

Project Title: Provision of Potable Water Supply to 13,000 Rural Dwellers in Nigeria.

Brief Information on Project Implementing Organisation: Dako Foundation for Rural Healthcare and Education (DFRHCE).

Though in existence since 2008, Dako Foundation For Rural Healthcare and Education (**DFRHCE**) was incorporated by the Corporate Affairs Commission (CAC) as a Non-Governmental Organization (Non-profit and non-political) under the Nigerian Companies and Allied Matters Act, No. 1 of 1990 on July 30, 2014. Before its incorporation, (**DFRHCE**) Dako Foundation For Rural Healthcare and Education has been delivering on its aims and objectives which include among others:

- To complement government efforts in providing quality education and good health care services to rural dwellers with dignity.
- Work singularly or in collaboration with partner organizations and individuals to deliver on our aims and objectives.
- Creating opportunities for the less privileged through the provision of needed assistance.
- Empowering the youths, through seminars and workshops on good behaviors and wealth creation.
- Providing quality education to rural dwellers and communities in Nigeria.
- Provision of educational facilities and materials to Institutions of learning in the rural communities in Nigeria.
- Provision and support for sporting activities in schools and rural communities as a means of keeping youths away from crime.
- Empowering the youth in rural communities in meaningful trade options and gainful employment.
- Creating peaceful co-existence among the members of the society.

Website: www.dakofoundation.org

Problem Statement: In Nigeria, access to safe and regular water supply is a major challenge especially as more than half (62.6%) of its people live in poverty. Report from the Water and Sanitation Monitoring Platform shows that water coverage rate in Nigeria is amongst the lowest in the world. Clean and regular water supply has not kept pace with the rapid rate of population increase. Water scarcity, poor water quality and inadequate sanitation negatively impact food security, livelihood choices and educational opportunities for poor families and water borne diseases such as diarrheal, cholera, typhoid, hookworm, etc.. This situation is particularly worse in underserved rural communities where most of the children die due to preventable diseases associated with inadequate water supply, sanitation and hygiene. This situation is very ripe in these our index communities.

Community Needs / Assets: Regular and potable water supply is the basic priority need for the communities where project would be implemented. This priority need has been identified through series of involvement of DFRHCE with the communities in implementing several other health projects in the region. Towards this project, DFRHCE sank an industrial borehole which turn out to be an artesian water source which flows out (from about 400feet)

on its own without pumping. This currently serve as the major source of potable water for these index communities and beyond. People come from these communities and beyond for domestic and general use. These index communities were selected from most hard to reach communities in the local government areas based on the high number of people the project is expected to benefit and the lingering inability of the communities to access regular potable water supply. People going to farms and marketplaces pass through these index communities and can have access to the project water sources.

Rational of Project

The nature of the soil and geographical terrain of the beneficiary communities often lead to excessive cost of sinking boreholes in each community. This high cost often discourages sponsors including local government officials from embarking on such water projects. With this in mind, this project aims to solve this problem by utilising the existing water source from the primary community to build a big reservoir (10000L) at the primary community from which water would be distributed through underground pipes to other surrounding neighbouring communities thereby reaching an estimated 13,000 people.

Project Overview:

The inter communities water storage and distribution project is expected to serve 7 communities in total; one primary community serving as the source of distribution and 6 other neighbouring communities through extension by providing potable water supply for about 13,000 people.

This project hopes to further extend the artesian water project by DFRHCE which already exists at the primary community (Iyerekhu Community). A 40 feet (ft) high scaffolding would be built at the artesian water source in order to carry 10,000Litres of water reservoir from where water would be distributed through underground pipes to six (6) neighbouring communities at a total distance of 5kilometres from the reservoir.

The choice of 40ft high structure is to allow sufficient pressure for water to flow from the reservoir to neighbouring communities reaching strategic locations where water would be readily accessible to a vast majority.

Goal: The overall project goal is part of the effort in achieving the United Nations Sustainable Development Goal 6 (SGD6): that everyone on earth should have access to safe and affordable drinking water by the year 2030.

Aims and Objective:

13,000 rural dwellers (from 7 communities) are provided with regular availability of potable water every day all year round.

A member from each beneficiary communities are trained in maintaining local security and sustainability of the implemented project.

Project Location: Etsako West Local Government Area, Edo State, Nigeria.

Community Names: Iyerekhu, Ughiekha, Amana, Igbira Settlement, Imadatse, Egbogio and Ogojima communities.

Project Duration: 6 Months

Reach: Direct and Indirect Reach: This project will provide regular potable water for about 13,000 rural dwellers in seven (7) communities in total. Serving about 6000 people in its primary community and another 7000 residents through its water extension from the source to neighbouring communities.

Sustainability Plan

1. Project ownership by the community – As part of the sustainability plan, DFRHCE will work with key stakeholders at the various communities in maintaining collective and adequate local security for the implemented project at the community level.
2. Routine monitoring visits would be carried out quarterly by DFRHCE to beneficiary communities for first 5 years.

BUDGET

DAKO FOUNDATION FOR RURAL HEALTHCARE AND EDUCATION (DFRHCE)				
Budget for the provision of Potable water supply to 13,000 Rural dwellers in Nigeria.				
Project Materials	Quantity (QTY)	Amount /QTY (Local Currency)	Total Amount (Local Currency)	TOTAL (USD)/ 350
Materials for Construction of 40 feet high scaffolding				-
4 inch thick Steel Rods for scaffolding stand(18ft each)	40	15,000	600,000	\$ 1,714.29
5"8 Rod and Under lay Plate	15	5000	75,000	\$ 214.29
Other supporting rods and storage tank ladder)	35	4500	157,500	\$ 450.00
Bags of Cement for 10 Taps Platforms and Scaffolding basement	50	3000	150,000	\$ 428.57
Trip of Sand	3	60,000	180,000	\$ 514.29
Trip of Gravel	4	70,000	280,000	\$ 800.00
Overhead Tank (10,000 Litres)	1	2,700,000	2,700,000	\$ 7,714.29
Public Taps	10	9,500	95,000	\$ 271.43
Horus Pressure Pipes (5KM) and to 10 Taps. (19685ft=6km)	19685	150	2,952,750	\$ 8,436.43
Pumping Machines	2	45,000	90,000	\$ 257.14
Solar Power source				\$ -
310 WAX Solar Panel	26	112,000	2,912,000	\$ 8,320.00

Solar Panel Rack	16	6,500	104,000	\$ 297.14
8MM Cables of 150 yards	150	750	112,500	\$ 321.43
Inverter Machine	1	250,000	250,000	\$ 714.29
12V 200AH Amaron Battery	8	150,000	1,200,000	\$ 3,428.57
Charger Controller	2	120,500	241,000	\$ 688.57
Labour				\$ -
Electrical wiring and Solar Power Installation	-	190,500	190,500	\$ 544.29
Welders for Construction of 10,000L water storage scaffolding	-	450,000	450,000	\$ 1,285.71
Digging -fixing of 5KM Pipes	-	1,450,000	1,450,000	\$ 4,142.86
Plumbing for 5km pipes and 10 Taps	-	1,650,000	1,650,000	\$ 4,714.29
Builders (Bricklayers) for Scaffolding and 10 taps platforms	-	350,000	350,000	\$ 1,000.00
Site Preparation and Maintenance	-	120,000	120,000	\$ 342.86
3 weeks Sustainability Trainings for 7 Community Volunteers	-	150,000	150,000	\$ 428.57
Others				\$ -
Transportation of Materials	-	210,000	210,000	\$ 600.00
Project Supervision	-	500,000	500,000	\$ 1,428.57
Security for personnel and materials for project duration	-	300,000	300,000	\$ 857.14
Miscellaneous	-	350,000	350,000	\$ 1,000.00
Post Project Assessment				
5 years post project Monitoring and Evaluation Plan	-	891,012	891,012	\$ 2,545.75
TOTAL			17,820,250	\$ 53,460.75