)
 - Few modern small-scale plants
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15. Operational Plan

Processing Flow

1. Ore delivery by miners
2. Crushing and milling
3. Gravity concentration
4. Gold collection
5. Tailings disposal

Key Equipment (Indicative)

- Jaw crusher
 - Ball mill
 - Sluice boxes / centrifugal concentrator
 - Water pump and settling tanks
 - Diesel generator or grid connection
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- Equipment downtime

Mitigation:

- Long-term contracts with mining partners.
- Scheduled maintenance and technical training.

Regulatory Risks:

- Changes in mining policy
- Mitigation:**
- Maintain strong compliance and government relations.
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11. Social & Environmental Impact

Outline how the business will:

- Create employment.
 - Promote skills transfer.
 - Implement waste and water management systems to protect local environments.
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12. Location Advantage – Kahama District

Kahama is one of Tanzania's most active mining zones, hosting:

- Numerous artisanal and small-scale gold miners
- Good road connectivity
- Existing mining services ecosystem

Competitive Advantage:

Most ASM miners lack access to efficient processing facilities, leading to gold losses and environmental harm. This project fills that gap.

13. Products & Services

Main Services:

1. Ore crushing and milling

16. Capital Investment Breakdown (USD 100,000)

| Category | Amount (TZS) |
|-----------------|----------------------|
| Land & site | 24,000,000 |
| Equipment | 72,000,000 |
| Vehicles | 20,000,000 |
| Licensing | 12,000,000 |
| Working capital | 50,000,000 |
| Contingency | 22,000,000 |
| TOTAL | 200,000,000/= |

17. Management & Staffing

| Position | Number |
|------------------|---------------|
| Project Manager | 1 |
| Plant Operator | 2 |
| Security | 1 |
| Accountant/Admin | 1 (part-time) |

18. Risk Analysis & Mitigation

| Risk | Mitigation |
|-----------------------|------------------------|
| Gold price volatility | Toll processing model |
| Equipment breakdown | Preventive maintenance |
| Regulatory delays | Early compliance |
| Water shortages | Recycling & storage |

19. Social & Environmental Impact

- Formalizes ASM processing

- Reduces mercury use
- Creates local employment
- Improves gold recovery efficiency

20. Conclusion

With a intended capital of Tsh 200,000,000/=, this project is **financially viable, low-risk,** and well-suited to Kahama's mining environment. It supports Tanzania's mineral value-addition agenda while generating sustainable income.

Kahama Mineral Processing Ltd. aims to leverage Kahama's strategic role in Tanzania's mining value-addition agenda to build a sustainable processing business that benefits stakeholders — from small-scale miners to global buyers — while supporting local economic growth.

Mwamanga

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