Project. Water and sanitation for schools in Cabo Delgado

Country; Mozambique

Period: December 2009 – December 2011

Total budget: 24.500 Euro **Number of facilities**: 78 Latrines

26 rainwater harvesting systems

100 sifon filters

3900 Children awareness training on Hygiene etc

No of people reached: 3900 children

Local organization. Grupo de Saneamentio de Bilibiza

Org. in Netherlands; Arrakis

Formulated by: Jan de Jongh & Henk Holtslag

Context

A primary school is a "centre par excellence" where future adults should learn about basic practical knowledge, like on safe water, health, sanitation, etc. In general it is very worthwhile to invest in hardware like latrines and water facilities and educate the pupils in awareness on the need for hygiene the importance of water for health and income. Within Qirimbas Park in Cabo Delgado Northern Mozambique, there are 26 very poor developed schools which lack basic conditions latrines and water. Arrakis who works in this region via other activities started, with the help of funds from individuals to build 9 latrines at 4 Schools. These latrines are already serving a total of 624 pupils. Other schools are very interested and have asked for similar facilities. The provisions given to the schools with this project are the first steps of a transformation process of these schools resulting in educating their pupils to become "developers for their own region where they come from" rather then educate them for jobs, which are not available anyway. This education method has been developed by FUNDAEC (www.fundaec.org) and has been rewarded by the club of Budapest to be "most considerable revolution of education systems in the 20 th century". This means that the pupils should learn to use local resources in a sustainable way. Several positive projects and programmes in the region are ongoing, from which knowledge can be derived. An example is the concept of Farmers Clubs. These are being developed by ADPP, financially supported by USDA, EU and FACT. Farmers are trained to do conservation farming, growing vegetables with rope pump irrigation for own use and for the local market. The school pupils can assist the farmers in the FC's common demo fields and learn in a playful way the basics of conservation farming and become familiar with the use and maintenance of the water technologies at the same time.

Objectives

- To proved access to safe drinking water and sanitation at 26 schools in Cabo Delgado.
- To develop these schools as outstanding example schools in the long term.

Results

Safe drinking water, sanitation and hygiene education at a cost of around
 € 950 per school (€ 6.5 per child)

Scope of work Step wise approach

One by one latrines will be build in these schools one for Boys and one for Girls In a number of schools rainwater harvesting systems will be constructed consisting of roof plates, rainwater gutters, and a low cost storage tank of wire cement with a content of 4 Cubic meters. Since development of the schools along the lines sketched above requires time and funding, a step wise approach is followed,

consisting of clearly defined sub-project activities with its own required budget. When sufficient funds have been found for one school activities will start and if more funds are coming the school will start.

All investments will be combined with awareness raising actions under school pupils, done by the teachers, of which many have been educated at EPF.

A method to use "comic books" for this is being applied.

Budget

Total Budget	€ 24.500 -
1 sifon filter per 40 children; total 100 filters incl, spares + training	€ 1.100
The budget for rainwater catchment for 26 schools is	€ 21.450
(tin roof, gutters, storage tank of 4 cub meter)	
school on average is €825	
Cost of water supply with rooftop catchment	
The total budget for 26 schools for 78 latrines is	€ 1.950
The total budget for 26 cohools for 70 letrings is	€ 1.950
Cost for 3 latrines / school is on average (slabs + reinforced holes)	€ 75

Implementing organisation

The NGO "Grupo de Saneamento de Bilibiza", (see Annex) is fabricating latrines and cement bricks, in improving the schools in the region, in a step by step process. Arrakis has started to support this local organization, by providing funds and giving Technical Assistance.

It is well known to them that latrines, one for girls and one for boys will contribute to less dropouts. Especially more girls will attend the school, having their own latrine now. (compared to having only the open bush before)



Pupils from the primary school 10 de Maio, with the school building at the background

Photo: Jan de Jongh, Arrakis, June 2009

PROGRESS

Result of the first subproject

September 2009:

9 latrines () have been build and installed at 4 Schools. (individuals have provided the funds to Arrakis). These 9 latrines are already serving in total 624 pupils. See table below.

Name of village	Nr of teachers	Nr of latrines built	Nr of latrines needed	Nr of pupils
Nicuita	4	3	5	272
Nanua	3	2	3	150
1o de Maio	3	2	2	102
25 de Setembro	2	2	2	100
Total		9	12	624

SUPPORTING PHOTO'S

Primary school of 25 de Setembro: Number of children: 100 1- 5th grade, 2 teachers

Building (6x3 m.) very poor thatched roof.





The schoolbuilding

Head teacher with students (saterday)



The two latrines being installed



Typical example of a "Comic"

School: Primero de Maio; Improvements with latrines





The primary school building

The blackboard and school banks







The latrine is well kept.

RAIN WATER CATCHMENT, Improving roofs with corrugated plates and rain water gutters plus low cost tanks to collect rainwater



An example of a house build for a Farmers Club chief. School buildings could be similar with a tin roof, rainwater gutters and a storage tank.



Training in use of siphon filter In Itoculo Mozambique

RAIN WATER CATCHMENT SYSTEM:

Tin roof, rainwater gutters, collection tank of 4 cub meter .

Materials needed:

Tin roof: MTN 10.000 or € 260
Gutters plus tank
Part of labour costs
Total ` MTN 15.000 or € 365
MTN 32.600 or € 825

ANNEX: 2

Registration form of Grupo de Saneamento de Bilibiza".

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	REPUBLICA DE MOÇAMBIQUE
	PROVINCIA DE CABO DELGADO GOVERNO DO DISTRITO DE QUISSANGA
	SECRETARIA DISTRITAL
	DESPACHO
Um grupo	de cidadãos da Associação "GRULO DE SANEAMENTO DE BILIBITA"
requereu	a Administração do Distrito de <u>VISAN GA</u> , o seu
reconhecim	nento como pessoa jurídica, juntando ao pedido os respectivos estatutos de
constituição	0.
Apreciados	s os documentos submetidos, verifica-se que se trata de uma associação
DE SAN	(EAHENIO DO ME, o, que prossegue fins lícitos, não lucrativos,
determinad	los e legalmente possíveis e que o acto de constituição e os estatutos da mesma
cumprem o	escopo e os requisitos exigidos por Lei nada obstando ao seu reconhecimento.
Os Órgãos	sociais da referida associação, eleitos por período de 02 anos renováveis
uma	única vez, são:
BACH	IR AFONSO, HORÁCIO AMBRÓSSO, FALOME JASSINE,
	NOUE JASSINE, JODITO MARTINS, JONITO FUCENIO,
	EL Julia A CHISSE Moises, VAHACURA FLAINE,
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