

# Future Flotation Expansion Financial Overview

## Strategic Secondary Recovery Expansion Opportunity

Silobela, Zimbabwe

This document outlines the conceptual long-term expansion potential of integrating a secondary flotation recovery circuit into the proposed 200TPD Gravity + Ball Mill + Carbon-in-Pulp (CIP) Gold Recovery Processing Plant. The purpose of the future flotation system is to further recover ultra-fine gold particles, sulphide-associated gold, and partially locked mineralized material that may remain within processed tailings after primary recovery operations. The proposed flotation expansion is positioned as a future metallurgical optimization opportunity intended to improve overall plant recovery efficiency, extend long-term profitability, and maximize value extraction from historical and continuously generated tailings material.

## How the Secondary Recovery Process Works

The flotation recovery process would begin after primary Gravity + CIP processing operations. Instead of discarding final processed sands, retained tailings material would be accumulated within designated tailings storage areas for future secondary treatment. The flotation circuit would then: reprocess retained tailings material, recover ultra-fine gold particles suspended within slimes and mud, target sulphide-associated gold not fully liberated during initial milling, and improve total metallurgical recovery efficiency. This creates an opportunity to generate additional revenue from material previously regarded as fully processed waste.

## Conceptual Expansion CAPEX Estimate

Item	Estimated Cost (USD)
Flotation Tanks & Cells	\$95,000
Conditioning Tanks	\$22,000
Air Blower System	\$18,000
Slurry Pumps & Piping	\$25,000
Electrical & Control System	\$28,000
Structural Steel & Platforms	\$24,000
Installation & Commissioning	\$35,000
Tailings Retreatment Infrastructure	\$38,000
Contingency Allocation	\$40,000
Estimated Total Expansion Cost	\$325,000

## Estimated Operating Costs

Operating Category	Estimated Cost Per Month
Power & Electricity	\$8,000
Reagents & Chemicals	\$6,500
Labor	\$4,500
Maintenance	\$2,800

Water & Consumables	\$1,700
Security & Miscellaneous	\$1,500
Estimated Monthly Operating Cost	\$25,000

## Illustrative Secondary Recovery Potential

Based on preliminary fire assay evaluations conducted on selected regional tailings material, residual gold values remain present within historically processed sands. Illustrative assumptions: Historical Tailings Volume: 77,400 Tons Residual Grade: 0.33 g/t Au Illustrative Secondary Recovery Efficiency: 35% Estimated Gold Price: USD \$145 per gram Under these conceptual assumptions, secondary flotation retreatment may provide additional recoverable gold value exceeding USD \$1 million over the long-term operational life of the project.

## Strategic Advantages

Improves overall plant recovery efficiency  
 Creates additional long-term revenue streams  
 Enhances value extraction from historical tailings  
 Supports future metallurgical optimization  
 Reduces mineral losses within final tailings discharge  
 Strengthens long-term operational sustainability  
 Supports scalable future plant expansion  
 Maximizes utilization of existing feedstock supply

## Technical Disclaimer

All financial estimates, recovery assumptions, operational costs, and production illustrations contained within this document are preliminary conceptual estimates prepared for strategic investor discussion purposes only. Actual recovery performance, operating costs, expansion requirements, metallurgical performance, and economic outcomes may vary depending on engineering design, ore characteristics, future metallurgical testing, market conditions, and operational performance.