



## FORM B: CAPITAL APPLICATION

**PROJECT NAME:** Nyakabingo CRMs Customisation  
**PROJECT LEADER:** Juliette Confiance Kabatesi      **CONS. ASS. NO.:** \_\_\_\_\_  
**DATE:** 10/11/2024      **CA NO.:** \_\_\_\_\_

A	PROJECT DESCRIPTION
<p>This project aims to acquire customized Certified Reference Materials (CRMs) tailored for low, medium, and high-grade ore samples, specifically designed to support grade control, production exports and ore resource projects. These CRMs will enable accurate calibration and validation of instruments across varied concentration levels, ensuring precision in grade control analyses and resource estimations. Customized to reflect the specific compositions encountered in our operations, these CRMs will provide consistency and reliability in analytical results, which is crucial for optimizing production, resource planning, and regulatory compliance.</p>	

B	MOTIVATION
<p>The motivation behind this project to acquire customized Certified Reference Materials (CRMs) lies in the critical need for precision and consistency in our laboratory analyses, which directly impact grade control and ore resource projects. By ensuring access to CRMs specifically tailored to low, medium, and high-grade ore samples, we can significantly enhance the reliability of our analytical data. This is essential for accurate grade control, optimizing production efficiency, and making informed resource estimations.</p> <p>Moreover, using customized CRMs that closely match the composition of our ores improves instrument calibration, leading to more precise measurements and consistent quality control. This not only minimizes errors but also strengthens our compliance with industry standards and regulatory requirements. In the long term, reliable data derived from these CRMs supports better resource management, cost efficiency, and improved decision-making in mining operations.</p>	

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C	COSTING SELECTED OPTION
Low grades	
Medium grades	
High grades	
<b>TOTAL COSTS INCLUDING CONTINGENCIES</b>	<b>504198.24 ZAR</b>
<b>BUDGET IN 5-YEAR PLAN</b>	<b>504198.24ZAR</b>
<b>VARIANCE</b>	

D	RISK ASSESSMENT
<p>The absence of certified reference materials (CRMs) poses significant risks, as it can lead to unreliable data across various critical operations. This unreliability may result in inaccurate reserve estimations, suboptimal processing plant performance, and incorrect ore grade assessments during grade control projects. Furthermore, it can hinder effective production grade monitoring, increasing the likelihood of high-penalty elements in exported materials. Additionally, unreliable data can lead to misguided decisions in mine development, ultimately affecting operational efficiency and profitability.</p>	

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E	PROJECT SCHEDULE
Project schedule below is dependent on the approval of CA	
- CRMs customization period will be 14weeks upon sample delivery and PO	

F	COMMENTS
HOD	 14/11/2024
GENERAL MANAGER/GM	MUSAHLUKGA I  

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GROUP FINANCE CONTROLLER	<i>[Signature]</i> 24/11/2024	
GROUP LEGAL COUNSEL & COMPLAINE OFFICER	<i>[Signature]</i> 26/11/2024	
GROUP SUPPLY CHAIN MANAGER	<i>Jeome Sande</i>	29/11/2024
COO	<i>Shane Ryan</i>	30/11/2024
CFO	<i>[Signature]</i>	9/12/2024

G APPROVAL	
CEO	
BOARD	

NOTE: attach additional quotes or supporting documents if necessary

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**COST AVOIDANCE AND VALUE GENERATED FOR CRMs CUSTOMIZATION PROJECT (Nyakabingo)**

ITEM	2025	2026	2027	Explanations
Single time investment for 3years		\$29,000		
<b>Savings once CRMs are customised</b>				
<b>Enhanced production control leads to a savings</b>	\$10,000	\$10,000	\$10,000	This will support to plant optimization and grade control, with an estimated cost saving of \$10,000, based on the assumption that \$100 is spent per sample analyzed by ASL.
<b>Reduction in CRM purchases saving</b>	\$17,600	\$17,600	\$17,600	We typically purchase CRMs and aim to enhance the quality control process by incorporating CRMs into our samples weekly. It is estimated that 25 kg will be purchased annually at a cost of approximately \$17,600
<b>Operational efficiencies</b>	\$10,000	\$10,000	\$10,000	Poor geological decisions results in significant losses for the company, which are difficult to quantify, but a minimum estimated loss of \$10,000 is estimated.
<b>Avoidance of rework</b>	\$3,000	\$3,000	\$3,000	Unreliable data led to repetition of work and it was estimated to 3000\$
<b>Annual costs</b>	\$40,600	\$40,600	\$40,600	
<b>Total savings</b>		\$121,800		
<b>Payback period (years)</b>		0.714285714		
<b>Total value generated</b>		\$92,800		
<b>Return On Investment (%)</b>		320		