

# KILINYAA/KISIKINI WATER TANK CONSTRUCTION PROPOSAL TO ICAC

## OBJECTIVE

Kilinyaa and Kisikini Primary Schools in Kisasi location have no source of safe drinking water for the children. There is a possibility that a shallow well could be scooped out at Kilinyaa Primary School. Kisikini has nil possibility of finding ground water. As such the only available avenue for supply of safe drinking water for Kisikini Primary School is through construction of water storage tanks and harvesting the roof catchment. At Kilinyaa if ground water is found through sinking a well, supplementary water supply for the dry season is through water tanks.

## PROVISION OF SAFE DRINKING WATER THROUGHOUT THE YEAR

Kilinyaa has currently 473 children enrolled in the school. To provide at least 2 litres of water per day per child assuming two rainy seasons a year would require 2 tanks of 40,000 litres each. These tanks could be served adequately by the existent roof catchment. A better solution would however be to construct a shallow well with one tank to supplement the well in the case of a drought.

For Kisikini which has no known sources of shallow water, roof catchment is the only possible solution to the provision of safe drinking water for the school children.

## TANK CONSTRUCTION REQUIREMENTS

The community would provide local inputs and labour towards the construction of tanks, if capital inputs can be financed.

For a 40,000 litre tank the following would be the cost:

Gutters (for water collection)	10,000	
Cement 60 bags	27,000	
BRC 1.5 roll	17,250	
Wire mesh (Kitchen wire) 3 rolls	4,500	
Wire mesh - 3 rolls	4,500	
Binding wire 16 kg	1,600	
Delivery pipe 3/4 & 1m	200	
Clean sand 4 cm <sup>3</sup> @ Ksh. 600 per cube	2,400	
Ballast 2.5 cm <sup>3</sup> @ Ksh. 700 per cube	1,750	
Labour (14 days)		
1. Artisans 56 man days @ 150 per day	8,400	

KSH.

	2. Casual labourers 56 man days	<u>2,800</u>
TOTAL	80,400	

## SCHEDULE FOR CONSTRUCTION

Shallow well scooping will be started at Kilinyaa Primary School on 13/9/93. By the end of the month scooping would be completed. The onset of the rains is early October. This gives barely enough time to finish construction scheduled to start at the beginning of October before the rains start.

Two tanks, one at Kilinyaa and the other at Kisikini can be constructed in November 1993. These would be filled by the rains. A second tank at Kisikini would be constructed in January 1994.

## PROJECT COSTS

The project proposal is thus to construct:

- 1 shallow well at Kilinyaa Primary School.
- 1 x 40,000 litre water tank at Kilinyaa Primary School
- 2 x 40,000 litre water tanks at Kisikini Primary School.

1 shallow well costs	Ksh. 48,000
3 water tanks 40,000 litres each	
@ Ksh. 80,400 each	<u>Ksh. 241,200</u>
Subtotal	289,200
20% SASOL Overhead	Ksh. 57,840
TOTAL	347,040

US\$ 4,958

## KILINYAA PRIMARY SCHOOL

Location		Kisasi
Address		Box 32 Kisasi, Kitui
No. of pupils		473
No. of teachers	10	
No. of classes		15
No. of classrooms	14	
No. of latrines	13	
Water source		River Nzeeu, 5 Km from school
School established as population increased		1967 as an off-shoot of Ngilini Primary School
Desks		131 (double).

## KISIKINI PRIMARY SCHOOL

Location		Kisasi
Address		Box 20, Kisasi, Kitui
No. of pupils		136
No. of teachers	7	
No. of classes		6
No. of classrooms	4	
No. of latrines	3	
Water source		River Nzeeu, 8 Km from school
School established Kilinyaa Primary School		1988 by the community as an off-shoot of
Desks		38 (triple).