

BUSINESS PLAN

**FOR THE REVITALIZATION AND OPERATION OF A TIN
PROCESSING PLANT**

EMDT COMPANY LIMITED

P.O. BOX 8569, DAR ES SALAAM, TANZANIA

Prepared by EMDT COMPANY LIMITED

@MAY 2025

TABLE OF CONTENTS

1.0 INTRODUCTION

2.0 BACKGROUND AND JUSTIFICATION

3.0 COMPANY PROFILE

4.0 VISION, MISSION & OBJECTIVES

4.1 Vision

4.2 Mission

4.3 Strategic Objectives

5.0 BUSINESS PLAN SCOPE AND PHASES

6.0 TECHNICAL AND OPERATIONAL DETAILS

7.0 OPERATIONAL PLAN

8.0 ENVIRONMENTAL AND SOCIAL COMPLIANCE

9.0 MARKET OUTLOOK AND SALES STRATEGY

9.1 Global Demand for Tin

9.2 Regional Market Dynamics

9.3 Tin Value Chain in Tanzania

9.4 Target Buyers and Offtake Strategy

9.5 Export Opportunities and Trade Facilitation

9.6 Sales and Pricing Strategy

9.7 Branding and Market Positioning

10.0 COMMUNITY AND GOVERNMENT BENEFITS

10.1 Employment Creation

10.3 Revenue Generation for Local and Central Government

10.4 Infrastructure Development

10.5 Technology and Skills Transfer

10.6 Community Development and CSR Initiatives

10.7 Support to Government's Industrialization Agenda

11.0 FINANCIAL BREAKDOWN

12.0 EXPECTED INCOME GENERATED FROM THE PROJECT

- 12.1 Production and Sales Estimates**
- 12.2 Gross Revenue Estimate**
- 12.3 Operating Costs Estimate**
- 12.4 Estimated Net Profit Before Tax (NPBT)**
- 12.5 Estimated Tax Obligations**
- 12.6 Estimated Net Profit After Tax (NPAT)**
- 12.7 Payback Period Estimate**
- 12.8 Five Year Financial Projection**

13.0 SOURCE OF FINANCE

14.0 RISK MANAGEMENT AND MITIGATION

15.0 REQUEST TO THE GOVERNMENT

- 15.1 Facilitation of Licensing and Regulatory Approvals**
- 15.2 Access to Cassiterite Supply Chain from ASM Sector**
- 15.3 Infrastructure and Utility Support**
- 15.4 Tax Incentives and Investment Protection**
- 15.5 Security and Compliance Assurance**
- 15.6 Collaboration in Skills Development**
- 15.7 Support in Export Market Linkages and Branding**

16.0 CONCLUSION

1.0 INTRODUCTION

EMDT Company Limited is a Tanzanian-registered entity committed to reviving and operationalizing a defunct tin processing plant located in Kyerwa District, Kagera Region. The initiative aims to support value addition in Tanzania's mining sector by enhancing cassiterite (tin ore) beneficiation through the establishment of a modern and semi-automated processing facility. The company has secured a long-term lease of the former factory premises and intends to upgrade, equip, and operate the site under a newly signed industrial development contract.

The core objective of the project is to promote local mineral processing, minimize raw mineral exportation, and boost economic returns through the production of high-purity tin ingots for local use and international markets. The project is aligned with national strategies for mineral beneficiation, job creation, and technology transfer within the small- and large-scale mining sectors. Through structured procurement from artisanal and small-scale miners (ASM), EMDT seeks to establish a reliable supply chain that is traceable, compliant, and inclusive.

The total investment required to operationalize the project stands at approximately USD 1.17 million, covering rehabilitation of infrastructure, acquisition of processing machinery, procurement of transport vehicles, industrial fittings, working capital, and pre-operational expenses. The facility is projected to process 100 tons of cassiterite per month with a 60% recovery rate, resulting in 720 tons of refined tin annually, potentially generating revenues exceeding USD 18 million per year.

EMDT is fully committed to adhering to Tanzanian mineral regulations, safety and environmental standards, and engaging in transparent collaborations with the Mining Commission, TMAA, NEMC, and other relevant bodies. The company welcomes the government's oversight and support as it endeavors to build a sustainable and value-driven industrial operation that contributes to local development and national revenue.

2.0 BACKGROUND AND JUSTIFICATION

EMDT Company Limited (EMDT) was founded with the primary mission of contributing to Tanzania's industrialization agenda through innovation, mineral beneficiation, and ethical mining practices. Registered under Tanzanian company law, EMDT is led by a multidisciplinary team with expertise in mineral economics, engineering, community development, and business administration. The company operates from its headquarters in Dar es Salaam with operational activities focused in the Kyerwa District.

The company was awarded a contract to redevelop and manage a formerly operational tin processing plant that had become inactive due to economic and operational constraints. Recognizing the strategic importance of this facility to the local and national economy, EMDT stepped in with a revitalization plan that includes infrastructural overhaul, machinery upgrades, and the integration of environmental safeguards to ensure sustainable operations.

EMDT is guided by principles of local empowerment, transparency, and public-private partnership. The company intends to work closely with local government authorities, artisanal miners, village leaders, and other stakeholders to ensure that the factory serves as a catalyst for rural development. This engagement includes job creation, training programs, and support for local suppliers and service providers.

The company envisions becoming a model in responsible mineral processing in Tanzania and beyond. With the growing global demand for tin in electronics and renewable energy systems, EMDT aims to position the Kyerwa plant as a regional processing hub, leveraging the country's natural resource base while adding value domestically in line with Tanzania's Vision 2025 and the African Mining Vision.

3.0 COMPANY PROFILE

Company Name: EMDT Company Limited

Registration No: 156669393

Location: Head office in Dar es Salaam; operations in Kyerwa

Sector: Mining, Processing, and Industrial Development

Ownership: 20% by Tanzanians and the rest 80% by foreigners

Core Competencies: Mineral beneficiation, plant operations, stakeholder engagement

4.0 VISION, MISSION, AND STRATEGIC OBJECTIVES

4.1 Vision

To be a leading model in sustainable tin processing in East Africa, championing value addition and socio-economic transformation.

4.2 Mission

To process high-quality tin from Tanzanian ore, create decent jobs, and uplift local communities through ethical and transparent mineral beneficiation.

4.3 Strategic Objectives

- i. Upgrade and maintain a modern tin processing facility.
- ii. Source and process at least 300 metric tons of cassiterite per month.
- iii. Establish inclusive procurement agreements with over 100 small-scale miners.
- iv. Adhere to international environmental, health, and safety (EHS) standards.
- v. Achieve financial sustainability within the first three years of operation.

5.0 Business Plan Scope and Phases

Phase	Timeline	Key Activities	Expected Outputs
Phase 1: Project Mobilization and Legal Compliance	Month 1 – Month 2	<ul style="list-style-type: none">☐ Finalize land and lease agreements☐ Register with Ministry of Minerals, TMAA, NEMC, OSHA, TIC, EPZA☐ Submit EIA reports	<ul style="list-style-type: none">☐ Legal approvals secured☐ EIA and compliance documentation approved☐ Community support obtained

		<ul style="list-style-type: none"> ☒ Stakeholder consultations (ASM groups, local gov't) 	
Phase 2: Infrastructure Rehabilitation and Expansion	Month 3 – Month 6	<ul style="list-style-type: none"> ☒ Renovate and upgrade existing factory buildings ☒ Construct processing shed, stores, offices, lab ☒ Install utility systems: power, water, sanitation 	<ul style="list-style-type: none"> ☒ Secure and functional factory premises ☒ Utility infrastructure tested and ready
Phase 3: Equipment Procurement and Setup	Month 5 – Month 8	<ul style="list-style-type: none"> ☒ Procure tin processing equipment (crushers, concentrators, furnaces) ☒ Transport and install machinery ☒ Train local technicians and operators 	<ul style="list-style-type: none"> ☒ Machines operational ☒ Skilled workforce ready to operate plant
Phase 4: Operational Launch and Pilot Production	Month 9 – Month 10	<ul style="list-style-type: none"> ☒ Source cassiterite from ASM ☒ Test-run production lines ☒ Quality control and export logistics setup 	<ul style="list-style-type: none"> ☒ Pilot production completed ☒ First refined tin ready for market ☒ Cash inflow initiated ☒ Ramp up production to 100 tons cassiterite/month ☒ Steady revenue flow
Phase 5: Full Commercial Operation and Market Expansion	Month 11 onward	<ul style="list-style-type: none"> ☒ Expand sourcing and export contracts ☒ Implement CSR activities and employment programs 	<ul style="list-style-type: none"> ☒ Established market footprint ☒ Positive social impact recorded

6.0 TECHNICAL AND OPERATIONAL DETAILS

The tin processing plant to be developed by EMDT Company Limited will be located on a site previously used for similar mineral processing operations in Kyerwa District, Tanzania. The existing infrastructure including buildings, ore yards, and foundations offers a strategic technical advantage, significantly reducing initial civil construction costs. The plant will operate under a modular design approach, enabling phased installation and future expansion depending on the scale of ore supply and market demand.

At the core of the plant's technical setup is the integration of advanced mineral beneficiation technologies suitable for cassiterite ore. The process line will begin with crushing and screening units, followed by gravity separation using shaking tables and spirals to recover tin concentrates. The concentrates will then pass through a smelting furnace where they are refined into high-grade tin metal. Additional equipment such as melting crucibles, water recycling units, and quality testing instruments will ensure product compliance with both local and international standards.

Power supply to the facility will rely on a hybrid system that integrates the national grid (where available) and industrial generators to ensure 24/7 operation. Water needs will be met through a combination of rainwater harvesting systems and borehole sources,

supported by recycling circuits to minimize waste discharge. Effluent and solid waste will be handled through designated tailings management systems that comply with NEMC environmental regulations.

The technical plan also includes a dedicated laboratory and quality control unit for mineral grade assessment, as well as safety infrastructure such as fire systems, PPE zones, and emergency exits. All machinery will be sourced from reputable manufacturers with installation support and local training components. EMDT intends to ensure technology transfer by engaging Tanzanian technicians in setup and long-term maintenance processes, thus building local technical capacity.

7.0 OPERATIONAL PLAN

The plant will operate under a centralized management structure headed by a Plant Manager, reporting directly to the board of EMDT Company Limited. The management team will include heads of operations, finance, procurement, community affairs, and logistics. Daily operations will be carried out by trained local personnel including machine operators, laboratory technicians, safety officers, and support staff. Recruitment will prioritize skilled youth from Kyerwa and surrounding districts to ensure local ownership and sustainability.

The production schedule will follow a structured cycle, with cassiterite ore received and stored in a secure yard before processing. Each production shift will last eight hours, with three rotating shifts per day to ensure continuous operation. Output will be monitored using digital logbooks and production dashboards installed in the control room. The operational framework will also incorporate predictive maintenance and daily safety briefings to ensure efficiency and accident-free working conditions.

Raw materials will be sourced from artisanal and small-scale miners (ASM) through structured supply agreements that include fair trade provisions and quality assurance checks.

A dedicated procurement officer will manage ore acquisition and oversee coordination with field buyers. Finished tin products will be packaged and transported for

domestic or export sale, depending on demand. Strategic partnerships will be explored with local logistics firms to streamline supply chains and reduce costs.

To ensure compliance and coordination with government authorities, EMDT will maintain an internal compliance desk responsible for liaison with the Tanzania Mining Commission, TRA, OSHA, and NEMC. The plant will undergo periodic inspections and submit regular production and environmental reports. Operational transparency will also be supported by an internal audit committee, ensuring that production targets, safety standards, and social responsibility commitments are consistently met.

8.0 MARKET OUTLOOK AND SALES STRATEGY

The establishment and operation of a tin processing plant inherently present environmental challenges such as waste generation, dust emissions, and potential contamination of water bodies. To address this, the company will implement an Environmental Management Plan (EMP) guided by NEMC regulations and will install tailing management and water recycling systems to minimize pollution.

A comprehensive Environmental Impact Assessment (EIA) will be conducted prior to the commencement of operations. This will evaluate site-specific ecological risks and propose mitigation strategies tailored to the Kyerwa District context. The EIA will also be submitted for review and approval by the relevant authorities to ensure legal conformity.

On the social front, the project is expected to generate significant positive outcomes, including job creation, increased local income, and skills development for youth. However, risks such as land use disputes or community dissatisfaction may arise. EMDT will carry out continuous community engagement programs and ensure that grievances are handled transparently through a participatory grievance mechanism.

Furthermore, the company is committed to promoting inclusivity and gender equity by

ensuring fair employment opportunities for women and marginalized groups. Corporate Social Responsibility (CSR) initiatives will be embedded into the operational model, focusing on education, health, and infrastructure support in collaboration with local government and civil society actors.

9.0 MARKET ANALYSIS AND SALES STRATEGY

9.1 Global Demand for Tin

Tin remains a highly demanded industrial metal due to its diverse applications in electronics, soldering, packaging, and chemical industries. The global tin market is projected to grow steadily, driven by increased consumption in developing countries and the shift to green energy technologies such as electric vehicles and solar panels. According to the International Tin Association, global demand for refined tin is expected to surpass 400,000 tons annually by 2027, creating a favorable environment for new processing ventures.

9.2 Regional Market Dynamics

In the East African region, Tanzania is strategically positioned to become a reliable supplier of tin due to its growing artisanal mining base and improving investment climate.

Neighboring countries such as Rwanda and the Democratic Republic of Congo (DRC) have already established themselves as tin exporters, but Tanzania presents an untapped potential with significant reserves, particularly in the Kyerwa-Kabanga Belt. As regulatory systems improve, Tanzania is poised to compete favorably in regional markets.

9.3 Tin Value Chain in Tanzania

At present, most of the tin extracted in Tanzania is exported in raw or semi-processed form, resulting in minimal value addition and reduced economic returns. The establishment of a local tin processing plant will enable beneficiation at source, enhancing quality control, traceability, and earnings. This aligns with the government's mineral beneficiation policy under the Mining Act (as amended), which seeks to increase local processing and employment opportunities.

9.4 Target Buyers and Offtake Strategy

The company intends to engage both local and international offtakers through long-term supply agreements. Potential buyers include metal trading companies, smelting corporations, electronics manufacturers, and international tin exchanges. EMDT COMPANY LIMITED is already in preliminary talks with buyers from South Korea and India, who have expressed interest in high-grade tin ingots for industrial use. Additionally, domestic industries using tin-coated products present a viable short-term market.

9.5 Export Opportunities and Trade Facilitation

Processed tin from Tanzania enjoys preferential access to international markets under trade frameworks such as AGOA (for the US market), EBA (for the EU market), and SADC regional trade agreements. With proper certification and compliance, EMDT's processed tin can penetrate these markets with competitive advantage. The company will leverage Tanzania's improved port infrastructure and regional logistics to facilitate efficient exports through the Dar es Salaam port.

9.6 Sales and Pricing Strategy

Sales will be driven by a pricing model based on the London Metal Exchange (LME) tin index, adjusted for local market conditions and transport costs. EMDT will apply a flexible pricing mechanism that accommodates market volatility while securing stable revenue. The company plans to sell up to 80% of its production under fixed offtake contracts, with the remaining 20% sold on spot markets to maximize on favorable price fluctuations.

9.7 Branding and Market Positioning

EMDT aims to position itself as a reliable, responsible, and sustainable producer of refined tin in Tanzania. This will be supported by adherence to international standards in mineral traceability, environmental management, and corporate social responsibility (CSR). The company will actively participate in mining trade shows, establish a strong digital presence, and build a network of strategic partners to boost brand visibility and customer confidence.

10.0 COMMUNITY AND GOVERNMENT BENEFITS

10.1 Employment Creation

The tin processing plant will create direct employment opportunities for both skilled and unskilled labor within Kyerwa District and surrounding areas. It is estimated that the project will generate over 100 direct jobs, ranging from plant operators and engineers to administrative and support staff. Indirect employment through transporters, local suppliers, food vendors, and security providers will also significantly improve household incomes in the region.

10.2 Empowerment of Artisanal and Small-scale Miners (ASMs)

By establishing a reliable and formalized market for cassiterite, the plant will empower hundreds of small-scale miners through fair and consistent pricing mechanisms. The company intends to build long-term partnerships with ASMs, including technical training and safety sensitization, which will enhance their productivity and reduce environmental and occupational hazards.

10.3 Revenue Generation for Local and Central Government

The project will contribute to government revenue through various taxes, levies, and royalties. These include corporate income tax, mineral royalties, value-added tax (VAT), and local service levies. In addition, licensing and inspection fees paid to regulatory bodies such as the Ministry of Minerals and Tanzania Revenue Authority (TRA) will further support public coffers.

10.4 Infrastructure Development

The presence of the plant will necessitate improvements in local infrastructure, such as roads, electricity supply, and water access. EMDT plans to collaborate with local authorities to upgrade access roads and explore off-grid renewable energy solutions to ensure stable power. These improvements will benefit not only the factory but also schools, health centers, and households in the vicinity.

10.5 Technology and Skills Transfer

Through strategic partnerships with vocational institutes and technical colleges, the company will facilitate internships, apprenticeships, and on-the-job training for local youth. These programs will build a skilled workforce in areas such as metallurgy, machinery maintenance, quality assurance, and environmental management, contributing to long-term human capital development in the region.

10.6 Community Development and CSR Initiatives

EMDT COMPANY LIMITED is committed to implementing corporate social responsibility (CSR) initiatives tailored to community needs. Planned programs include supporting local schools with science equipment, sponsoring health campaigns, and establishing community funds for women and youth-led businesses. The company will engage local leaders to ensure inclusive participation and sustainable impact.

10.7 Support to Government's Industrialization Agenda

The establishment of a tin processing plant aligns directly with Tanzania's Vision 2025 and its Five-Year Development Plan, which emphasize industrialization and value addition of mineral resources. By converting raw cassiterite into refined tin domestically, the project will reduce mineral exports in raw form, increase local value retention, and enhance Tanzania's position in the regional and global mining value chain.

11.0 FINANCIAL BREAKDOWN

Category	Item Description	Estimated Cost (USD)
1. Land and Building	Lease and legal fees for land (10 years)	40000
1. Land and Building	Rehabilitation of existing buildings	90000
1. Land and Building	Construction of additional sheds/workshops	70000
1. Land and Building	Installation of fencing and security	20000
2. Machinery & Processing Equipment	Gravity concentrator (shaking tables, spirals)	75000
2. Machinery & Processing Equipment	Smelting furnace and melting crucibles	90000
2. Machinery & Processing Equipment	Refining system with quality control instruments	60000
2. Machinery & Processing Equipment	Water recycling & tailing management	25000
3. Vehicles	1 Minibus for staff transport	30000
3. Vehicles	Motorcycle for community/outreach coordination	10000
4. Office Furniture and Industrial Fittings	Workstations, desks, and chairs	10000
4. Office Furniture and Industrial Fittings	Meeting tables and conference fittings	5000
4. Office Furniture and Industrial Fittings	Safety lockers, lab benches, and storage cabinets	8000
4. Office Furniture and Industrial Fittings	Air conditioning, lighting, and ventilation	12000
4. Office Furniture and Industrial Fittings	Fire safety equipment (extinguishers, alarms)	5000
4. Office Furniture and Industrial Fittings	PPE gear for workers (helmets, gloves, boots, etc.)	10000
5. Pre-operational Expenses	Legal registration and permits (TMAA, EPZA, TIC, etc.)	15000
5. Pre-operational Expenses	Environmental Impact Assessment (EIA)	10000
5. Pre-operational Expenses	Staff recruitment and onboarding	15000

5. Pre-operational Expenses	Training and technical workshops	20000
5. Pre-operational Expenses	Community sensitization and stakeholder engagement	10000
5. Pre-operational Expenses	Branding, signage, and launch event	10000
6. Working Capital (Year 1)	Salaries and wages (management & operational staff)	100000
6. Working Capital (Year 1)	Procurement of cassiterite from ASM miners	80000
6. Working Capital (Year 1)	Utilities (electricity, water, fuel)	40000
6. Working Capital (Year 1)	Consumables and maintenance	30000
6. Working Capital (Year 1)	Mineral transport and marketing costs	20000
7. Contingencies & Miscellaneous	Unforeseen costs (5% buffer)	50000
TOTAL	GRAND TOTAL	1170000

12.0 EXPECTED INCOME GENERATED FROM THE PROJECT

12.1 Production and Sales Estimates

Item	Quantity	Unit	Notes
Cassiterite ore processed per month	45	tons	Average capacity of plant
Recovery rate of pure tin from cassiterite	60%	–	Industrial average
Monthly pure tin output	27	tons	60% of 45 tons
Annual pure tin output	324	tons	27 tons × 12 months
Average purity of refined tin	99.89%	–	Industrial grade
Average price per ton (USD)	31,717	–	Based on global price for 99.89% purity

12.2 Gross Revenue Estimate

Description	Value
Annual refined tin output	324 tons
Selling price per ton	USD 31,717
Gross Revenue	USD 10,283,908

12.3 Operating Costs Estimate

Item	Annual Cost (USD)	Notes
Procurement of cassiterite ore (ASM miners)	432,000	USD 36,000/month
Salaries and wages	100,000	Administrative + operational staff
Utilities (electricity, fuel, water)	30,000	Based on projected industrial use
Maintenance and consumables	25,000	Includes equipment spare parts
Mineral transport (to buyers/export)	40,000	Includes inland transport to Dar/port
Licenses, permits, and inspections	10,000	Annual renewals and compliance
Marketing and packaging	15,000	Local and international promotion
Community and CSR programs	10,000	Optional, strategic engagement
Total Operating Costs	662,000	

12.4 Estimated Net Profit Before Tax (NPBT)

Description	Value (USD)
Gross Revenue	10,283,908
Operating Costs	(662,000)
Net Profit Before Tax	9,621,908

12.5 Estimated Tax Obligations

Description	Rate	Amount (USD)
Corporate Income Tax	30%	2,886,572

12.6 Estimated Net Profit After Tax (NPAT)

Description	Value (USD)
Net Profit Before Tax	9,621,908
Less: Corporate Tax	(2,886,572)
Net Profit After Tax	6,735,336

12.7 Payback Period Estimate

Description	Value (USD)
Total Capital Investment	1,170,000
Annual Net Profit (after tax)	6,735,336

Estimated Payback Period	< 1 Year
---------------------------------	--------------------

12.8 Five Year Financial Projection

To reinforce the project’s long-term viability and financial robustness, EMDT Company Limited presents a five-year forward-looking financial projection based on baseline operational metrics, conservative growth assumptions, and international tin market benchmarks. These estimates are designed to provide a clear picture of the anticipated revenue trajectory, profitability, and return on investment throughout the early operational phase.

Key Assumptions:

- Base Year Production: 45 metric tons of cassiterite processed per month
- Tin Recovery Rate: 60%, yielding 324 tons annually in Year 1
- Purity: 99.89% refined tin
- Selling Price: USD 31,717 per ton (based on global LME average)
- Annual Operating Costs: Increase at ~10% per year to reflect scaling
- Corporate Tax Rate: 30%
- Production Growth: 10% annually for Years 2–4; 5% in Year 5

Five-Year Financial Forecast Summary:

Metric	Year 1	Year 2	Year 3	Year 4	Year 5
Refined Tin Output (tons)	324	356	391	430	451
Gross Revenue (USD)	10.28M	11.31M	12.44M	13.69M	14.37M
Operating Costs (USD)	662,000	728,200	801,020	881,122	925,178
Net Profit Before Tax	9.62M	10.58M	11.64M	12.81M	13.45M
Corporate Tax (30%)	2.89M	3.18M	3.49M	3.84M	4.03M
Net Profit After Tax	6.74M	7.41M	8.15M	8.96M	9.41M
Cumulative Net Profit	6.74M	14.14M	22.29M	31.25M	40.66M

Financial Interpretation:

- Payback Period: Less than 1 year (from Year 1 profit)
- 5-Year Net Profit After Tax: Over USD 40 million cumulatively
- Average annual net margin above 65%, indicating strong financial resilience

Implication for TIC and Investors:

This projection confirms that the tin processing project is not only operationally feasible, but also financially high-yielding and strategically aligned with Tanzania's industrialization goals. The company's reliance on equity financing (rather than debt), phased capacity scale-up, and local value addition model further de-risk the investment while maximizing national benefit.

13.0 SOURCE OF FINANCE

The total capital investment required to operationalize and expand the tin processing facility in Kyerwa District is estimated at USD 1,170,000. This entire amount will be financed by a foreign strategic partner, the Eco Recycling Company Limited, a registered entity based in South Korea.

Eco Recycling Company Limited specializes in mineral processing, metal recovery, and sustainable recycling technologies. The company has committed to fund the EMDT tin processing project under a contractual and equity-based arrangement, ensuring full financing of:

- i. Rehabilitation and expansion of plant infrastructure
- ii. Procurement and installation of machinery and equipment
- iii. Acquisition of operational vehicles
- iv. Pre-operational expenses and working capital for Year 1
- v. Environmental and safety compliance
- vi. Technical support and capacity building

This strategic partnership ensures that EMDT Company Limited will not rely on loans or local government subsidies during the startup phase, making the project financially stable and investor-ready from inception. The partnership is formalized through a long-term agreement that includes technology transfer, joint operations, and shared value creation, particularly through job creation and local sourcing in Tanzania. The following are the benefits that Eco Recycling Company Limited will acquire:

- **Market Expansion**
Access to East African cassiterite reserves (primary tin ore), particularly in the Great Lakes region.
- **Raw Material Security**
A steady and direct supply of tin concentrate, minimizing risks associated with global supply chain volatility.
- **Revenue Sharing**
Eco Recycling will benefit from an agreed profit-sharing model based on net income generated by the processing plant.
- **Technology Export**
Opportunity to export Korean mineral refining technologies and machinery into emerging African markets.
- **Brand Presence in Africa**
Strengthening the company's global footprint through a long-term operational presence in Tanzania.
- **Environmental Credits & CSR**
Participation in environmentally friendly processing and community development initiatives, potentially qualifying for carbon credits and positive international recognition.

14.0 RISK MANAGEMENT AND MITIGATION

One of the primary risks facing the tin processing plant project is the volatility of global tin prices. Fluctuations in international market demand may significantly affect revenue projections. To mitigate this risk, the company will establish forward contracts with reputable

buyers and diversify markets by targeting both local and regional industries that utilize refined tin.

Another notable risk is the inconsistency in cassiterite ore supply from artisanal and small-scale miners (ASM). Seasonal factors and informal practices can disrupt raw material flow. EMDT COMPANY LIMITED intends to formalize supply chains through Memoranda of Understanding (MoUs) with cooperatives and by providing technical support and incentives to ensure consistent delivery of ore.

Also, operational risks such as equipment breakdowns, power outages, and technical inefficiencies may cause production delays or increased costs. To manage this, the company will implement a preventive maintenance schedule, invest in standby power systems, and hire skilled technicians to oversee machinery operations and troubleshooting.

Moreover, regulatory and compliance risks, including changes in tax laws, mining policies, or licensing procedures, may affect project sustainability. The company will maintain strong communication with regulatory bodies like TMAA, NEMC, and EPZA and will engage legal experts to ensure ongoing compliance and readiness for policy shifts.

15.0 GOVERNMENT SUPPORT REQUESTS

15.1 Facilitation of Licensing and Regulatory Approvals

EMDT Company Limited respectfully requests expedited support from relevant government agencies, particularly the Ministry of Minerals, Tanzania Mining Commission (TMC), and other regulatory bodies, in acquiring the necessary licenses and permits to operationalize the tin processing plant in Kyerwa District. This includes, but is not limited to, mineral processing licenses, environmental compliance certifications, and export permits.

15.2 Access to Cassiterite Supply Chain from ASM Sector

We kindly request that the government assist in establishing a structured, transparent, and secure supply mechanism for cassiterite sourced from Artisanal and Small-scale Miners (ASM) within Kyerwa and surrounding districts. This support could include sensitization

programs, cooperative formation encouragement, and guaranteed access to ASM zones for sustainable ore procurement.

15.3 Infrastructure and Utility Support

We appeal for government collaboration in improving access to critical infrastructure, including reliable electricity supply (preferably industrial-grade), water sources, and road networks connecting the plant to the main trade corridors. This infrastructure will significantly enhance production efficiency and reduce logistics costs.

15.4 Tax Incentives and Investment Protection

In line with the government's goal to promote industrialization and value addition within the mining sector, we request for eligibility under existing tax relief frameworks such as the Export Processing Zones Authority (EPZA), TIC strategic investor status, and other investment protection guarantees. These incentives will improve cash flow, reduce startup burden, and promote long-term competitiveness.

15.5 Security and Compliance Assurance

The company seeks strong coordination with local security authorities and mining inspectors to ensure that the processing plant and its surrounding areas are safe for operations, free from illegal mining activity, and compliant with national mineral policies. A stable operating environment will encourage sustainable production and investor confidence.

15.6 Collaboration in Skills Development

We request government partnership through institutions such as VETA, Geological Survey of Tanzania (GST), and local universities, to facilitate technical training and capacity building for Tanzanian youth, particularly in mineral beneficiation, quality control, and plant operation. This initiative will boost local employment and knowledge transfer in line with national human capital development goals.

15.7 Support in Export Market Linkages and Branding

Lastly, we seek government guidance and promotion in accessing regional and international tin markets. Support in branding Tanzanian tin as a high-quality, responsibly sourced mineral could open premium markets and enable compliance with global due diligence standards such as the OECD Guidelines and the EU Conflict Minerals Regulation.

16.0 CONCLUSION

This business plan presents a practical, impact-driven initiative to unlock the value of Tanzania's tin resources. EMDT Company Limited is committed to transparency, environmental stewardship, and socioeconomic development. We welcome the opportunity to partner with the Government of Tanzania to implement this transformative industrial project.

APPENDIX 1

COMPANY OWNED ASSETS PRIOR TO PROJECT IMPLEMENTATION

Figure 1. Generator KVA 60



Figure 2. Compressor



Figure 3. Excavator



Figure 4. Processing Building for Converting Tin into Ingots (99% Purify)



Figure 5. Large Melting Tank for Tin – Capable of Melting 3 tons of Tin at Once, Melting Tin Ore up to 85% Purity.



Figure 6. Tin Purification Equipment



Figure 7. Tin Refining Equipment to Achieve 99% Purity

