

CHANG RAY MINING INVESTMENT LIMITED

P.O Box 7712

Dar es salaam, Tanzania.

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**BUSINESS PLAN FOR MINING SERVICE, MINERAL TRADE AND MINERAL
PROCESSING PROJECT TO BE LOCATED AT SAZA - SONGWE REGION**

SUBMITTED TO

TIC (Tanzania Investment Center)
Southern Highland Zone
P.O. Box 1361,
NBC Building, Karume Avenue,
Mbeya

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1. EXECUTIVE SUMMARY

Chang ray Mining Investment Limited (Reg. No. **188-679-722**) is a Tanzanian-registered private company with a capital base of **TZS 1.7 billion**. The company will operate in **Saza – Songwe Region**, focusing on **mining services, mineral trading, and mineral processing**.

Our mission is to provide value addition to raw minerals, strengthen Tanzania's beneficiation drive, and expand market access while ensuring compliance with national laws, environmental standards, and social responsibilities.

Key Objectives:

- a) Establish and operationalize a mineral service, trading, and processing facility by Q4 2025.
- b) Build partnerships with artisanal and medium-scale miners in Songwe and neighboring regions.
- c) Achieve profitability and sustainability within two years of operation.
- d) Support local development through employment and corporate social responsibility (CSR).

2. COMPANY OVERVIEW

- **Company Name:** Chang ray Mining Investment Limited
- **Registration Number:** 188-679-722
- **Legal Status:** Private Limited Company
- **Head Office:** Mkwajuni – Songwe, Tanzania
- **Business Activity:** Mining service, mineral trade, and mineral processing
- **Authorized Capital:** TZS 1,700,000,000/=
- **Ownership:** Privately owned

3. PRODUCTS AND SERVICES

3.1 Primary Activities:

- a) Crushing, milling, and processing of ore.
- b) Provision of mining-related services (logistics, technical, and supply).
- c) Trading of minerals in compliance with Mining Act regulations.
- d) Laboratory testing and certification of ores.
- e) Environmental and tailings management.

3.2 Target Minerals:

- a) Gold – sourced from artisanal and small-scale miners in Tanzania.
- b) Copper – from regional deposits in Songwe, Rukwa, Mpanda and Mbeya.
- c) Graphite – abundant in Southern Highland belts.
- d) Future scope: Lithium, Lead, and Zinc.

4. MARKET ANALYSIS

4.1 Industry Overview

Tanzania is a key player in Africa's mining sector, with growing emphasis on value addition. The Southern Highlands, particularly Songwe, remain underexploited yet rich in gold, graphite, and copper.

4.2 Market Opportunities

- a) Consistent supply of raw ore from artisanal and small-scale miners.
- b) Government incentives for local mineral processing and trade.
- c) Expanding export markets (Asia, Middle East, and neighboring African states).
- d) Local market demand for certified and value-added minerals.

4.3 Target Customers

- a) Artisanal and small-scale miners (ASM).
- b) Mining cooperatives and associations.
- c) Licensed exporters and government dealers.
- d) Smelters and refineries regionally and internationally.

5. STRATEGY AND IMPLEMENTATION

5.1 Competitive Advantages

- a) Strong financial capital base of **TZS 1.7 billion**.
- b) Strategic location in Mkwajuni, close to mining sites.
- c) Compliance with Tanzanian laws, NEMC, and OSHA standards.
- d) Experienced management team with mining expertise.

5.2 Implementation Timeline

Activity	Timeline
Land acquisition and preparation	Q2 2025
Procurement of equipment	Q3 2025
Recruitment and training staff	Q3-Q4 2025
Start of operations	Q4 2025

5.3 Marketing Approach

- a) Signing agreements with cooperatives and ASM groups.
- b) Participation in mineral trade fairs and TIC events.
- c) Strong online visibility through website and digital platforms.
- d) Community awareness programs to attract supply and buyers.

6. MANAGEMENT AND ORGANIZATION

6.1 Key Personnel

- **Managing Director** – Overall leadership and strategic direction.
- **Operations Manager** – Plant operations and process supervision.
- **Finance Manager** – Financial management, budgets, and compliance.
- **Marketing & Trade Officer** – Mineral sales, client relations, and logistics.
- **Environmental & Safety Officer** – ESIA, NEMC, and OSHA compliance.

6.2 Staffing Plan (Initial Phase)

- 25–35 employees including engineers, technicians, lab staff, admin, and security.

7. FINANCIAL PLAN

7.1 Initial Capital

TZS 1,700,000,000/= (Privately financed by Directors).

7.2 Estimated Allocation of Capital

Expenditure Item	Amount (TZS)
Land lease & preparation	250,000,000
Machinery & processing equipment	700,000,000
Plant construction & infrastructure	500,000,000
Licensing, legal & regulatory fees	70,000,000
Working capital (operations)	150,000,000
Contingency & reserves	30,000,000
TOTAL	1,700,000,000

7.3 Revenue Projections

Year	Estimated Revenue (TZS)	Estimated Net Profit (TZS)
2025	500,000,000 (Q4 only)	70,000,000
2026	2,800,000,000	700,000,000
2027	4,200,000,000	1,350,000,000

8. RISK ASSESSMENT

Risk

Mitigation Strategy

Risk	Mitigation Strategy
Mineral price fluctuations	Diversify minerals, secure contracts
Regulatory changes	Maintain TIC, MEM, and Mining Commission compliance
Supply inconsistency from ASM	Long-term MOUs with cooperatives
Environmental concerns	Full ESIA and environmental compliance

9. ENVIRONMENTAL & SOCIAL IMPACT

Chang ray Mining Investment Limited commits to:

- a) Conducting a full ESIA before operations.
- b) Employing waste and tailings treatment systems.
- c) Prioritizing local workforce employment.
- d) Supporting CSR projects in education, water, and health services.

10. APPENDICES

- a) Company Registration Certificate (Reg. No. 188-679-722).
- b) TIN Certificate.
- c) Draft Environmental Management Plan.
- d) Equipment list and Plant Layout.
- e) Management Team CVs



TANZANIA

C.1



Certificate of Incorporation of a Company

Section 15

No: 188679722

I HEREBY CERTIFY THAT

CHANG RAY MINING INVESTMENT LIMITED

is this day incorporated under the Companies Act, 2002
and that the Company is Limited.

GIVEN under my hand at Dar es Salaam this 4th day of
SEPTEMBER TWO THOUSAND AND TWENTY FIVE.



A handwritten signature in black ink, appearing to read "Hase" with a long horizontal line extending to the right.

PRINC ASST. REGISTRAR OF COMPANIES

CTIN: 1489893



TANZANIA REVENUE AUTHORITY

CERTIFICATE OF REGISTRATION FOR TAXPAYER IDENTIFICATION NUMBER (TIN)

(ISSUED UNDER SECTION 23 OF THE TAX ADMINISTRATION ACT 2015)

THIS IS TO CERTIFY THAT

CHANG RAY MINING INVESTMENT LIMITED

HAS BEEN REGISTERED WITH THE TANZANIA REVENUE AUTHORITY
AND ASSIGNED THE TAXPAYER IDENTIFICATION NUMBER

188-679-722

WITH EFFECT FROM: **04 SEPTEMBER 2025**

TRA LOCATION: **KINONDONI**

TAX OFFICE: **MILLENIUM TOWERS**

PHYSICAL LOCATION: **PLOT No. 1309 BLOCK No. 1**

STREET / AREA: **MASAKI**



**ALFRED T. MREGI
COMMISSIONER FOR DOMESTIC REVENUE**

NOTE: THE REQUIREMENTS UNDER WHICH THIS CERTIFICATE IS ISSUED ARE STATED OVERLEAF

CTIN: 1489893



TANZANIA REVENUE AUTHORITY

CERTIFICATE OF REGISTRATION
FOR
TAXPAYER IDENTIFICATION NUMBER (TIN)
(ISSUED UNDER SECTION 21 OF THE TAX ADMINISTRATION ACT 2015)

THIS IS TO CERTIFY THAT

CHANG RAY MINING INVESTMENT LIMITED

HAS BEEN REGISTERED WITH THE TANZANIA REVENUE AUTHORITY
AND ASSIGNED THE TAXPAYER IDENTIFICATION NUMBER

188-679-722

WITH EFFECT FROM: 04 SEPTEMBER 2025

TRA LOCATION: KINONDONI

TAX OFFICE: MILLENIUM TOWERS

PHYSICAL LOCATION: PLOT No. 1309 BLOCK No. 1

STREET / AREA: MASAKI



ALFRED T. MREGI
COMMISSIONER FOR DOMESTIC REVENUE

NOTE: THE REQUIREMENTS UNDER WHICH THIS CERTIFICATE IS ISSUED ARE STATED OVERLEAF

ENVIRONMENTAL MANAGEMENT PLAN (EMP)

CHANG RAY MINING INVESTMENT LIMITED

Location: Saza village, Songwe District, Songwe Region, Tanzania

Activity: Mining services, Mineral Trade and Mineral Processing

Date: July 2025

1. Introduction

XINFA Mineral Processing Company Limited, a company registered in Tanzania, is establishing a Mining services, Mineral Trade and Mineral Processing facility in **Saza, Songwe Region**. The company is committed to operating in a sustainable, safe, and environmentally responsible manner in compliance with the **Environmental Management Act (Cap. 191 R.E. 2023)** and guidelines from the **National Environment Management Council (NEMC)**.

This **Environmental Management Plan (EMP)** outlines procedures for minimizing, mitigating, and monitoring the environmental impacts associated with the company's activities.

2. Objectives of the EMP

- a) To ensure that all activities comply with national and regional environmental laws and regulations
- b) To prevent, reduce, or control environmental pollution from processing operations
- c) To promote sustainable use of resources and environmental stewardship
- d) To safeguard the health and safety of workers and surrounding communities
- e) To outline monitoring, reporting, and emergency response mechanisms

3. Project Description

- a) **Project Name:** CHANG RAY MINING INVESTMENT LIMITED Mineral Service, Trade and Processing Plant
- b) **Location:** Saza, Songwe District, Songwe Region
- c) **Activities:** Mining exploration activities or services, Crushing, grinding, flotation, gravity separation, dewatering, tailings management, packaging of processed minerals and Mineral Trading.
- d) **Target Minerals:** Gold, Copper, Graphite

4. Environmental and Social Aspects

Aspect	Potential Impact	Mitigation Measure
Land use	Soil erosion, habitat alteration	Site leveling, re-vegetation of unused areas
Water use & discharge	Water contamination, over-extraction of water	Water recycling systems, effluent treatment plant
Air emissions	Dust and emissions from machinery	Dust suppression, PPE, maintenance of equipment

Aspect	Potential Impact	Mitigation Measure
Noise	Noise from machinery and vehicles	Acoustic shielding, restricted working hours
Waste (solid & hazardous)	Contamination from tailings, oil, and chemicals	Secure waste storage, licensed disposal partners
Energy use	High power demand, GHG emissions	Energy-efficient equipment, explore solar backup
Occupational health	Exposure to chemicals and particulates	PPE, regular health checkups, training
Community impact	Health risks, displacement risk	No displacement; community sensitization & support

5. Environmental Mitigation Measures

5.1 Waste Management

- Construct and maintain **tailings storage facilities (TSF)** that meet NEMC guidelines
- Store **hazardous waste** (e.g., cyanide, mercury if used) in secure, labeled containers
- Contract **licensed hazardous waste handlers** for disposal

5.2 Air Quality Control

- Use **wet suppression systems** at crushing and screening points
- Install **dust collectors** and filters on ventilation systems
- Enforce use of **personal protective equipment (PPE)**

5.3 Water Management

- Construct **settling ponds** and **water recycling systems**
- Regularly **test effluent water** before discharge
- Avoid sourcing water from **protected or overused water sources**

5.4 Noise and Vibration

- Install **noise barriers** around generators and crushers
- Maintain a **buffer zone** between the plant and the nearest community

5.5 Emergency Preparedness

- Maintain a site **emergency response plan** for fire, chemical spills, and accidents
- Equip the site with **first-aid kits, fire extinguishers, and spill kits**
- Conduct **emergency drills** every 6 months

6. Monitoring Plan

Parameter	Method	Frequency	Responsible Party
Water quality	Sampling & lab	Monthly	Environmental Officer

Parameter	Method	Frequency	Responsible Party
Air quality (PM10)	analysis Dust meters, visual checks	Bi-weekly	HSE Technician
Noise levels	Decibel meter	Monthly	Safety Officer
Solid waste volumes	Weighing and records	Weekly	Waste Management Officer
Tailings integrity	Visual inspection, tests	Quarterly	Engineering & Safety Team
Community complaints	Grievance register	Ongoing	Community Liaison Officer

7. Institutional Arrangements

- a) **Environmental Officer** – Oversees EMP implementation and reporting to NEMC
- b) **Plant Manager** – Ensures compliance during operations
- c) **Safety & Health Officer** – Monitors occupational health and safety
- d) **Community Liaison Officer** – Coordinates with local stakeholders and addresses concerns

8. Legal and Regulatory Compliance

XINFA Mineral Processing Company Limited will ensure compliance with the following:

- a) Environmental Management Act (Cap. 191)
- b) Mining Act (R.E. 2023)
- c) Occupational Health and Safety Act (No. 5 of 2003)
- d) Water Resources Management Act (No. 11 of 2009)
- e) Guidelines from NEMC and OSHA Tanzania

9. Stakeholder Engagement

CHANG RAY MINING INVESTMENT LIMITED commits to continuous stakeholder consultation including:

- a) **Local communities**
- b) **District Environmental Officer**
- c) **Village governments**
- d) **Local miners' associations**

Regular **public meetings** will be held to share environmental performance and collect feedback.

10. Reporting and Review

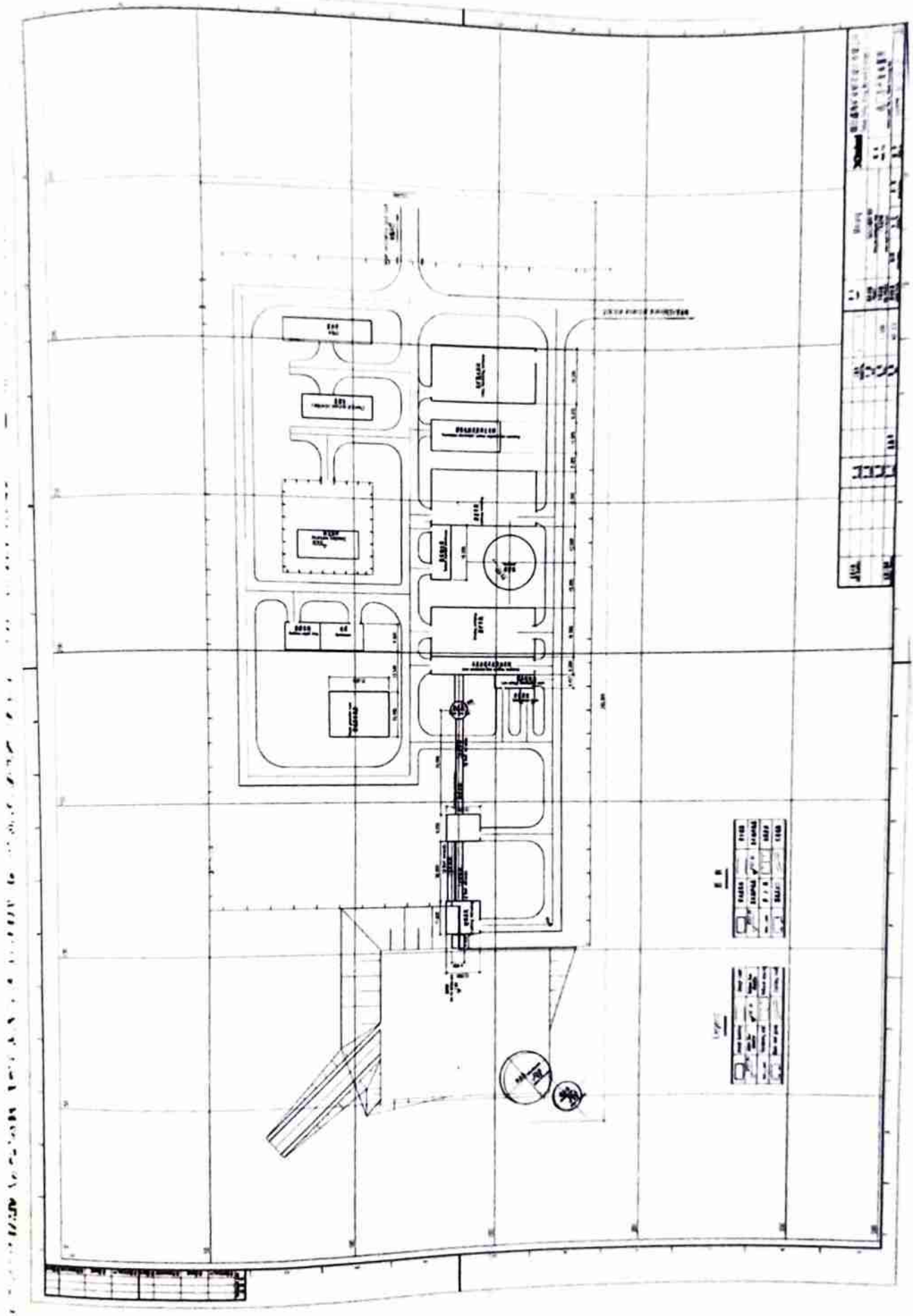
- a) **Quarterly environmental reports** will be submitted to NEMC
- b) **Annual Environmental Audit** will be conducted by an approved consultant
- c) The EMP will be **reviewed annually** and updated as necessary

11. Budget for EMP Implementation (Summary)

Activity	Estimated Cost (TZS)
a) Waste management systems	150,000,000
b) Water treatment & monitoring	100,000,000
c) Air and noise control measures	80,000,000
d) PPE and safety equipment	50,000,000
e) Training and awareness programs	30,000,000
f) Environmental auditing	20,000,000
Total EMP Budget	430,000,000

12. Conclusion

CHANG RAY MINING INVESTMENT LIMITED recognizes the importance of environmental protection in mining and mineral processing. This EMP provides a framework to ensure that environmental, health, and social impacts are minimized, operations are safe, and legal compliance is maintained. The company is committed to continuous improvement and partnership with local stakeholders.



Appendix E

MANAGEMENT TEAM PROFILE
OF CHANG RAY MINING INVESTMENT LIMITED

1. GENERAL MANAGER / PROJECT DIRECTOR

Responsibilities: overall strategic planning, government relations coordination, funding and compliance management.

Requirements:

He has more than 10 years of experience in mining project management in Africa and is familiar with Tanzanian mining regulations (e.g. Mining Law, Localization Policy).

Fluent in English (Swahili plus points) and good at communicating with agencies such as the Ministry of Mines, the Environmental Protection Agency and others.

Those with backgrounds in Chinese / South African / Australian mining companies are preferred (as Tanzania is a common source of foreign capital).

2. MANAGER OF A MINING PLANT

Responsibilities: Responsible for CIP / CIL process optimization and production target achievement.

Requirements:

Metallurgical or mineral processing background, more than 5 years practical experience in carbon paste plant (300 T / d scale above).

Be familiar with the improvement of gold mine recovery rates, cyanide management, and tailings processing (Tanzania has strict environmental requirements).

3. MINE OPERATIONS MANAGER

Responsibilities: To coordinate the balance between mining and mill supply to ensure stable ore quality.

Requirements:

Familiarize yourself with open / underground gold mining and learn about common types of gold mining in Tanzania (such as green rock belt deposits).

Mining planning and cost control capabilities are available (plans need to be in place for unstable local electricity and fuel supplies).

4. MAINTENANCE ENGINEER RESPONSIBILITIES: EQUIPMENT MAINTENANCE, LOCALIZED SPARE PARTS PROCUREMENT.

Requirements:

Expertise in the management of key equipment such as ball mills and absorption electrolytic systems.

Familiar with the maintenance system of Chinese equipment (e.g. CITIC Heavy Industries) or South African brands (e.g. Metso).

KEY LOCALIZATION JOBS

1. COMMUNITY RELATIONS MANAGER

Duties: Deal with land compensation, community disputes (community sensitivities in Tanzania).

Requirements:

Native, fluent in Swahili and tribal culture, with CSR experience.

2. COMPLIANCE AND LEGAL OFFICER

Responsibilities: Ensure compliance with Tanzania's amendments to the Mining Act (e.g. local ownership requirements for 2022), taxes (e. g. 5% gold mine export tax).

Requirements:

Background at a local law firm or consulting firm.

3. SUPPORT DEPARTMENT

Controller of Finance: Familiar with Tanzanian foreign exchange control and transfer pricing rules.

Safety Manager: ISO 45001 certified to address mine security challenges (hiring a professional security company in some areas).

Environmental Manager: Ensure tailings pond complies with International Cyanide Management Code (ICMC).

4. TEAMWORK ESSENTIALS

Cultural integration: Chinese executives need to adapt to the pace of work in Tanzania (e.g., there are many holidays and long decision chains).

Training system: Send local employees to South Africa / China regularly for training (such as CIP technical courses in Changsha Mining and Metallurgy Institute).

Digital tools: Introduction of mining management software such as MineRP to address remote monitoring needs.

5. RISK WARNING

Policy risk: 15% of the budget is set aside for possible regulatory changes (such as mandatory local refining of gold mines in 2021).

Supply chain redundancy: key pharmaceuticals (e.g. activated charcoal, cyanide) require dual suppliers (China + South Africa).

SIGNED and SEALED at SONGWE this 20th day of September 2025 by **HU CHANGQING** who is the Director(s) of **CHANG RAY MINING INVESTMENT LIMITED (MINING COMPANY)** a Processing plant located at Mbangala Village in Mbangala ward.

SIGNATURE and/or SEAL OF THE COMPANY

Signature: 胡长青
Name: HU CHANGQING

Designation: DIRECTOR

BEFORE ME:

Signature: [Signature]
Name: [Signature]

Designation: COMMISSIONER FOR OATHS AND NOTARY PUBLIC

Date: 20th day of September 2025

