

B24 KEK192

**MINISTRY OF WATER DEVELOPMENT
KENYAN-GERMAN WATER TEAM**

PROJECT COMPONENT :

KILIFI WATER AND SANITATION PROJECT

824 - KEK192-10265



Choice of Toilets

Project Background

An appraisal mission was held in December 1985 to look into the Kilifi District needs for water supply and sanitation. They found a large number of endemic diseases, the larger part being excreta and water related diseases. The mission outlined the importance of sanitation in combatting this type of diseases. Therefore the project has incorporated the following interventions:

- (1) adequate clean water supply
- (2) sanitation (proper excreta disposal) and
- (3) hygiene education.

On the basis of the mission the Kilifi Water and Sanitation Project was set-up. The project commenced in 1988 in the Ministry of Water Development and with the involvement of other Ministries as required.

Project Description

Kilifi Water and Sanitation Project is a District based project with the aim to provide sustainable water supplies to a large population who are not yet served by water

supplies. It will also take the opportunity to introduce appropriate technology for both water supply and sanitation into the District. It intends to introduce methods of implementation, and operation and maintenance which are consistent with the District Focus Policy incorporating strong elements of community participation.

Overall Goal

To improve the health of the community in the project area.

Project Purpose

To improve the water supply, sanitation and educate the community so that they can sustain the system(s) in the selected zones of the project area.

Results/Outputs

- 1) Community aware of hygiene and sanitation and applying recommended practices
- 2) Community has adequate and reliable water supplies
- 3) Water facilities operated and maintained by the community
- 4) Project team strengthened

Main Activities

- Training of Trainers
- Training of Community Workers from the Community
- Training School teachers in Hygiene
- Training community and primary school pupils in hygiene
- Encourage Community in construction of VIP's
- Design water supplies on request by communities
- Construct together with the community the pipeline
- Construction of various water technologies as according to needs and possibilities
- Train trainers and committees in Operation and Maintenance
- Support the water committees
- Train the GoK personnel in community skills



Digging of pipeline

KIWASAP Office and Training facilities

During the year 1988 an office was build on the Kilifi District Water Engineer's compound. Besides offices for the officers involved in KIWASAP a conference room was included which is being used as a training facility. As in the case with teacher training, outside facilities are made use of like the Kilifi Institute of Agriculture or the school for the deaf in Kilifi.

A number of different types of toilets have been build on the compound to show the various possibilities and the use of different materials. A place to make V.I.P. slabs, soil stabilised blocks and fibre cement tiles was constructed on the compound. Curing facilities are also present.

The project has eight cars to be able to carry out its field activities, also motorbikes are being used by the officers to give greater mobility. The Community Workers have bicycles which is the easiest mode of transport and enable them to cover large distances in their work areas.

The majority of the workers are personnel from MoWD who are also being trained as the need arises.



Training of Trainees in VIP-Construction

Training

KIWASAP is training a variety of persons from within the allocated project area. Women groups, water committees and Public Health Technicians are being trained in Hygiene and Sanitation, O&M of pipes and kiosks and on how to run the committees. A training curricula was set up. The first step in making a training manual in hygiene, sanitation, the production of sanitation slabs and the construction of the VIP-Latrine are well under the way.

Activities

The KIWASAP staff are nowadays able to train trainers and community alike. The volume is low by necessity but by steadily continuing the activities and by improving the quality of the teaching materials and skills of the trainers, the project will have a multiplying effect within Kilifi District.



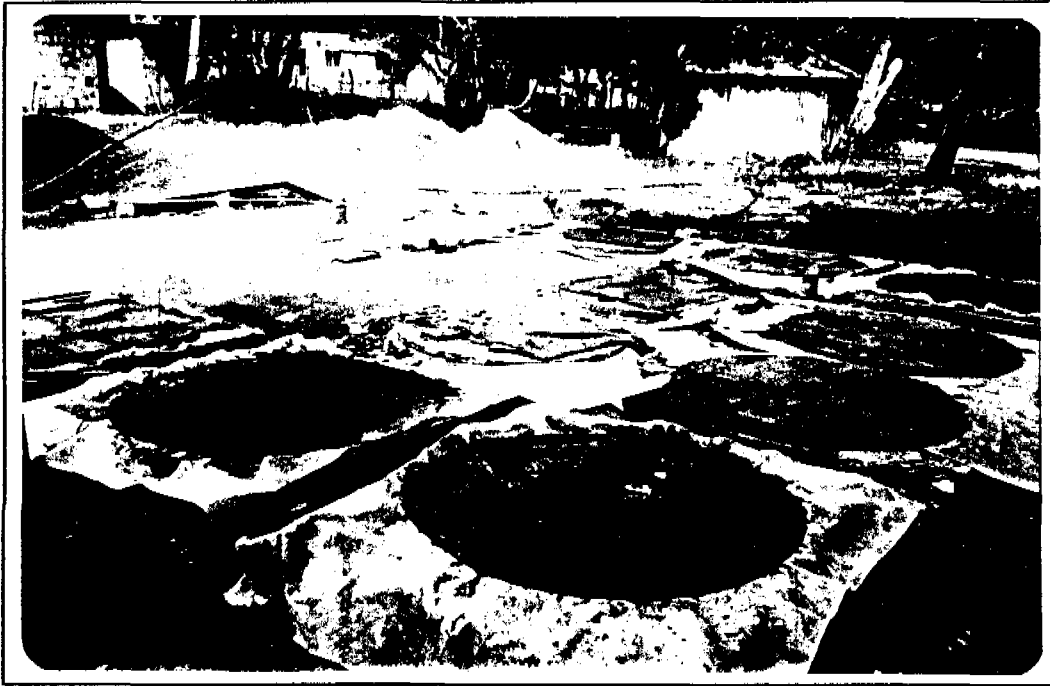
Women being trained in pipe repairs

Achievements

Up to date (Aug 1992), 24 km of pipeline has been built with a total of 20 kiosks placed. Members of the women groups running the kiosks have been trained to maintain their own kiosk as well as pipeline.

Fifteen community mobilizers have been trained to help to educate the community in hygiene, the proper use of water and to make use of latrines. To ensure that the community construct durable toilets and to reduce their expenses, KIWASAP subsidizes the slab, the vent pipe and some cement. So far 160 slabs have been sold.

Various handouts have been developed and printed to help the teaching in hygiene and sanitation. The handouts are also being used in the schools and during Agricultural shows in Mombasa and Malindi to spread the idea of latrines by educating the people.



Making of Sanitation Slabs

Various artisans and technicians have been trained in the slab and latrine construction as being used in the KIWASAP compound.

A number of ferro-cement tanks have been build in Bamba as containers for rain water harvesting systems.

Stabilised blocks made from soil and cement are being introduced in the area as a alternative to other building methods.

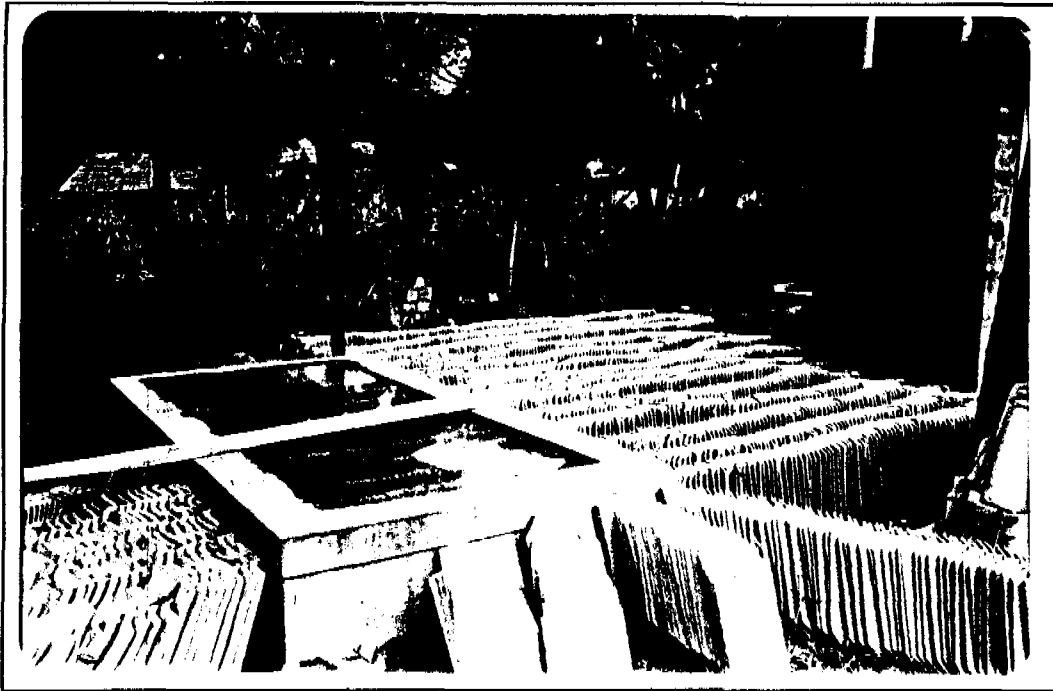
Women groups are focused for hygiene education and other activities within the targeted areas.

Nine pans have been build in the Bamba area and more will be build to decrease the walking distance for water collection in the area. Soil conservation measures and water catchment protection are being introduced to the community as well as ways to look after the pans themselves.

Teachers from 14 schools have been trained in hygiene education in the last year. This year an additional 13 schools are targeted, of which the headmasters and deputies

have been educated already, and 26 teachers will follow in a more lengthy workshop.

The first draft of a Trainer's Reference Manual for hygiene and VIP-latrine construction is finished and will be tested during the next half year.



Making of Fiber-Sand-Cement Roof tiles



Making of Ferro-cement Water Filter



Meeting with Water Group



Sanitation play by Primary school pupils