

REPUBLIC OF RWANDA



SOUTHERN PROVINCE
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Gikonko, 13th June 2025

PROJECT PROPOSAL

Smart Tank Water Solution for Clean Drinking Water at GS GIKONKO CATHOLIQUE

Submitted by: GS Gikonko Catholique

Location: Gikonko Sector, Gisagara District, Southern Province, Rwanda

Date: June 2025

1. Background and Problem Statement

GS Gikonko Catholique is a leading rural school located in the Southern Province of Rwanda, within Gisagara District. The school currently serves 1,540 students, and is nationally recognized for its strong academic performance and outstanding achievements in sports, especially girls' basketball.

However, the school is facing a major challenge related to access to clean drinking water. At present, students drink rainwater collected from rooftops and stored in school water tanks, which is not treated or purified. This exposes the students and staff to serious health risks, including waterborne diseases such as intestinal worms, diarrhea, and typhoid. These illnesses negatively impact learning by increasing absenteeism and weakening students' health and performance.

To address this, the school proposes the installation of a solar-powered Smart Tank system with integrated UV filtration. This modern solution will ensure continuous access to safe and clean drinking water.



2. Project Objective

- To provide safe, clean, and reliable drinking water for all students and staff.
- To significantly reduce waterborne diseases through effective water purification.
- To improve student health, hygiene, and academic concentration.
- To promote sustainability through the use of solar-powered technology.

3. Proposed Solution: Smart Tank System

The Smart Tank is a reliable water purification system designed for rural settings. It:

- Collects and stores rainwater.
- Purifies water using UV filtration to remove bacteria and viruses.
- Delivers clean water via taps installed around the school.

Uses solar energy or low electricity to operate efficiently.

It is a long-term solution for ensuring water safety and hygiene in schools.

4. Expected Benefits

- Clean and safe drinking water for 1,540 students and staff.
- Improved health and fewer cases of illness linked to contaminated water.
- Better school attendance and academic performance.
- A model of sustainable development for other rural schools.

5. Budget Estimate

Items	Cost(FRW)
1. Smart Tank Unit	1,100,000
2. UV Water Filter	400,000
3. Tap (Robinet)	30,000
4. Pipes (6 units × 10,000 RWF)	60,000
5. Connectors and Fittings	20,000
6. Tiles (Amakaro)	60,000
7. Cement (Isima)	20,000
8. Protective Shelter (Inzu)	200,000
9. Transport	60,000
10. Taxes and Fees	450,000
11. Labor and Installation	100,000
TOTAL ESTIMATED COST	2,500,000 RWF

6. Conclusion

Access to safe drinking water is not only essential for health, but also for the dignity and development of every child. Installing a Smart Tank at GS Gikonko Catholique will greatly improve student well-being, reduce disease, and enhance learning conditions. We therefore seek support from our partners and stakeholders to bring this vision to reality.

Prepared by Father Eustache MUNYESHYAKA

Head Teacher of GS Gikonko Catholique

