



**PHI BETA SIGMA FRATERNITY, INC. - SIGMA MU SIGMA CHAPTER
PROJECT TITLE: WATER FOR LIFE BOREHOLE INITIATIVE
PROVISION OF POTABLE WATER PROJECT FOR AFROKROTIA
COMMUNITY**

DISTRICT : AKWAMUFIE
REGION: : EASTERN
SUBMITTED BY : SIGMA MU SIGMA (GHANA SIGMAS)
PROJECT BUDGET : GH¢ 20,000 (\$4,000 USD)
DURATION : ONE (1) Month

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1.0 PROJECT DESCRIPTION

Sigma Mu Sigma (SMS) Chapter of Phi Beta Sigma Fraternity is partnered with TEAM CSR, a registered nonprofit or Non Governmental Organization (NGO) in Ghana in good standing, for the implementation of a project in support of their Rural Water Supply in the form of Boreholes to respond to the lack of clean water and related health issues in remote areas of Ghana, West Africa.

At a cost of \$4,000 USD per Borehole, the chapter proposes the building of a borehole to inaugurate the beginning of a Phi Beta Sigma chapter in the country, with an impactful sustainable project that will galvanize the communities, churches, government and other stakeholders as to the purpose and the community service agenda of our fraternity. The chapter has already successfully raised \$1,500 and is seeking matching funds to meet our goal.

SMS is positioned to help bring awareness to clean water as a humanitarian issue that allows our new chapter to immediately begin long term service to the people of Ghana, with every borehole that bears the name of Sigma. With the vast wealth of experience amongst the Charter Members working and leading the effort in NYC and on the ground, along with the backing of Kappa Beta Sigma chapter, we're confident that we can execute a new and actively working Borehole by the weekend of our Chartering Ceremony. We're organizing a range of media and community support to participate in our activities to make sure the needed impact is achieved and widely recognized in the various communities of Ghana from day one.

2.0 Targeted Community: AFROKROTIA

Afrokrotia is located in the Eastern Region, a part of the Akwamufie township. It's a township with over 500 people, surrounded by other smaller townships. The people in this small community are mostly farmers and fishery workers at the nearby Volta lake. Many of the town's inhabitants fetch water from nearby rivers and streams that are tributaries of the Volta Lake. These streams are heavily polluted with industrial waste as well as contaminants. To access clean water, the residents of Afrokrotia make the 7km walk to Akwamufie and other areas with pipe water. The journey to these points hinder the children from attending classes on time and doing their homework. By default, it also forces many in the community to fetch their water from the contaminated streams causing waterborne diseases, such as cholera, diarrhea, typhoid fever, etc..

The locals do not have access to public toilets serving their community. This situation forces most people to use the nearby bushes and refuse dumps as places of convenience; this unsanitary behavior affects the general hygiene of the entire community.

The major concern however is the lack of potable drinking water for the community which has prompted an overflow of patients at the local clinic for illnesses such as cholera and diarrhea which can be fatal for children.

The community has approached the government and local corporate bodies for aid however, these entities have not been able to provide the needed assistance. Given the lack of clean drinking water and the strained sanitation system, there are severe public health concerns in Ghana contributing to 70% of diseases nationally, according to the World Health Organization.

The government and the few water based NGOs that exist are burdened with requests for boreholes. These entities cannot meet the needs of these requests, in particular those in the rural areas. Therefore, opportunities exist for organizations such as Sigma Mu Sigma Chapter to provide some level of relief providing boreholes.

2.1 Justification

The Millennium Development Goals (MDGs) represent a global partnership that has grown from the commitments and targets established at the world summits of the 1990s. Responding to the world's main development challenges and to the calls of civil society, the MDGs promote poverty reduction, education, maternal health, gender equality, and aim at combating child mortality, AIDS and other diseases.

Set from the year 2015, the MDGs are an agreed set of goals that can be achieved if all actors work together and do their part. Poor countries have pledged to govern better, and invest in their people through health care and education. Rich countries have pledged to support them, through aid, debt relief, and fairer trade.

This project is in response to MDGs 1, 2, 3, 4 & 5.

3.0 Problem Objectives

- 3.1** To provide mechanized borehole water to over 500 people in the village of Afrokrotia in the Akwamufie District to provide its residents with access to clean and safe drinking water and the opportunity for a better and healthier life.

4.0 Project Activities

The scope of work includes the following:

- i. Assist communities to understand all project rules and their role in implementation and sustaining the sub-projects
- ii. Assist communities to collect and analyze community base line information
- iii. Carry out feasibility studies in the communities to provide information on the type of water facilities that currently exist in the community
- iv. Provide assistance to communities to enable them to;
 - ◆ Mobilize funds for capital and initial operations & management costs
 - ◆ Apply to the District Assembly for recognition
 - ◆ Select the preferred water supply systems and possible sites for their construction.
- v. Through our strategic partnerships, we're able to offer training of community members in leadership skills and Facility management including:
 - ◆ Hygiene and sanitation
 - ◆ Record keeping including all TA visits
 - ◆ Financial accounting, collection and management
 - ◆ Bookkeeping
 - ◆ Procurement of goods and services
 - ◆ Participatory monitoring and evaluation
 - ◆ Reporting
 - ◆ Pump caretaker training

- vi. Training of well caretaker in the following areas:
 - ◆ Preventive maintenance of the upper part of the pump
 - ◆ Greasing
 - ◆ Tightening of bolts and nuts
 - ◆ Cleaning of pump head
 - ◆ Identify fault/ minor repairs
 - ◆ Cleaning the pump pads and surrounding
 - ◆ Recording faults on record card
 - ◆ Report to area mechanic, buying spares

5.0 Expected Outcomes and Benefits for the Project

- ◆ Improved health sanitation conditions among the people of Afrokrotia over the course of a minimum of the next 10 years
- ◆ Potable drinking water provided for Afrokrotia
- ◆ Access to safe, clean, drinking water (for the first time in most cases)
- ◆ Fulfilling the community service objectives of PBS internationally

6.0 Project Monitoring and Evaluation Plan

The success of this project lies on the use of effective monitoring and evaluation tools. This project will employ process monitoring. A core team will be formed comprising local leaders and District Assembly officials.

Monitoring reports will be produced and submitted to the chapter. The monitoring report is expected to measure project process-impact (quantity and quality), review implementation strategies as indicated in the proposal and make possible recommendations. Monitoring will also be carried out as a continuous process by project staff headed by the project co-coordinator to ensure judicious use of resources and reporting on progress and outcomes.

An internal evaluation will be carried out on our behalf by TEAM CSR Ghana to ascertain the effects and impact of the project on the target groups (especially participating children) in Ghana.

7.0 Impact of Project

- ◆ Promote economic growth and reduce poverty
- ◆ Eliminate total water borne diseases in the community
- ◆ Improvement in community health situation

8.0 Sustainability

A community sustainability plan will be developed based on the specific issues and situations that are discovered from working with this community. Furthermore, the Community leadership will be assisted to help them make informed decisions based on the choices available in terms of sustainable health care and the education of their children.

Finally, a baseline survey will be conducted of the community residents after one year to serve as a guide for how the chapter manages things for the future impact of the project. Moreover, the additional exposure will help with our recruitment efforts as well, given the increased positive media exposure and awareness of SMS.

9.0 ESTIMATED BUDGET FOR MECHANIZED BOREHOLE

No.	Activity	Input	Unit cost (GH¢)	Freq	Total (GH¢)	Comment
1	Mobilization and start up consultation for pre-launch	Fuel cost	100	1	100	
		Accommodation	300		300	
2	Provision of borehole for potable water	Drilling cost	10,000	1	10,000	Community Water & Sanitation Agency Standard
		Pump	3,000	1	3000	
		Operational tools	1,000	1	1000	
		Labor	1,000	1	1000	
3	Training of local committee	Training cost	20	4	80	
		Fuel	50	2	100	
4	Mechanization of water	Poly tank	1,600	1	1,600	
		Tiling/labor	1,200		1,200	
		Branding services	420	1	420	
5	Monitoring, review meeting and evaluation of project	Fuel	100	1	100	
		Communication	100	1	100	
6	Project Management fee	Oversight and Execution	1,000	1	1,000	
	Grand Total (GH¢)				20,000	\$4,000.00