



WASH GLOBAL GRANT PROJECT PROPOSAL

PROJECT NAME: Provision of improved WASH Facilities in a Health Providers' Training Institution using Green Energy.

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PROJECT LOCATION: Aba, Nigeria.

AREA OF FOCUS: • Water, Sanitation and Hygiene (WASH)
• Protecting the Environment.



STATEMENT OF PROBLEM:

The Water, Sanitation, and Hygiene (WASH) conditions at Abia State College of Health Sciences and Management

Technology in Aba are severely compromised. Dilapidated toilets in hostels, offices, and other facilities are mostly non-functional, leading to open defecation and unsanitary conditions, posing health risks to students and staff. The poor sanitation is worsened by inadequate maintenance and the absence of proper waste management systems, resulting in declining hygiene standards across the campus.

Water supply is also a critical issue, affecting the daily lives of over 1,500 students, faculty, and staff. The college currently relies on four borehole pumps that require rehabilitation to meet the water needs of this large population. However, unreliable power supply frequently disrupts the functioning of these pumps, leading to inconsistent water availability for drinking and sanitation.

To address this urgent issue, the club has proposed several solutions, including adding another borehole, rehabilitating faulty pumps, installing reliable solar pumps, and constructing a 15-room tariffed toilet. Solar pumps, powered by renewable solar energy, offer a sustainable solution to ensure a consistent water supply independent of the unreliable power grid. This not only provides continuous water but also aligns with sustainable energy practices, reducing the college's carbon footprint and operational costs over time.

Constructing a modern 15-room tariffed toilet will significantly improve sanitation facilities on campus. This well-maintained restroom facility will alleviate strain on existing restrooms, reduce health risks, and enhance overall hygiene standards. It will offer students and staff clean, functional toilets, fostering a healthier and more conducive learning environment.

By implementing solar pumps and constructing new toilet facilities, the college can mitigate current water supply and sanitation challenges, providing dependable, environmentally friendly solutions. This initiative will greatly enhance the quality of life for students and staff, minimizing water-related disruptions and contributing to the overall sustainability of college infrastructure.

PROJECT SCOPE: This project will involve the followings:

1. Rehabilitation and upgrading of four existing water boreholes that will generate safe drinking water for the staff and students of the college powered by renewable green energy source
2. Installation of water treatment and purification systems to ensure safe drinking water quality
3. Installation of overhead water storage tanks for effective and steady water supply systems and water fetching points at students' hostels, lecture blocks and other offices for easy water access.
4. Renovate and rehabilitate old and dilapidated toilet facilities at the student hostels, lecture blocks, offices, demonstration clinic, maternity wards including servicing of various soakaway pits and septic tanks.
5. Provide a 15-rooms modern tariffed public toilet block for staff, students and host community with additional borehole to supply steady water.
6. Provide practical based training on safe WASH-Practices for staff and students and trainings on WASH facilities operations, management and maintenance.
7. Institute WASH-Facilities Care and Maintenance Committee of the college to ensure project sustainability.

COMMUNITY ASSESSMENT:

A multi-month community assessment survey was completed on March 5, 2024. The team, comprising Akamnonu Azubuike, Ezech Linus, Madu Stanley, Ejike Uchenna, and other club members, met multiple times with community leaders, WASH professionals in the benefitting communities, students, Rotaract club members at the college, and other faculty members, conducted interviews, held focus groups, and performed a SWOT analysis, all of which informed the top priority needs addressed in the final project design. The state ministry of health also provided vital information during the community assessment.

Key Findings of the Community Assessment:

1. **Critical Need for Water Supply:** There is an urgent need for a reliable water supply for drinking and other uses due to inadequate water sources and poor power supply to pump water.
2. **Ensuring Steady Power Supply:** A reliable power supply is essential to maintain constant availability of water.
3. **Addressing Sanitation and Hygiene Issues:** Improvements in sanitation and hygiene within the college premises are necessary to eliminate open defecation.
4. **Community Engagement:** Major stakeholders have expressed a readiness to be involved in the project planning, design, and implementation.
5. **Sustainability of Interventions:** Community members believe the project interventions are sustainable with proper training, especially with the implementation of renewable energy sources for water supply.
6. **Suggested Additional Measures for Sustainability:** Respondents recommended regular maintenance of infrastructure, community education programs, and continued stakeholder involvement to ensure long-term sustainability.

COMMUNITY AND ROTARY CLUB INVOLVEMENT:

This project is motivated by the community and club's desire to meet the World Health Organization (WHO) millennium goals for WASH in health care facilities. Both the Club and the host community are strongly committed to the project's successful completion to reduce disease incidence in the their community. In their demonstrating of this commitment, the host community has been part of community assessment by providing vital information, providing space for the additional 15-room tartiffed public toilet and assured the protection of all equipment and resources used throughout the project lifecycle. The Club on the other hand will contribute by providing members experienced in WASH projects, including those with classification in WASH, to be part of the College Water, Sanitation and Hygiene Committee responsible for the project's sustainability plan. Their determination is evident, as the project aims to eliminate water-related diseases in the community.

PROJECT OBJECTIVES:

1. The project will provide safe drinking water according to regulatory authorities standard and equally solve the perennial problem of acute water supply shortage in the college
2. Reduce open defecation and indiscriminate dumping of wastes
3. Provide conducive learning and teaching environment
4. Improve WASH best-Practices and maintenance of WASH Facilities
5. Reduce WASH-related diseases and their associated deaths
6. Promotes environmental friendliness of the college through reduction in air and land pollution
7. Enhance capacity of staff on WASH facilities operations, management and maintenance
8. Enhance capacity of staff on Water, Sanitation and Hygiene monitoring and evaluation (M&E).
9. Promote policies, advocacy and regulations that support WASH infrastructure and practice at local and National levels.
10. Foster community engagement by involving community members in WASH initiatives to ensure Sustainability and local ownership of improvement in healthcare institution.

SUSTAINABILITY/MAINTENANCE:

To ensure the sustainability of our WASH project, we've established partnerships with local WASH professionals, benefiting communities, state and national WASH advocates, and international organizations like the Water, Sanitation, and Hygiene Rotary Action Group (WASH-RAG). This collaborative approach aims to align the project with existing WASH intervention programs and leverage evidence-based interventions such as staff and students capacity building and trainings. Engaging community leaders and stakeholders ensures local ownership and long-term sustainability.

Integrating WASH facilities and infrastructure with reliable and renewable sources of power ensures a steady water supply and an improved healthcare environment.

As part of the project's sustainability plans, our Club's WASH Project Committee will conduct quarterly visits to the college for at least one year after project completion and handover. These visits are to ensure that sustainability plans are being followed and implemented. We will establish a WASH-Facilities Care and Maintenance Committee to oversee the care and maintenance of the installed WASH facilities and to ensure the college maintains an environmentally friendly status over the long term.

This committee will work in partnership with the institution's management to ensure that the maintenance costs for the WASH facilities are included in the annual budget and that funds are allocated specifically for this purpose. The institution will engage a private cleaning and WASH facilities maintenance service to handle these tasks. Additionally, the new 15-room modern toilet building will be available to the host community at reduced rates.

The practical training provided to beneficiaries aims to enhance their capacity to manage and maintain the facilities. This training ensures that the infrastructure is well-handled and promotes ongoing local ownership and maintenance.

DETAILED PROJECT BUDGET

S/N	BUDGET ITEM	COST IN NGN	COST IN USD
1.	Rehabilitation and renovation of 4 Nos. existing water borehole using solar energy	9,562,500	6,830
2	Renovation and rehabilitation of 55 Nos. of dilapidated toilets in the female and male hostels, classroom blocks, offices, library building including repair of septic tanks, soak away	36,670,000	26,192.86
3	Provision of 15rooms tariffed public toilet and water borehole with stanchion, water storage tank using solar power generation	19,865,000	14,189.29
4	Intensive practical-based wash training focusing on Capacity building WASH infrastructure operation, management and maintenance, monitoring and evaluation. WASH-best practice	14,600,000	10,428.56
5	Installation of appropriate energy capacity to power sumo pump	12,870,00	9,192. 86
6	Installation of 2 nos. 12m high overhead steel stanchions, 8 nos. UPVC water water storage tanks, 2 nos water purification systems, water distribution and fetching points in the female and male hostels.	16,785,, 500	11,990.36
7	Add 5% contingency	5,517,625	3,941.6
8	Total Budget	115,870,125	82,764.37

FUNDING COMMITMENT

Rotary Club of Eziana -Sunrise, Aba: USD 3,000.00

District 9142: We shall apply for DDF of USD10, 000.00

We are seeking for international and funding partners to assist our club in this impactful project.