

SUPPLEMENT QUESTIONNAIRE ON WATER SUPPLY

To be completed by the acting person in charge as an integral part of the GENERAL Questionnaire concerning the application form:

Name of Institution: **SAHELIAN SOLUTIONS FOUNDATION (SASOL)**

Country: **KENYA**

I. INFORMATION ABOUT THE PRESENT WATER SITUATION IN THE DISTRICT: KISASI, CHANGWITHYA AND MULANGO LOCATIONS

I.1 What percentage of the inhabitants have access to clean drinking water:
4%

Available safe water sources:

Sand dam	20
Shallow well	1
Bore holes	5

Number of villages: **5**

Number of families: **165**

Number of persons: **1,350**

I.2. TYPE(S) OF PRESENT WATER PROVISION

2.a. HAND PUMPS

Number of : **None** at a distance of.....km

Accessible to :**EVERYONE**
:NOT EVERYONE, because: **N/A**

Water available :ALWAYS **N/A**
:**NOT ALWAYS, because: runs dry in dry season.**

Water quality :POOR MODERATE GOOD **N/A**

2.b. OPEN WELLS

Number of :.....at a distance of....km.

Accessible to :EVERYONE
:NOT EVERYONE, because: **N/A**

Water available :ALWAYS
:NOT EVERYONE, because: **N/A**

Water quality :POOR MODERATE GOOD **N/A**

2. c. BORE WELLS

No. of bore wells :**10** at a distance of.....km., **depending on location, from less than 1km to approximately 12km.**

Accessible to :EVERYONE
:**NOT EVERYONE, because: Private**

Water available :ALWAYS
:**NOT ALWAYS, because: Maintenance Costs**

Water quality :POOR **MODERATE** GOOD

2. d. OTHER WATER PROVISION(S): Please specify: 20 Sand dams, an unknown number of surface water sources (pools), dug holes in river bed.

Accessibility :**GOOD** BAD

Water quality :**POOR MODERATE** GOOD

3. THE IMPACT of the present water situation to the HEALTH CONDITION in the area in concern is: (Please give details)

The use of unsafe water may cause diarrhoea, being the main cause of death in these locations after malaria. Safe water sources e.g. shallow wells, will improve the health situation significantly. Water of the shallow wells is used for drinking and for the irrigation at the school farm. Malnutrition of the students will decrease as soon as the school farm can provide for food at the schools.

II. REASONS FOR THIS APPLICATION

II.1. Is it a matter of DROUGHT (Please, give details on the period, the measures taken so far, (lack of) support from the government and/or others, etc). **YES** NO

Kitui is a typical drought area; in a good year 600mm rainfall. Some water sources are developed by other aid agencies - USAID/DANINDA/DIOCESE. Not all of them are safe water sources and not well maintained.

II.2. Is it a matter of water supply MISSING so far (Please, explain why there is a need now, how people helped themselves until now with or without assistance of whom). **YES** NO

A proper supply is missing. Dams can provide people with water although it is bad quality water. Maintenance is not always done. People fetch water from dams/pools/dug-holes etc.) in the rainy season. Otherwise people have to buy water. People travel 5-14km to get drinking water of quality.

II.3. Is it a matter of and/or of an EXISTING facility (Please, give details on the need for this).

**IMPROVEMENT
ADJUSTMENT
EXTENSION**

If any facility is present at all. The project aims at constructing new shallow wells.

III. TECHNICAL INFORMATION

1. Has a SOIL EXPLORATION been made (A copy should be submitted). **YES**
NO

Reconnaissance soil survey Machakos, Kitui, Embu are carried out by US Dept. of Agriculture USAID. GWS (K) Ltd is already carrying site specific soil investigations.

Clearly should be explained why not.

2. Is the provision in concern part of a LARGER SYSTEM (Please give details).
YES, notably: See ANNEX 1. Emergency aid for Matinyani, Mulango, Mutunguni and Changwithya Location.

In case the provision is part of a larger system, who else is involved in the execution of the job.

GOVERNMENT

PARENT ORGANISATION

OTHER, namely: World Food Programme, UNICEF, ICS and Ground Water Survey (K).

In case of a connection to the MAIN WATER SYSTEM, the following formalities have to be fulfilled (Please, give details). **N/A.**

At the following estimated CHARGES: **N/A**

To be paid by: **N/A**

3. TYPE (AND NUMBER) OF WATER PROVISION REQUESTED.

See Annex 2.

**Shallow Well manual on construction
Shallow well.**

Give a clear description of the provision requested. ADD A BUDGET PROPOSAL WITH SCHEME OF WORK, calculated by a contractor.

The participation of the population exists of (Please describe): **Supply water/sand and transport, plus the actual construction under supervision of an expert.**

IV. IMPROVEMENT TO BE EXPECTED

Related to question No. A the following improvement(s) can be observed:

1. Percentage of the population with access to clean drinking water after completion will be:

Mulango 67% Changwithya 41%

Number of school communities:

Mulango 33 Changwithya 16.

Number of families:

Mulango 1,420 Changwithya 1,820

Number of persons:

Mulango 12,570 Changwithya 17,075

2. Distance to nearest water provision will be km less than: **2km from the school.**

3. Quality of water expected to be: **BETTER** SAME

4. Available during (period of the year): **Whole year.**

For (number of years): **10 years.**

5. In case only a TEMPORARY IMPROVEMENT can be obtained, the following are the PLANS FOR THE FUTURE (please specify): **All schools in Mulango location can have a shallow well according to Ground Water Survey data.**

Name of the person who completed this supplement questionnaire: **Dr. J. G. Grootenhuis.**

Function: **Acting Secretary, SASOL FOUNDATION.**

Signature: **SIGNED**

Date and place: **Nairobi, Kenya 1st February 1993.**

To be forwarded to:

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