



STRIXGOLD INTERNATIONAL LIMITED

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PRODUCTION & GOLD REFINING PLAN

EXECUTIVE SUMMARY

StrixGold International Limited intends to establish a modular gold refinery and associated production hub in Tanzania that;

- Refines artisanal and small-scale miner (ASM) and commercial gold
- Complies with the Ministry of Minerals licensing and environmental rules
- Integrates with the Bank of Tanzania (BOT), Domestic Gold Purchase Program and the Government's policy to capture domestic refining value.

The refinery will be developed in phased capacity growth (Pilot → Commercial → Expansion) while prioritizing local content, formalization of ASM supply and traceability.

STRATEGIC OBJECTIVES

1. Capture domestic refining opportunities by offering licensed refining services to miners and traders and supporting the BOT program.
2. Formalize ASM supply chains via buy-back, assay, and payment services to increase traceable feedstock.
3. Scale capacity in phases:
 - Pilot (5–25 kg Au/month)
 - Commercial (100–500 kg/month),
 - Expansion (1,000+ kg/month) — each phase backed by CAPEX/OPEX and off-taker agreements.
4. Deliver on Tanzanian local content and employment requirements, and deliver environmental compliance (EIA).

REGULATORY & COMPLIANCE ROADMAP

StrixGold International Limited will;

1. Apply for processing / smelting / refining licence with the Minister of Minerals (via prescribed forms and company incorporation documents).
2. Complete an Environmental Impact Assessment (EIA) and secure NEMC approval, covering waste management, effluent controls and cyanide/mercury management plans.
3. Register and liaise with Bank of Tanzania (BOT) to participate in the Domestic Gold Purchase Program and meet any designated-refinery requirements/agreements.
4. Implement Local content & employment compliance, including Tanzanian training, procurement policies, and expatriate succession plans as stipulated by the Mining Act and licensing guidance.

SITE SELECTION & INFRASTRUCTURE.

- **Preferable locations:** Geita, Mwanza or Dar es Salaam logistics hub- close to mining activities and secure transport corridors. TIC can advise on land and incentives.
- **Infrastructure needs:** Stable 3-phase power, water supply, secure perimeter, customs-ready export space, vault and assay lab.
- **Environmental and Safety:** Secure storage for reagents and concentrates, environmental buffer zones and emergency response plan.

OPERATIONS & TECHNICAL PLAN

Phased approach:

Phase 0 — Feasibility (0–3 months): desktop study, sample assays from target supply, basic CAPEX/OPEX estimate, stakeholders mapping.

Phase 1 — Pilot (4–9 months): modular refinery (50–200 kg/year), assay lab, small smelting line, refining (electro-refining or aqua regia + precipitation depending on feed), secure safety systems, local supplier engagement and traceability systems.

Phase 2 — Commercial (9–24 months): expand to continuous feed furnaces, induction melting, full refining to commercial bullion ($\geq 99.5\%$ depending on tech), accredited assaying and refinery QA/QC, Integrate bullion packaging and certified shipments.

Technical notes: Refining technology selected per feed type (doré vs concentrates vs scrap). STRIXGOLD INTERNATIONAL LIMITED will seek recognition from the Government Chemist for chemical use licensing

SUPPLY & OFFTAKE

- Aggregation centers for ASM producers to deliver feedstocks with on-site assay and payments.
- MOUs with licensed miners, dealers, and large-scale mining companies required to refine a domestic percentage.
- BOT participation for preferential terms (reduced royalties and VAT concession)
- Transparent traceability ledger (electronic receipts and chain-of-custody)

FISCAL & INCENTIVES

- BOT Domestic Gold Purchase Program: designated refinery advantages (royalty/VAT relief, secure offtake)
- TIC facilitation: land support, tax incentives (subject to threshold and category)

- STRIXGOLD INTERNATIONAL LIMITED will structure the project to maximize TIC eligibility.

FINANCIAL OUTLINE

STRIXGOLD INTERNATIONAL LIMITED will prepare a supporting excel model with:

- **CAPEX breakdown:** land/site, buildings, furnaces, refining lines, assay lab and vaults.
- **Working capital:** feedstock purchase, reagents and payroll.
- **Revenue:** refining fees, bullion sales margin and BOT premiums.
- **Sensitivity analysis:** gold price and feed grade.

CAPEX ranges (approx):

- Modular pilot: USD 0.3-1.0M
- Medium commercial: USD 3-10M
- Large refinery: USD 15-50M

SOCIAL & ENVIRONMENTAL SAFEGUARDS

- Full EIA and Environment Management Plan (EMP).
- Commitment to cyanide/mercury elimination where possible.
- Secure tailings or waste handling.
- Community benefit: local employment, SME procurement, ASM training and supply chain formalization.

RISKS & MITIGATIONS

1. Feedstock irregularity / illegal supply chains — secure aggregation centers, licensed dealers, traceability system.
2. Regulatory changes — continuous liaison with Ministry of Minerals and BOT flexible contracts.
3. Security/theft risk — vaults, insured logistics, GPS-tracking, compliance with BOT/national custody rules.
4. Environmental/reputation — strict EIA compliance, transparent reporting and third-party audits.

IMPLEMENTATION TIMELINE

Months 0–3: Feasibility, sampling, preliminary EIA scoping, TIC engagement.

Months 3–9: Licensing submissions (refining licence + EIA submission), pilot plant installation.

Months 9–18: Commercial plant build, staff training, BOT/refinery agreements, pilot ramp to commercial throughput.

ATTACHMENTS FOR TIC SUBMISSION

1. STRIXGOLD INTERNATIONAL LIMITED company registration (MOA, TIN).

2. Project concept note + CAPEX summary.
3. EIA scoping report or EIA certificate.
4. Local content and training plan.
5. Preliminary offtake / supplier MOUs or letters of intent.

IMMEDIATE NEXT ACTIONS

1. Commission a 2-3 weeks feasibility and sampling program (feed grade, CAPEX)
2. Prepare draft refining license and EIA scoping note for Ministry of Minerals/NEMC.
3. Begin formal discussions with BOT for program participation and designation agreements.
4. Approach TIC for land allocation and incentive eligibility review.

Operational Manager,

Prisca Philex Shiyo

18/09/2025



Annexure:

1) Financial Projection Summary

a) Investment Financial Breakdown;

Category	Amount (USD)
Land & Building	\$1,000,000
Plant & Equipment	\$3,000,000
Vehicles	\$10,000,000
Furniture & Fittings	\$5,000,000
Pre-operational Expenses	\$2,000,000
Other Costs	\$4,000,000
Working Capital	\$25,000,000
Total Investment	\$50,000,000

b) 5-Year Financial Projection (Scenario Analysis)

Key Assumptions:

Gold Price Range: \$55,000/kg (low) → \$65,000/kg (high).

Production Growth:

- Conservative: +5% per year
- Base Case: +15% per year
- Optimistic: +25% per year

Net Margin:

- Conservative: 15%
- Base Case: 20%
- Optimistic: 25%

c) Conservative Scenario

(Slower growth, lower gold prices, tighter margins)

Year	Refined Gold (kg)	Revenue (\$55k/kg)	Operating Costs (85%)	Net Profit (15%)	Cumulative ROI (%)
1	100	\$5,500,000	\$4,675,000	\$825,000	1.7%
2	105	\$5,775,000	\$4,908,750	\$866,250	3.4%
3	110	\$6,050,000	\$5,142,500	\$907,500	5.2%
4	116	\$6,380,000	\$5,423,000	\$957,000	7.1%
5	122	\$6,710,000	\$5,703,500	\$1,006,500	9.1%

d) Base Case Scenario

(Steady growth, stable gold prices, healthy margins)

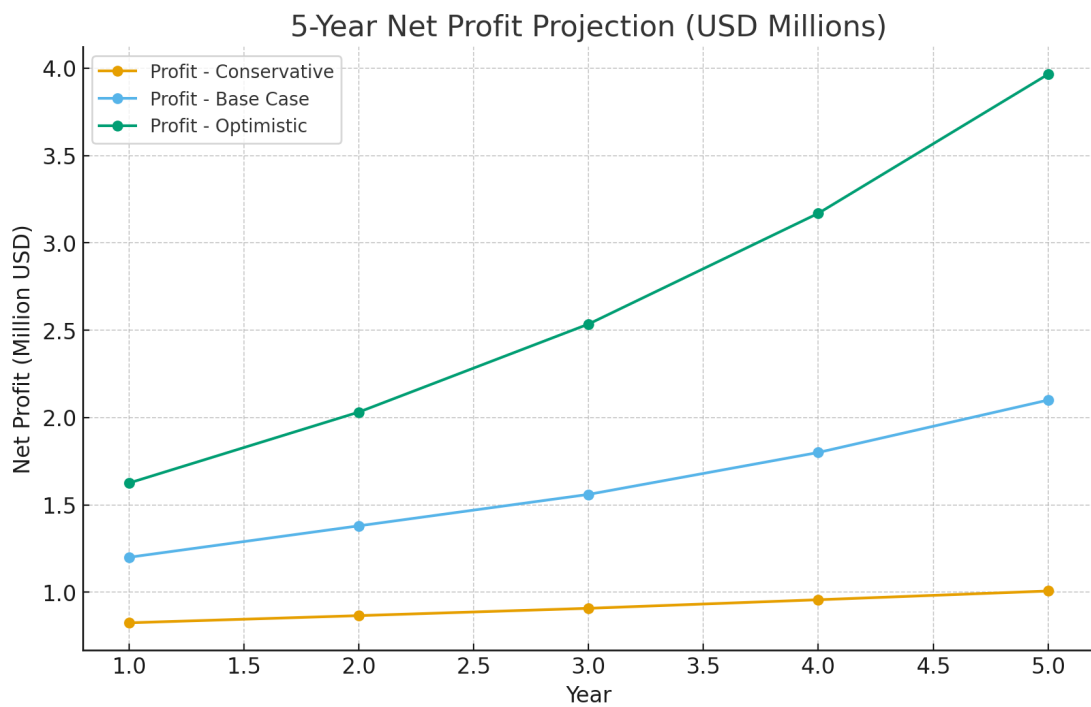
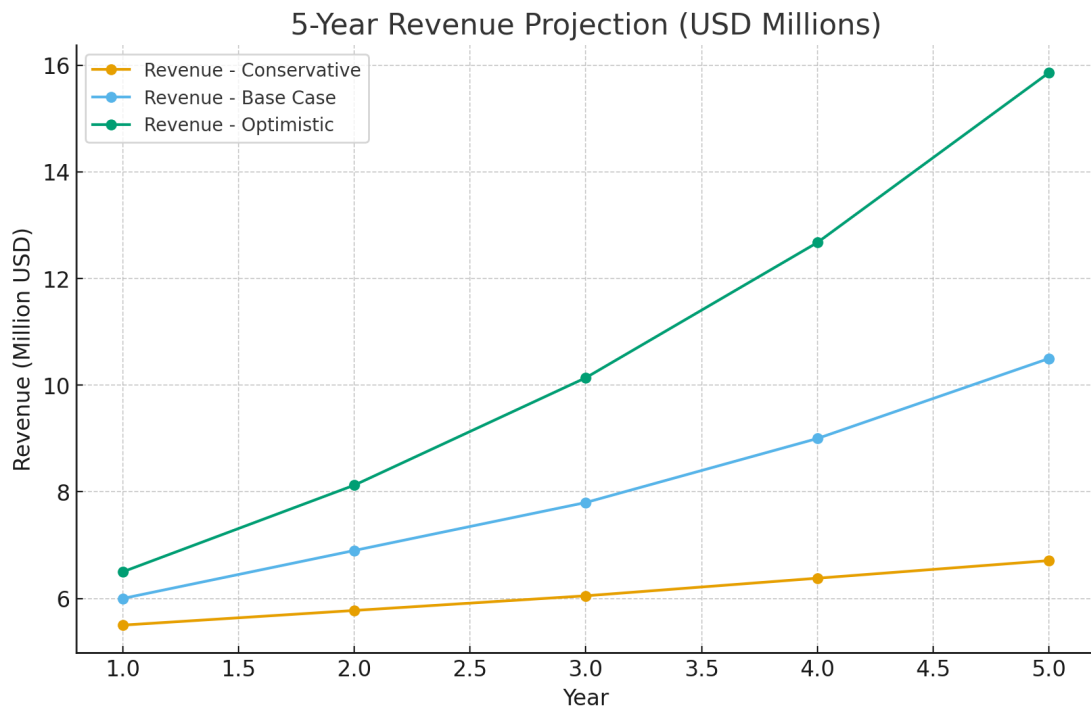
Year	Refined Gold (kg)	Revenue (\$60k/kg)	Operating Costs (80%)	Net Profit (20%)	Cumulative ROI (%)
1	100	\$6,000,000	\$4,800,000	\$1,200,000	2.4%
2	115	\$6,900,000	\$5,520,000	\$1,380,000	5.2%
3	130	\$7,800,000	\$6,240,000	\$1,560,000	8.3%
4	150	\$9,000,000	\$7,200,000	\$1,800,000	11.9%
5	175	\$10,500,000	\$8,400,000	\$2,100,000	16.1%

e) Optimistic Scenario

(Rapid growth, higher gold prices, strong margins)

Year	Refined Gold (kg)	Revenue (\$65k/kg)	Operating Costs (75%)	Net Profit (25%)	Cumulative ROI (%)
1	100	\$6,500,000	\$4,875,000	\$1,625,000	3.3%
2	125	\$8,125,000	\$6,093,750	\$2,031,250	7.4%
3	156	\$10,140,000	\$7,605,000	\$2,535,000	12.5%
4	195	\$12,675,000	\$9,506,250	\$3,168,750	18.8%
5	244	\$15,860,000	\$11,895,000	\$3,965,000	26.7%

2) 5 - Year Revenue Projection



The financial projections illustrate strong growth potential across three scenarios. In the conservative case, revenues increase steadily to approximately **\$6.7 million** by Year 5, with net profits reaching just over **\$1 million**. The base case reflects more robust performance, with revenues growing to about **\$10.5 million** and profits exceeding **\$2.1 million** by Year 5. Under the optimistic scenario, supported by higher

gold prices and faster production scaling, revenues surpass **\$15.8 million** and profits approach **\$4 million** by the fifth year. These results highlight both the resilience of the business under conservative assumptions and the significant upside potential achievable under favorable market conditions. As elucidated on the chart below;