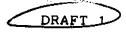


COMMUNITY TRAINING SYLLABUS

PUMP ATTENDANTS TRAINING SEMINARS.



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### HAND PUMP ATTENDANTS' SEMINAR:

Participants of this seminar comprise of:

- Women chosen by and from the community using a particular hand pump well.
- Married with children and therefore are permanent members of the community.
- Respectful women and therefore are capable of passing on the acquired knowledge and skills to the rest of the community.
- Preferably literate.

#### Training needs of pump attendants:

- (a) Skills in basic operation and maintenance of hand pumps.
- (b) Knowledge of pump parts, common faults and remedies.
- (c) Prices of pump parts and, availability of spares and steps in maintenance/ repair of hand pumps.
- (d) Hygiene education which includes

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- i) disease transmission routes and
- ii) the role of women and children in hygiene education.
- (e) Planing duty roster for well surrounding cleanliness and report on pump performance.

## Aims and Objectives of the Pump Attendant's Seminar

The propose of the Hand Pump attendants training is therefore to:-

- Provide the necessary technical knowledge to the direct hand pump users (women).
- Provide sufficient skills and tools to users to do minor maintenance and repair of the hand pump with knowledge of pump parts and costs.
- Create a low cost maintenance system whereby the users themselves can operate and maintain their own facility.
- Encourage hygiene and sanitation education to women to become well caretakers.
- Encourage preventive maintenance by establishing a hand pump performance monitoring/inspection sheet.

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## TOPICSTHEMES FOR PUMP ATTENDANTS SEMINAR:

	Topic / Theme	Facilitators
	General Awareness:	
1	Problems Identification, Analysis and solving.	Training Team
2	Water and hygiene education for mothers and children.	PHT / CHW
3	Aims and objectives of the operation and maintenance department of KFWWSP.	O and M (Wpts) Wpts Trainer
	<u>Technical Awareness</u> :	
4	Hand pump parts and their mode of function.	Water Point Skills Trainer
5	Tools and hand pump parts necessary each year.	Trained pump attend- ants.
6	Pump assembling, dismantling and re-assembling.	Trained pump attend- ants.
7	Common faults, fault finding and their remedies.	Trained pump attend- ants.
8	Hand pump performance report and duty roster establishment for sanitary upkeep.	Trained pump attend- ants.
	Economic Awareness:	
9	Funds collection and record keeping as well as committee responsibilities.	Training team
10	Economic developments by the well site and appropriate fencing.	Training team

#### **GENERAL AWARENESS**

## Problems Identification, Analysis and Solving:

Participants to be able to:-

- (a) Identify and analyze major problems within the community.
- (b) Lay strategy in solving problems.
- (c) Demonstrate their skill in solving community problems.

#### 2. Water and Hygiene Education for Mothers and Children:

Participants to be able to:-

- (a) Explain the major causes of world sickness and diseases with particular reference to water.
- (b) Explain how lack of, or improper use of, sanitary facilities can be a source of disease transmission and practical preventive measures.
- (c) Explain the importance of hygiene education to women and children in curbing disease transmission and general sanitary practices at the water points and at home.

## 3. Aims and Objectives of the Operation and Maintenance Department Of KFWWSP:-

Participants to be able to:-

- (a) Explain the main sectors of the KFWWSP during the Present implementation phase.
  - (b) Define the main objectives of the operation and maintenance department in relation to hand pump repair.
  - (c) Explain the maintenance procedure of the hand pumps and the importance of preventive maintenance.
  - (d) Discuss advantages and disadvantages of the users repairing their own hand pumps.

## TECHNICAL AWARENESS:

#### 4. Hand Pump Parts and Their Mode of Function:

Participants to be able to:-

- (a) Name particular hand pump parts for a given hand pump.
- (b) Demonstrate the mode of working of the hand pump and proper

use of the hand pump.

(c) List the major parts of a given hand pump and their approximate cost.

#### 5. Tools and Hand Pump Parts Necessary All the Year Round:

Participants to be able to:-

- (a) Name and draw the tools that are required in the operation and maintenance of the hand pump.
- (b) List the hand pump parts that the community requires ready each year and the faults they may correct.
- (c) Discuss the availability and the proper storage of the tools and spares for faster operation and maintenance of hand pumps.

## 6. Hand Pump Assembling, Dismantling and Re-assembling:

Participants to be able to:-

- (a) Practice dismantling and assembling the hand pump first in a larger group and then (individually) smaller groups.
- (b) Determine the number of stages/steps in dismantling and assembling the hand pump.

#### 7. Common Faults, Fault Finding and their Remedies:

Participants to be able to:-

- (a) Detect common faults on hand pumps.
- (b) Practice rectification of the faults.
- (c) List the common faults on hand pumps.
- (d) Discuss the requisite preventive maintenance to be practiced by the well committee in particular and the consumers in general.

## 8. <u>Hand Pump Performance Report and Duty Roster Establishment</u> for Sanitary Upkeep:

Participants to be able to:-

- (a) Fill in the hand pump performance report correctly.
- (b) Discuss the bad Sanitary conditions that need to be

routinely checked at water points.

- (c) Prepare a duty roster for good sanitation by the well site.
- (d) Demonstrate proper sanitary care for the water point.

### **ECONOMIC AWARENESS:**

## 9. FundaCollection and Records Keeping:

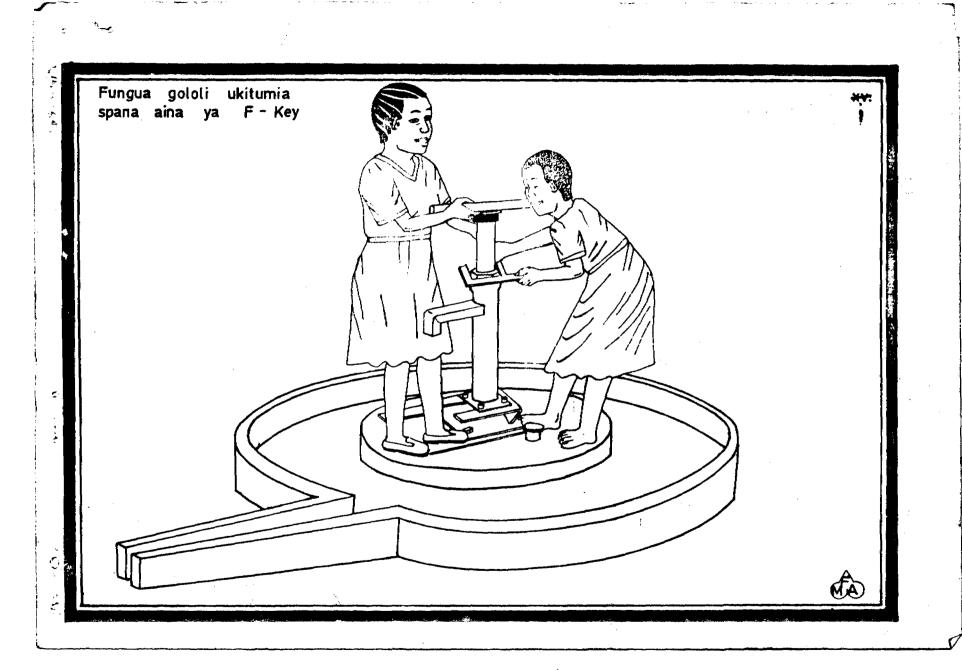
Participants to be able to:-

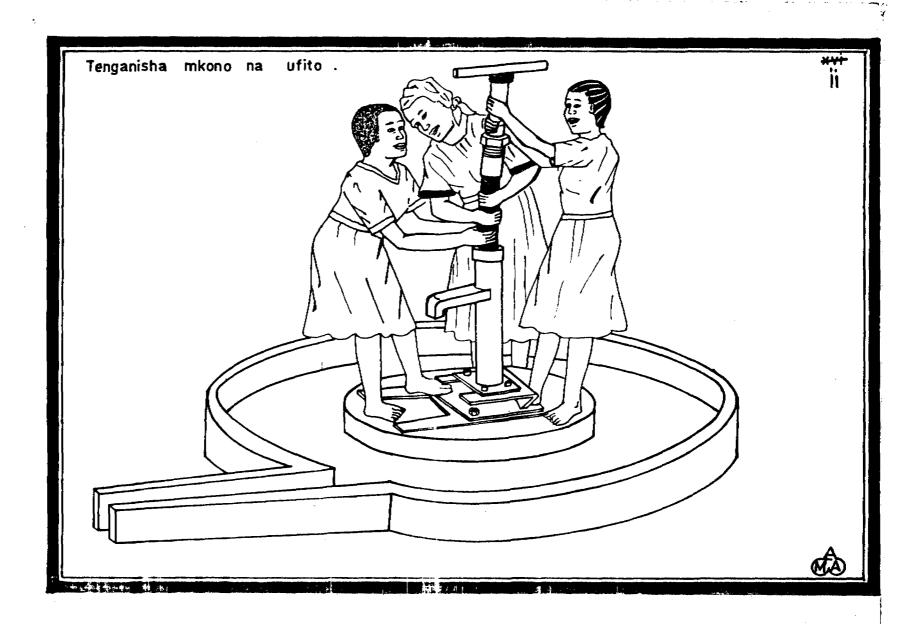
- (a) Describe the various roles of the water point committee with special reference to the pump attendant.
- (b) Name the various methods of funds collection and importance of funds collection.
- (c) Explain the control measures to be practifed in ascertaining safety of funds and the necessary types of records.
- (d) Discuss the importance of group registration in funds collection.
- 10. <u>Economic Development By The Well Site and Appropriate Fencing:</u>

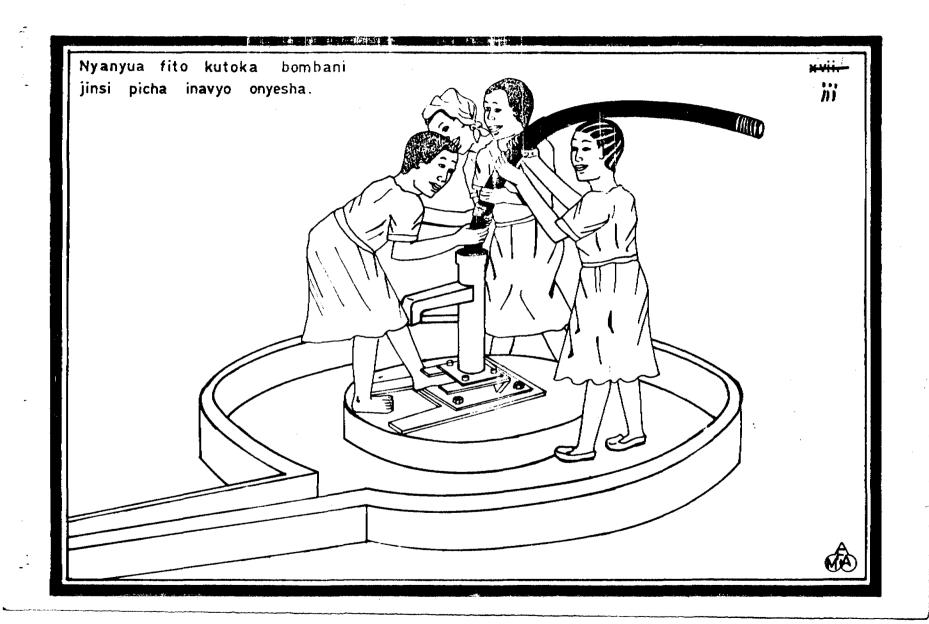
Participants to be able to:-

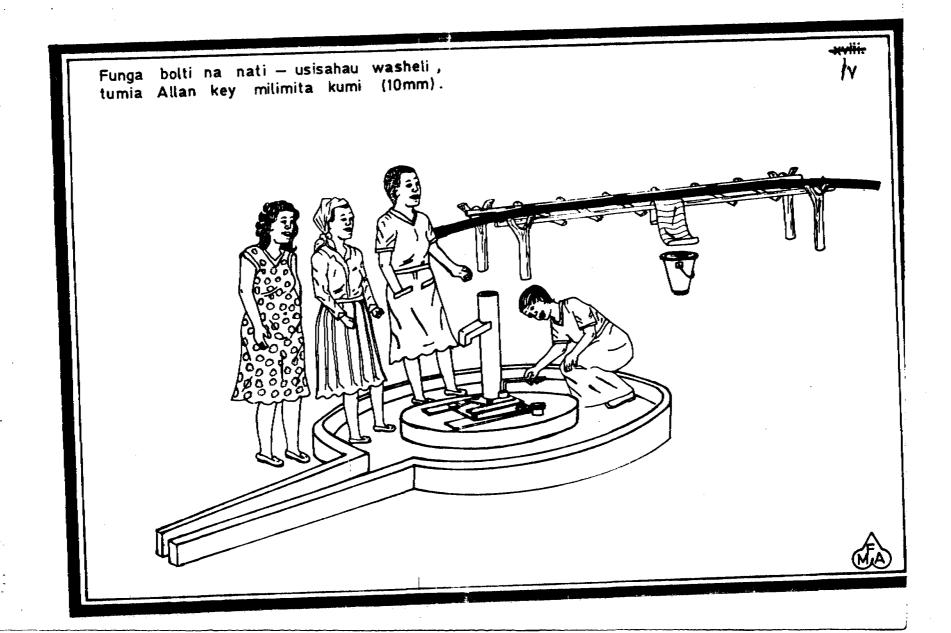
- (a) Determine the kind of economic development that could be initiated by the water point.
- (b) Discuss the steps in acquiring space for economic developments.
- (c) Discuss the importance of fencing and appropriate fencing materials to be used.

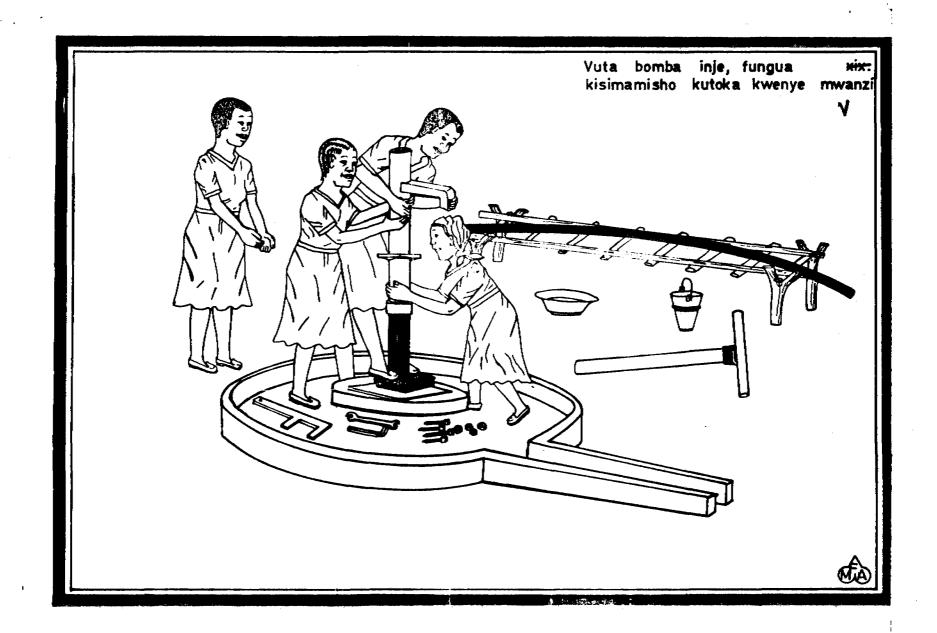
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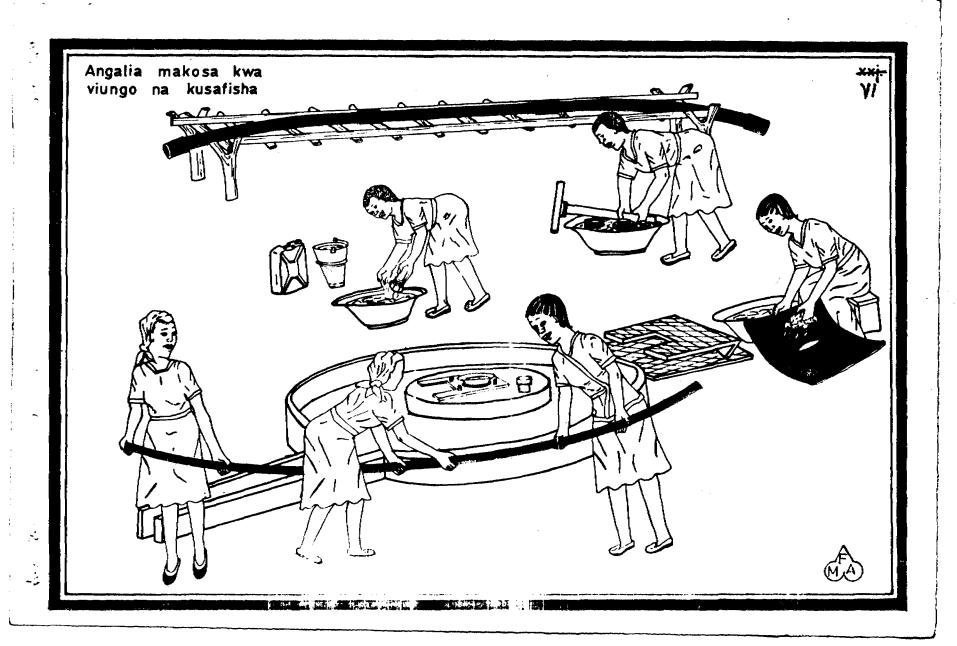




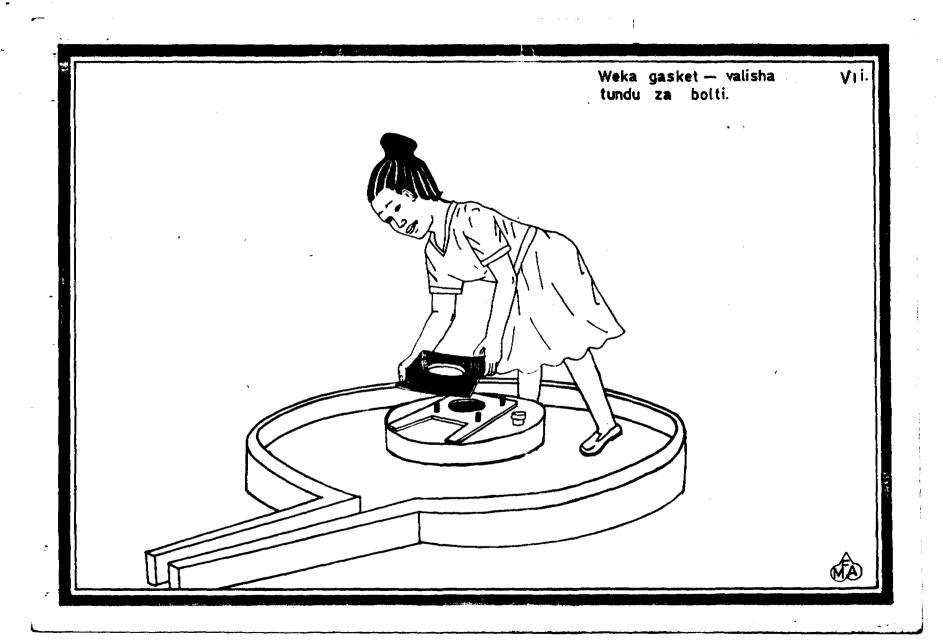




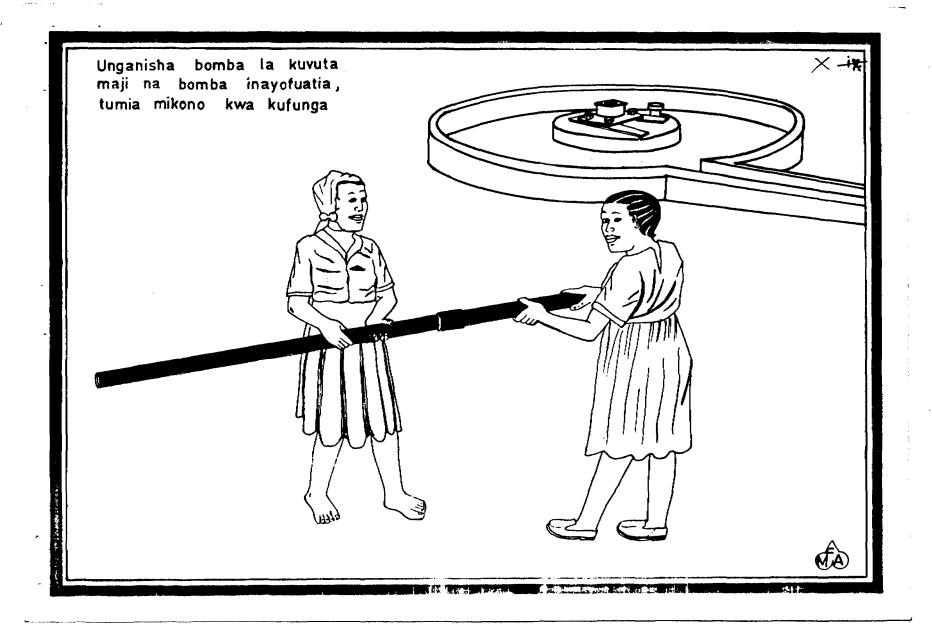


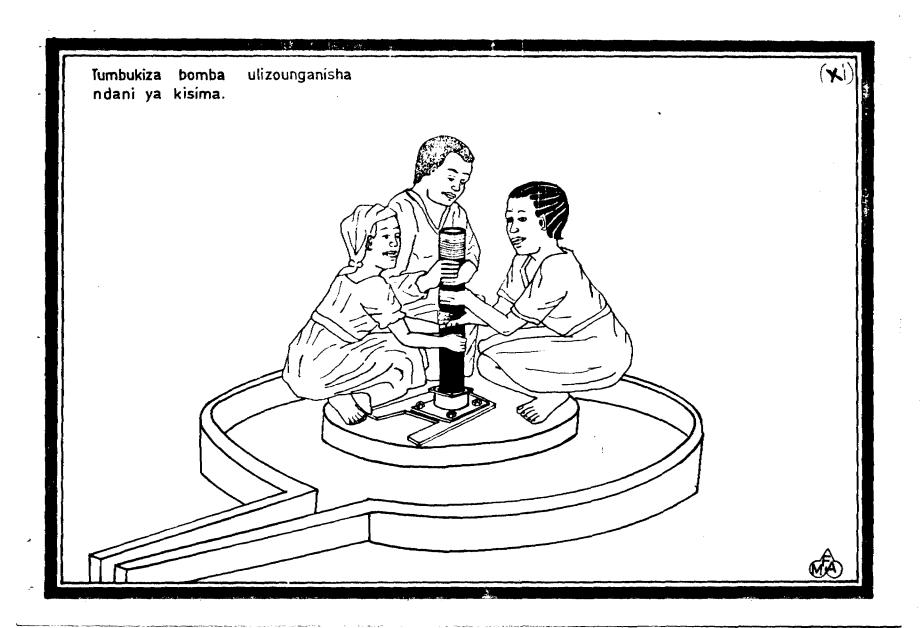


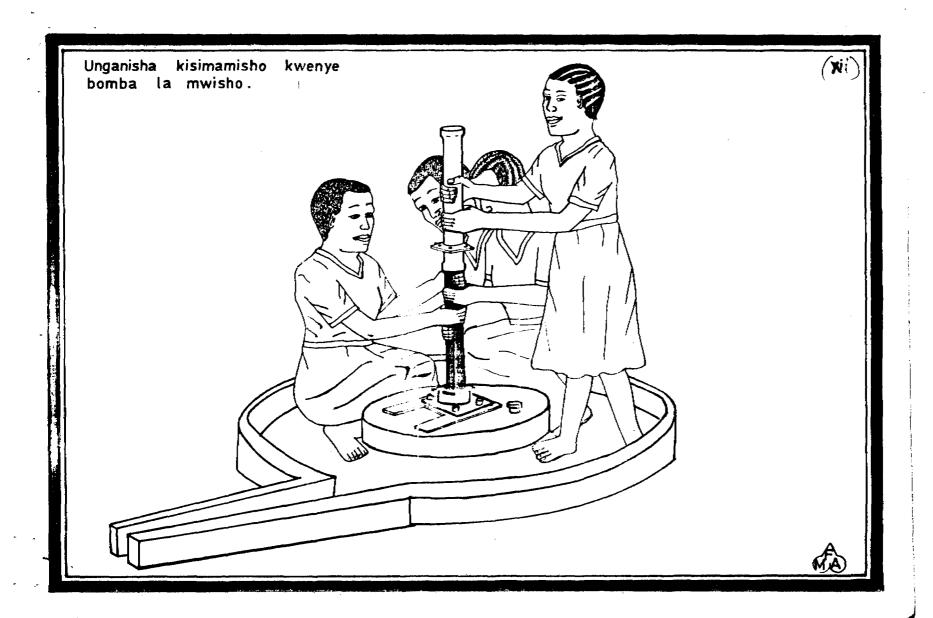
# JINSI YA KUSIMIKA (INSTALL) BOMBA AINA YANIRA AF 85

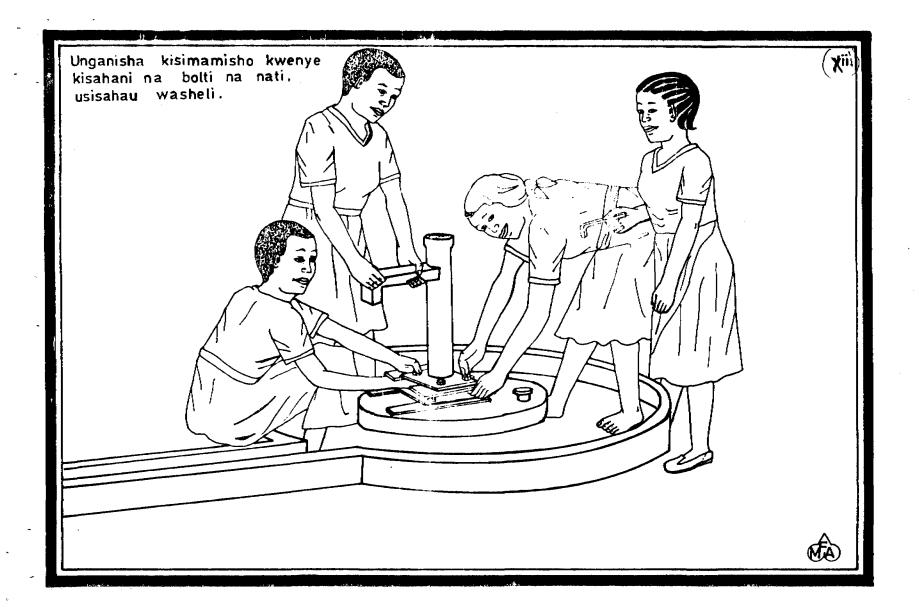


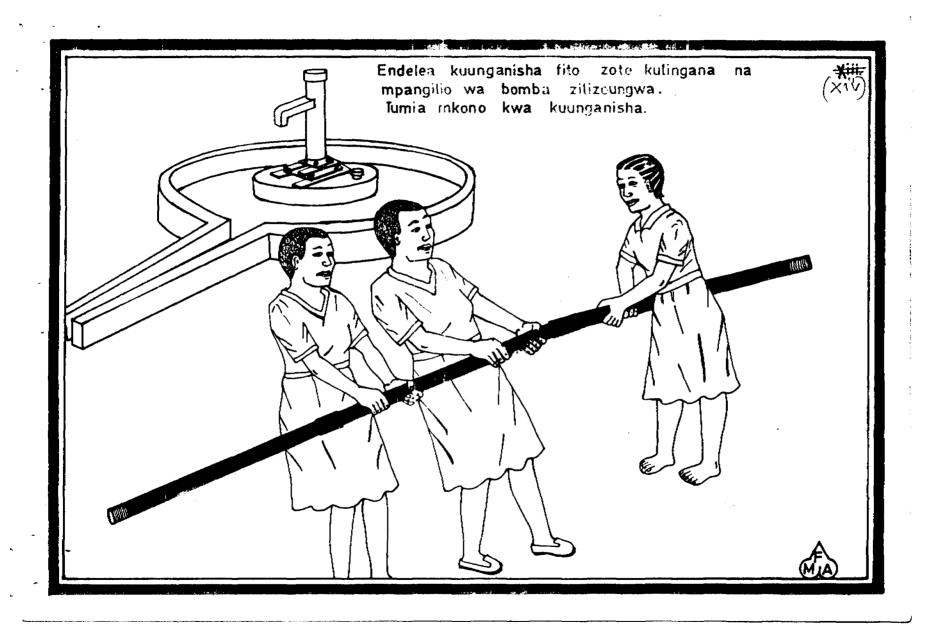


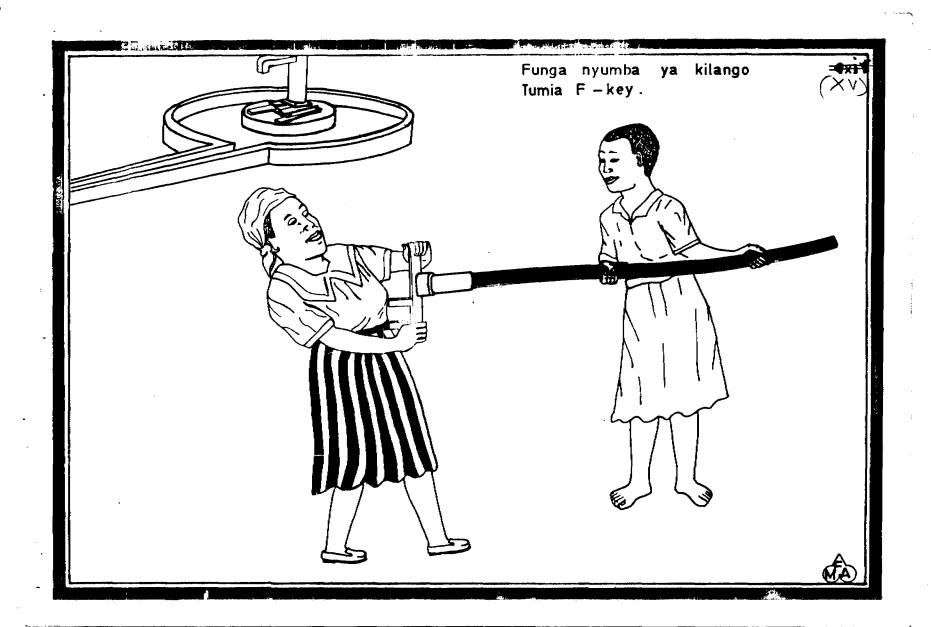


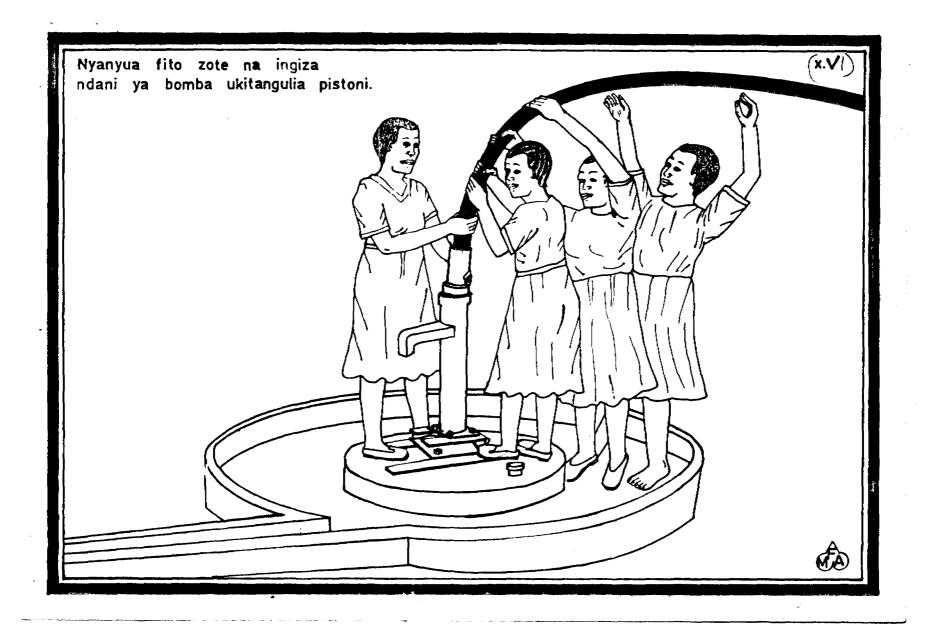


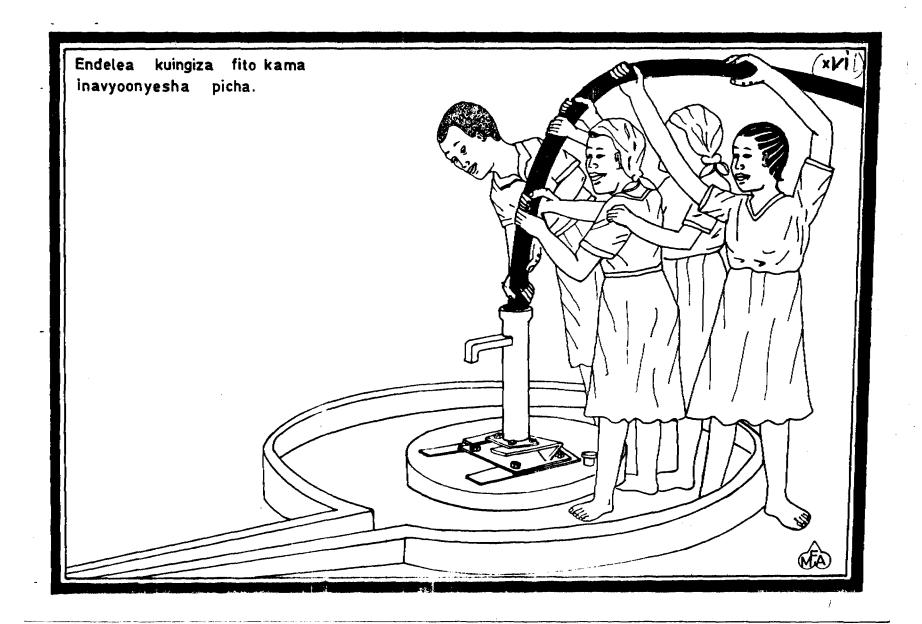


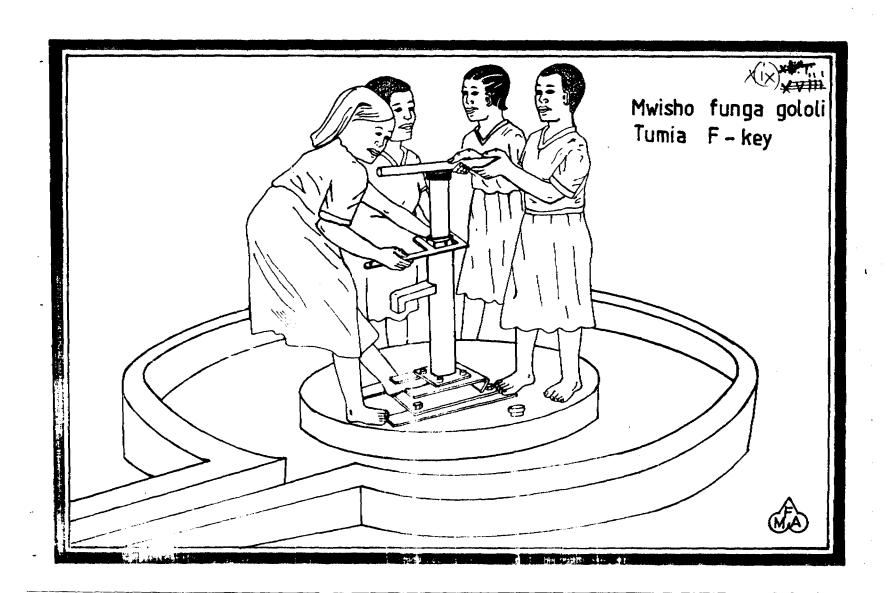


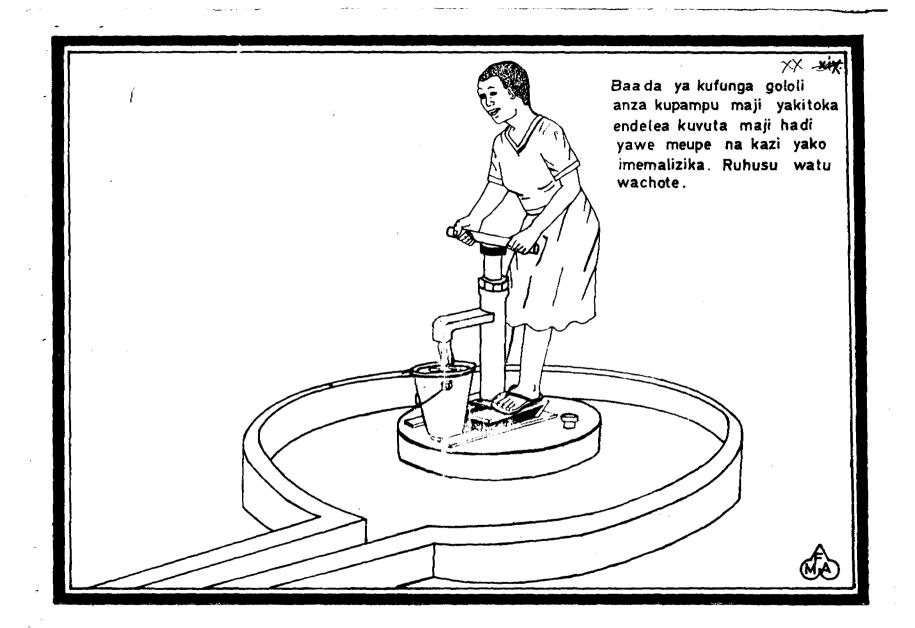


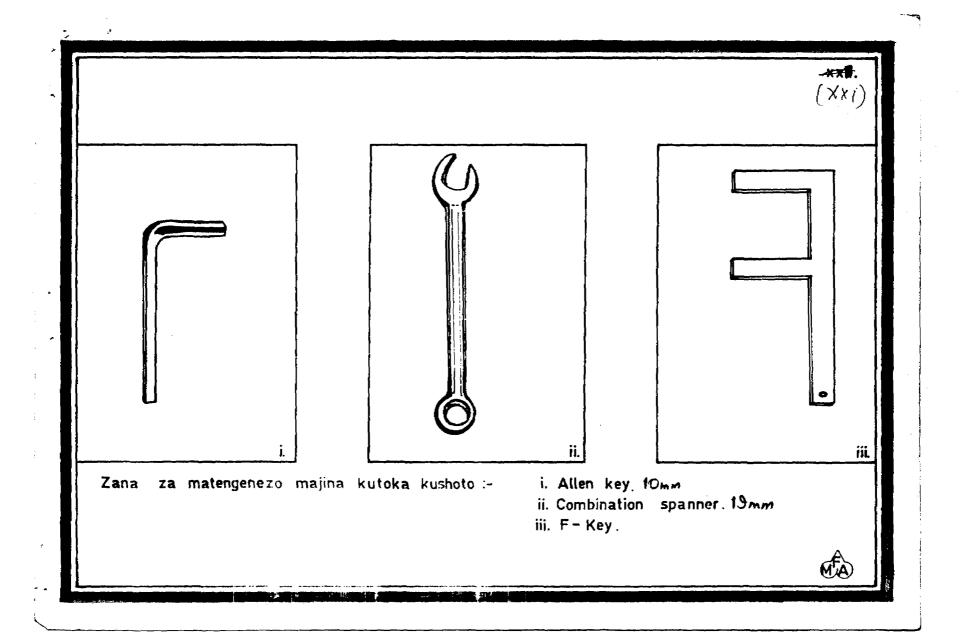












## PUMP ATTENDANTS' QUARTERLY MONITORING FORM:

## IMPORTANT THINGS TO ATMEMBER PUMP ATTENDANT.

- 1. Check that you have a pen, record note book, an inspection sheet and a hand pump inspection repair manual.
- 2. Carry a 20 litre measure jerrican or bucket.
- 3. Repair tools (see hand pump repair manual)
- 4. String for depth measure weight at the end of it.
- 5. The monitoring form should be filled quarterly i.e. after 3 months.
- 6. You should give the water quality officer this form to sign when he visits.

## PUMP ATTENANTS' QUARTERLY MONITORING FORM

<b>&gt;</b>	NAME
	INSPECTION DATES///19
	WELL NUMBER
	HAND PUMP TYPE

			MONTHS		
					_
1.	Is the hand pump firmly anchored?				
2.	Is the hand pump working?				
3.	What is the waiting time before 20 litres water can be pumped out?				
4.	What is the depth of the water in the well?				
5.	How many full strokes fill 20 litres?				
6.	What colour is the water?	}			
7.	Is there a duty roster for well site cleanliness?				
8.	Is there rules to encourage good behaviour during use and care of the well?				
9.	Is the drainage clear?				
10.	Is there a proper fence?				
11.	Is the well cover in good state?				
12.	Is the well slab cracked?		}		
13.	Does the water have peculiar taste or smell?				

		<del></del>	MONTHS		
14.	Is there protection from surface run-off?				
15.	Is there stagnant water 10m from the well?				
16.	Is there a latrine within 50m of the well?				
7.	Is the nearest latrine on the upper side of the well?				

## INSPECTION COMMENTS/REMARKS

## WATER QUALITY OFFICER'S INSPECTION COMMENTS

DATE	NAME	PURPOSE/REMARKS	SIGNATURE
41			

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## ADVISORY NOTES

WHA	TO CHECK (FAULTS)	WHAT TO DO (CORRECTION)
1.	If the hand pump is not firmly anchored	Tighten the anchor bolts and screws
2.	If the hand pump is not working	First report to the well chairman.
3.	If the users wait for over one hour to get (20 litres) water home.	Second make necessary arrangements to inspect the faults.
4.	If the difference in the full number of strokes to get 20 litres is more than 10 from the initial.	Third make arrangements for the appropriate spares if repair is needed.
5.	If the well cover and slab are in bad condition i.e. with cracks.	Fourth use the repair manual for the hand pump to do the service and repair.
6.	If there are no rules governing good behavioural use and care	Together with the well committee,
7.	If there is no duty roster for well site sanit@ry up-keep	a) make rules to govern proper use. b) Design a duty roster for proper sanitary upkeep.
в.	If the drainage is blocked	a) Alert the well committee officials.
9.	If the cover slabs and well surrounding are dirty.	b) Mobilize the relevant people for the cleaning and fencing. Stress is on the living fence.
10.	If the fence is missing.	
11.	If the water has a pecular colour.	Report to the nearest Water Quality Officer.
12.	If the water has an unsual taste/smell.	
13.	If the depth of the water in	

WHAT	TO CHECK (FAULTS)	WHAT TO DO (CORRECTION)
14.	If there is no protection from surface run-off.	Report to the nearest water point sanitary inspector and the nearest public health technician for proper
15.	If there is stagnant water within 10m from the well.	guidance.
16.	If there is a latrine within 50m from the well.	
17.	If the nearest latrine is on the upper side of the well	