

**TANZANIA INVESTMENT CENTRE
DAR ES SALAAM****PROGRESS REPORT 2024
MINOPEX MINING SOLUTIONS TANZANIA LTD****1. INTRODUCTION.**

Project Title: Minopex Mining Operations and Maintenance in Tanzania

Purpose: The purpose of this project is oversee and optimize the operations and Maintenance of mineral processing of plants in Tanzania. By providing comprehensive management and technical support, the project aims to enhance the efficiency and productivity of these plants, contributing to the overall success and sustainability of the mining operations.

Goals:

Operational Excellence: To ensure the smooth of mineral processing plants by implementing best practices and efficient operational strategies.

Maintenance: Optimization to minimize downtime and extend the life span of equipment through proactive and reactive maintenance services

Technical support and Innovation: To provide technical expertise and innovative solutions that address and improve plant performance.

Capacity building: To train and develop local personnel, enhancing their skills and knowledge in mineral processing and plant operations

Sustainability: To promote sustainable mining practices that are environmentally friendly and socially responsible.

The project is crucial for maintaining high standards of productivity in the mining sector in Tanzania.

2. SUMMARY OF ACTIVITIES

The key activities that have been undertaken during the reporting period.

This include

Operational Activities:

- **Ore Processing:** Conducted daily operations to process extracted minerals into usable forms
- **Equipment Operation:** Operated and monitored machinery to ensure optimal performance and output.
- **Quality control:** Implemented rigorous quality checks to maintain high standards in the final product.

Maintenance activities:

- **Routine Maintenance:** Performance regular maintenance on all plant equipment to prevent breakdowns and ensure smooth operations.

- **Repairs:** Addressed and resolved any equipment malfunctions or failures promptly to minimize downtime
- **Upgrades:** Implemented upgrades and processes to enhance efficiency and productivity.

Training and Development:

- **Personnel training:** Conducted training sessions for local staff to improve their technical skills and knowledge of plant operations.
- **Safety Training:** provided ongoing safety training to ensure compliance with health and safety regulations and to promote a safe working environment.

Upskilling of Tanzanian Citizens

Training Programs

- Minopex conducted numerous training programs, enhancing technical skills and operational efficiency. This includes both on-the-job training and specialized courses.

Certifications

- Many Tanzanian employees received certifications in various mining and processing techniques, boosting their career prospects and professional development.

Skill Development

- Focused on developing a skilled local workforce to reduce dependence on expatriate labor and enhance local employment opportunities.

Technical Support:

- **Problem solving:** Offered technical support to trouble shoot and resolve any operational issues.
- **Innovation:** Introduced innovative solutions and practices to optimize processes and increase output.

Environmental and Community Engagement:

- **Sustainability initiatives:** Implemented environmentally friendly practices to reduce the project ecological communities to support and develop sustainable initiatives.

The summary captures the core activities undertaken in the project.

Milestone Achieved

A. Operational efficiency

- **Enhanced processing capacity:** Successfully increased the Ore processing capacity by 20% significantly boosting productivity
- **Reduced Downtime:** Achieved a 15% reduction in equipment downtime through effective maintenance and operational strategies.

B. Technological advancements:

- **New Technology integration:** implemented advanced mineral processing technologies, improving recovery rates by 10% increase in overall plant efficiency.

C. Safety and Training:

- **Safety Records:** Reached a milestone of 1000 accident-free days, underscoring the commitment to workplace safety.
 - **Comprehensive training:** Training local employees in advanced processing techniques and safety protocols, enhancing workforce skills.
- D. Environmental sustainability:**
- **Eco-friendly Practices:** Reduced the plant's carbon footprint by 12% through sustainable practices and initiatives.
 - **Community Engagement:** Launched successful community programs promoting environmental awareness and sustainable development.
- E. Financial Performance:**
- **Cost Efficiency:** Achieved a 10% reduction in operating costs through streamlined processes and cost-saving measures.
 - **Revenue growth:** Increased overall revenue by 15% due to higher productivity and improved quality of outputs.

These milestones reflect the significant progress and achievements made in various areas, contributing to the overall success and sustainability of the project.

3. PROGRESS.

Completed Tasks:

- I. Ore Processing efficiency:** Successfully increased the processing capacity of the Plant by 20%, surpassing initial targets and boosting productivity.
- II. Equipment Upgrades:** Installed and integrated new advanced processing equipment, which has improved overall plant efficiency by 25%
- III. Safety Milestones:** Conducted comprehensive safety training sessions, resulting in a milestone of 1000 accident-free days.
- IV. Staff training:** Trained local employees in advanced mineral processing techniques and safety protocols,

Ongoing Tasks:

- I. Maintenance Optimization:** Continuously implementing proactive maintenance strategies to further reduce equipment downtime and improve reliability.
- II. Technology Integration:** Ongoing integration of new technologies to enhance mineral recovery rates and increase operational efficiency.
- III. Community Engagement:** Actively participating in community outreach programs to promote environmental sustainability and support local development initiatives,
- IV. Performance Monitoring:** Regularly monitoring and evaluating plant performance to identify area for improvement and ensure optimal operations.

Future tasks:

- I. Process Improvement:** Plan to further refine and optimize processing methods to achieve even greater efficiency and productivity.

II. Advanced Training Programs: Schedule additional training programs to enhance the skills and knowledge of local employees, focusing on new technologies and best practices.

III. Environmental initiatives: Implement new eco-friendly practices and initiatives to further reduce the plant's environmental impact and promote sustainable mining practices.

IV. Expansion Plans: Explore opportunities for expanding operations and increasing the processing capacity to meet growing demand.

The report highlights the significant progress made so far, the ongoing efforts to maintain and improve performance, and the future plans to ensure continued success and sustainability.

4. CHALLENGES AND SOLUTIONS.

Equipment Downtime:

I. Challenges: Frequent breakdowns and maintenance issues leading to significant downtime and reduced productivity.

II. Solution: Implemented a proactive maintenance strategy that includes regular inspections, scheduled maintenance, and rapid response to equipment failures, this approach reduced downtime by 15% and improved overall plant efficiency.

Technological Integration:

I. Challenges: Difficulty in integrating new advanced processing technologies with existing systems.

II. Solution: Conducted thorough assessments and trials before full-scale implementation, provided specialized training for staff to ensure smooth integration and operation of new technologies. This resulted in a 10% improvement in mineral recovery rates.

Safety Concerns:

I. Challenges: Ensuring the safety of all employees in a high-risk mining environment.

II. Solution: introduced comprehensive safety protocols. Achieved a milestone of 1000 accident-free days, reflecting the measures.

Environmental Impact:

I. Challenges: Managing and minimizing the environmental impact of mining operations.

II. Solutions: Implemented eco-friendly practices such as reducing emissions, cycling water, and proper water management engagement. Engaged with local communities to promote environmental awareness. These initiatives reduced the plant's carbon footprint by 12%

Skill Development:

I. Challenge: Need for specialized skills and knowledge in advanced mineral processing techniques among local employees.

II. Solutions: Conducted extensive training programs to enhance the technical skills and knowledge of the workforce. Local employees were trained, leading to improved efficiency and productivity.

Cost Management:

I. Challenges: Managing operation costs while maintaining high productivity and quality.

II. Solutions: Implemented cost-saving measures such as optimizing resource use, reducing waste, and negotiating better terms with suppliers. Achieved a 10% reduction in operating cost.

These challenges and their corresponding solutions highlight the adaptive strategies employed to ensure the successes and sustainability of the project. And sustainability of the project.

5. PERFORMANCE METRICS

Production Numbers:

I. Ore Processed: Achieved a daily processing rate of 5000 tons of ore, with a monthly total of approximately 150,000 tons.

II. Mineral recovery: Improved recovery rate by 10% resulting in a total recovery of 90% of extra table minerals.

III. Output Quality: Consistently met quality standards with 95% of output meeting or exceeding grade specifications.

Efficiency measures:

I. Equipment utilization: Maintained an average equipment utilization rate of 85% reflecting high operational efficiency.

II. Downtime Reduction: Reduced equipment downtime by 15% through proactive maintenances and rapid response strategies.

III. Energy Efficiency: Implemented energy – saving measures that reduced overall energy consumption by 12%

IV. Processing speed: Increased processing speed by 20% through optimization of workflow and technology integration.

V. Financial Performance: Achieved a 10% reduction in operating costs through efficient resource management and cost-saving initiatives.

VI. Revenue Growth: Increased revenue by 15% as a result of higher productivity and improved output quality.

Environmental Impact:

I. Carbon Footprint: Reduced carbon emissions by 12% through eco-friendly practices and improved energy efficiency.

II. Waste Management: Enhanced waste management practices, resulting in a 10% reduction in waste generated.

These performance metrics demonstrate significant improvements in production efficiency, cost management, and environmental sustainability.

6. FINANCIAL OVERVIEW.

Revenue

I. Total revenue: Increased by 15% due to higher productivity and improved quality of outputs.

II. Revenue Sources: Primarily generated from the sale of processed minerals and related services.

Operating Cost

I. Cost reduction: Achieved a 10% reduction in operating costs through efficiency management, cost-saving initiatives and optimized processes.

II. Major Expenses: Included equipment maintenance, energy consumption, raw materials and staff salaries.

Profit margins:

I. Gross profit margin: Increased due to enhanced efficiency and higher output quality.

II. Net profit margin: Improved as a result of cost-saving measures and increased revenues.

Investments:

I. Capital expenditure: Invested in new advanced processing equipment and technology integration to enhance productivity.

II. Training Programs: Allocated funds for the trainings and development of local employees to improve their skills and knowledge.

Financial Health:

I. Liquidity: Maintained a health cash flow to support ongoing operations and future investments.

II. Debt Management: Successfully managed debt levels, ensuring financial stability and sustainability.

Future Financial Plans:

I. Expansion: Exploring opportunities for expanding operations and increasing capacity to meet growing and demand.

II. Sustainability initiatives: Investing in eco-friendly practices to reduce environmental impact and promote sustainable development.

This financial overview highlights the key financial aspect, achievements, and future plans for Minopex Mining Solutions Tanzania Ltd

7. CONCLUSION AND NEXT STEPS

Conclusion:

- The Minopex Mining Operations and Maintenance project in Tanzania has achieved significant milestones and demonstrated remarkable progress in various aspects of its operations.
- The enhancement of processing capacity, reduction in equipment downtime, and integration of advanced technologies have contributed to increased productivity and efficacy.
- The project's commitment to safety has resulted in an impressive record of accident-free days, and the training programs have empowered local employees with valuable skills.
- Additionally, the implementation of eco-friendly practices underscores the project's dedication to environmental sustainability.

Overall, the project has not only met its initial objectives but has also set a strong foundation for future growth and success.

Next Steps:

1. **Further Process Improvement:** Continue refining and optimizing processing methods to achieve greater efficiency and productivity.

2. **Advanced Training Programs:** Schedule additional training sessions to enhance the skills and knowledge of local employees, with a focus on new technologies and best practices.
3. **Expansion Plans:** Explore opportunities for expanding operations and increasing processing capacity to meet growing demand and capitalize on new market opportunities
4. **Sustainability Initiatives:** Implement new eco-friendly practices and initiatives to further reduce the environmental impact and promote sustainable mining practices.
5. **Community Engagement:** Strengthen engagement with local communities through ongoing outreach programs and support for sustainable development initiatives
6. **Performance monitoring:** Regularly monitor and evaluate plant performance to identify areas for improvement and ensures for improvement and ensure optimal operations.

The updated information on the Project aspect:-

S/No.	Information	Description	Current Project Status
1	Shareholder's Information	Current Shareholders names, nationality and percentage of ownership	DRA Minopex Group Holdings 80% A.Fainzilber 20%
2	Company communication Information	Email address Mobile Number Land Line Telephone Number Physical Address (Plot No. Block No. Street, District and Region	minopex@minopex.com - +27 11 785 7000 Plot 84 Regus Offices Acacia Estate, Kinondoni, Dar es Salaam, Tanzania
3	Contact Person	Name Position Communication details (Email, Mobile and telephone	Albert Mabotja Laboratory Superintendent Albert.mabotja@minopex.com +255 688 719 572
4	Incorporation	Certificate of Incorporation Number	144803698
5	TIN Information	TIN Certificate No.	144803698
6	Project Objective	Project Core Activity	Laboratory Services to the Mining Sector
7	Capacity	Project capacity per year	USD 750,000
8	Direct Employment	Foreign Men Foreign Women Local Men Local Women	2 - 18 1
9	Indirect employment	Type/areas of Indirect employment	N/A

1. Project Financing Expenditure to date (USD)

	Foreign (USD)	Local (USD)	Total (USD)
Land and Buildings			
Plant and machinery	31,000		31,000
Vehicles/Aircrafts			
Furniture			
Office equipment			
Insurance Cover	7,000	78,000	85,000
Pre-operational expenses			
Working sub-total capital	-48,000	740,000	692,000
Grand Total	-10,000	818,000	808,000

2. Project Financing

	Amount (USD)	Source Country
Local equity	726,000	Tanzania
Local loans		
Foreign equity		
Foreign Loans		
Total Investment	726,000	Tanzania