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1979

A.I.D. Project No. 645-0087

A.I.D. Agreement No. 79-645-9

PROJECT GRANT AGREEMENT

between the

GOVERNMENT OF THE KINGDOM OF SWAZILAND

and the

UNITED STATES OF AMERICA

for the

RURAL WATER BORNE DISEASE

CONTROL PROJECT

DATE: August 30, 1979

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A.I.D. Project No. 645-0087

A.I.D. Agreement No. 79-645-9

PROJECT GRANT AGREEMENT

Dated: 8.30.1979

Between

The Government of the Kingdom of Swaziland  
("Grantee"), acting through the Department  
of Economic Planning and Statistics

And

The United States of America, acting through  
the Agency for International Development ("A.I.D.").

Article 1 : The Agreement

The purpose of this Agreement is to set out the understanding of the parties named above ("Parties") with respect to the undertaking by the Grantee of the Project described below, and with respect to the financing of the Project by the Parties.

Article 2 : The Project

SECTION 2.1. Definition of Project

The Project, which is further described in Annex 1, will assist the Grantee to (a) establish a continuing mechanism for basic health education in Swaziland to foster the use of improved water and sanitation related practices, (b) demonstrate and undertake the construction of low-cost, technically appropriate pit latrines, and (c) institutionalize a capacity to incorporate health criteria into the design of water systems and projects in Swaziland. Additionally, to help establish priorities for the provision of the above services, a nationwide survey for schistosomiasis and other parasitic disease will be financed. Annex 1, attached, amplifies the above definition of the Project. Within the limits of the above definition of the Project, elements of the amplified description stated in Annex 1 may be changed by written agreement of the authorized representatives of the Parties named in Section 8.2, without formal amendment of this Agreement.

SECTION 2.2. Incremental Nature of Project

(a) A.I.D.'s contribution to the Project will be provided in increments, the initial one being made available in accordance with Section 3.1 of this Agreement. Subsequent increments will be subject to availability of funds to A.I.D. for this purpose, and to the mutual agreement of the Parties, at the time of a subsequent increment, to proceed.

(b) Within the overall Project Assistance Completion Date stated in this Agreement, A.I.D., based upon consultation with the Grantee, may specify in Project Implementation Letters appropriate time periods for the utilization of funds granted by A.I.D. under an individual increment of assistance.

Article 3 : Financing

SECTION 3.1. The Grant

To assist the Grantee to meet the costs of carrying out the Project, A.I.D., pursuant to the Foreign Assistance Act of 1961, as amended, agrees to grant the Grantee under the terms of this Agreement not to exceed Six Hundred Forty Thousand United States ("U.S.") Dollars (\$640,000) ("Grant"). The Grant may be used to finance foreign exchange costs, as defined in Section 6.1, and local currency costs, as defined in Section 6.2, of goods and services required for the Project. Subject to the requirements of Section 2.2, above, it is anticipated that A.I.D.'s total assistance to the project, including the assistance obligated under this Agreement, will be \$3,296,800.

*71,440,000  
w/ Amendment #1.*

SECTION 3.2. Grantee Resources for the Project

(a) The Grantee agrees to provide or cause to be provided for the Project all funds, in addition to the Grant, and all other resources required to carry out the Project effectively and in a timely manner.

(b) The resources provided by Grantee for the Project will be not less than the equivalent of U.S. \$1,319,200, including costs borne on an "in-kind" basis.

SECTION 3.3. Project Assistance Completion Date

(a) The "Project Assistance Completion Date" (PACD), which is September 30, 1985, or such other date as the Parties may agree to in writing, is the date by which the Parties estimate that all services financed under the Grant will have been performed

and all goods financed under the Grant will have been furnished for the Project as contemplated in this Agreement.

(b) Except as A.I.D. may otherwise agree in writing, A.I.D. will not issue or approve documentation which would authorize disbursement of the Grant for services performed subsequent to the PACD or for goods furnished for the project, as contemplated in this Agreement, subsequent to the PACD.

(c) Requests for disbursement, accompanied by necessary supporting documentation prescribed in Project Implementation Letters are to be received by A.I.D. or any bank described in Section 7.1 no later than nine (9) months following the PACD, or such other period as A.I.D. agrees to in writing. After such period, A.I.D., giving notice in writing to the Grantee, may at any time or times reduce the amount of the Grant by all or any part thereof for which requests for disbursement, accompanied by necessary supporting documentation prescribed in Project Implementation Letters, were not received before the expiration of said period.

#### Article 4 : Conditions Precedent to Disbursement

##### SECTION 4.1. First Disbursement

Prior to the first disbursement under the Grant, or to the issuance by A.I.D. of documentation pursuant to which disbursement will be made the Grantee will, except as the Parties may otherwise agree in writing, furnish to A.I.D. in form and substance satisfactory to A.I.D. a statement of the name of the person holding or acting in the office of the Grantee specified in Section 8.2, and of any additional representatives, together with a specimen signature of each person specified in such statement.

##### SECTION 4.2. Additional Disbursement - Construction

Prior to the disbursement, or to the issuance by A.I.D. of documentation pursuant to which disbursement will be made, for the purpose of financing staff housing, the Health Education Unit office, and the Bilharzia Laboratory, the Grantee will furnish to A.I.D. the following in form and substance satisfactory to A.I.D.:

(a) Detailed Plans, Specifications, Bid Documents and Construction schedules with respect to such activity;

(b) A description of the arrangements made for providing construction services for such activity, including, where appropriate, an executed contract for construction services with a firm acceptable to A.I.D. unless such services are being provided by Force Account;

(c) A description of the arrangements made for providing engineering supervisory services for such construction

activity, including an executed contract with a firm satisfactory to A.I.D. unless such services are being provided by agencies of the cooperating country; and

(d) Evidence that adequate sites have been identified and allocated for the construction of the staff housing.

#### SECTION 4.3. Notification

When A.I.D. has determined that the conditions precedent specified in Section 4.1 and 4.2 have been met, it will promptly notify the Grantee.

#### SECTION 4.4. Terminal Dates for Conditions Precedent

(a) If all of the conditions specified in Section 4.1 have not been met within 90 days from the date of this Agreement, or such later date as A.I.D. may agree in writing, A.I.D., at its option may terminate this Agreement by written notice to Grantee.

(b) If all of the conditions specified in Section 4.2 have not been met by 120 days from the date of this Agreement or such later date as the Parties may agree to in writing, as reflected in Project Implementation Letters, A.I.D., at its option, may cancel the then undisbursed balance of the Grant, to the extent not irrevocably committed to third parties, and may terminate this Agreement by written notice to the Grantee.

### Article 5: Special Covenants

#### SECTION 5.1. Project Evaluation

The Parties agree to establish the evaluation program contained in the Amplified Project Description (Annex 1) as part of the Project. This evaluation program may be modified by mutual agreement of the Parties as reflected in Project Implementation Letters.

#### SECTION 5.2. Personnel - Official Positions

The Grantee covenants that it will establish official Government posts for the Swazi Public Health Engineer and other staff of the Health Education Unit and/or The Ministry of Health as these are identified in the amplified project description. The Grantee also covenants that these positions will be established in accordance with the schedule contained in the amplified project description. The Grantee further agrees that the Health Education Unit will be established as an official unit within the Ministry of Health.

### SECTION 5.3. Personnel - Senior Health Assistants

The Grantee covenants that it will provide, by October, 1980, or such other date as A.I.D. may agree to in writing, four Senior Health Assistants to work, primarily, with the project's technical advisory personnel to implement the demonstration pit latrine construction component of the project.

### SECTION 5.4. Design and Site Selection Criteria

The Grantee covenants that it will utilize and apply the design and site selection criteria, developed in collaboration with the project's technical advisory team, in construction undertaken pursuant to the project's pit latrine and demonstration program. Unless A.I.D. otherwise agrees in writing, no project-financed pit latrine construction will be undertaken until the Parties have reviewed and approved design and site selection criteria.

### SECTION 5.5. Participant Training

The Grantee covenants that it will provide, on a timely basis, qualified personnel to undertake participant training and that persons who receive training outside Swaziland will, upon their return, be placed in positions within the Health Education Unit, the Ministry of Health, or will be placed in such other positions as the Parties may agree commensurate with the nature and level of training received.

### SECTION 5.6. Classroom Facilities

The Grantee covenants that it will provide classroom facilities at its Institute of Health Sciences, or other acceptable institution, for in-service workshops conducted under the project for health workers.

### SECTION 5.7. Staff Houses

The Grantee covenants that, unless A.I.D. otherwise agrees in writing, staff houses constructed under the project will be for the exclusive use of A.I.D.-financed technical assistance personnel. Notwithstanding that title to these staff houses is vested in the Grantee, the Grantee covenants that, upon completion of the project, such houses will be reserved for use by other A.I.D.-financed technical assistance personnel providing services with regard to other projects in Swaziland, or for such other uses as the Parties may agree to in writing. In the event housing construction has not been completed in time for the arrival of technical assistance personnel, the Grantee covenants that it will provide comparable alternative housing suitable for technicians and their families until such time as housing construction under the project is completed and ready for occupancy.

Article 6 : Procurement Source

SECTION 6.1. Foreign Exchange Costs

(a) Except as stated in paragraph (b), below, disbursements pursuant to Section 7.1 will be used exclusively to finance the costs of goods and services required for the Project having their source and origin in the United States (Code 000 of the A.I.D. Geographic Code Book as in effect at the time orders are placed or contracts entered into for such goods or services) ("Foreign Exchange Costs"), except as A.I.D. may otherwise agree in writing, and except as provided in the Project Grant Standard Provisions Annex 2, Section C.1 (b) with respect to marine insurance.

(b) Notwithstanding paragraph (a) and Section C.1 (c) of the Project Grant Standard Provisions Annex 2, construction materials and vehicles procured under the Project may have their source and origin in countries included in Code 935 of the A.I.D. Geographic Code Book in effect at the time orders are placed or contracts entered into for such commodities. Project Implementation Letters will elaborate further on any limitations on the procurement of these and other commodities.

SECTION 6.2. Local Currency Costs

Disbursements pursuant to Section 7.2 will be used exclusively to finance the costs of goods and services required for the Project having their source and, except as A.I.D. may otherwise agree in writing, their origin in Swaziland ("Local Currency Costs"). To the extent provided for under this Agreement, "Local Currency Costs" may also include the provision of local currency resources required for the Project.

Article 7 : Disbursement

SECTION 7.1. Disbursement for Foreign Exchange Costs

(a) After satisfaction of conditions precedent, the Grantee may obtain disbursements of funds under the Grant for the Foreign Exchange Costs of goods or services required for the Project in accordance with the terms of this Agreement, by such of the following methods as may be mutually agreed upon:

- (1) by submitting to A.I.D., with necessary supporting documentation as prescribed in Project Implementation Letters,
  - (i) requests for reimbursement for such goods or services, or,
  - (ii) requests for A.I.D. to procure commodities or services in Grantee's behalf for the Project; or,

(2) by requesting A.I.D. to issue Letters of Commitment for specified amounts (A) to one or more U.S. banks, satisfactory to A.I.D., committing A.I.D. to reimburse such bank or banks for payments made by them to contractors or suppliers, under Letters of Credit or otherwise, for such goods or services, or (B) directly to one or more contractors or suppliers, committing A.I.D. to pay such contractors or suppliers for such goods or services.

(b) Banking charges incurred by Grantee in connection with Letters of Commitment and Letters of Credit will be financed under the Grant unless Grantee instructs A.I.D. to the contrary. Such other charges as the Parties may agree to may also be financed under the Grant.

#### SECTION 7.2. Disbursement for Local Currency Costs

(a) After satisfaction of conditions precedent, the Grantee may obtain disbursements of funds under the Grant for Local Currency Costs required for the Project in accordance with the terms of this Agreement, by submitting to A.I.D., with necessary supporting documentation as prescribed in Project Implementation Letters, requests to finance such costs.

(b) The local currency needed for such disbursements may be obtained by acquisition by A.I.D. with U.S. Dollars by purchase, or by such other means as the Parties may agree to in writing.

#### SECTION 7.3. Other Forms of Disbursement

Disbursement of the Grant may also be made through such other means as the Parties may agree to in writing.

#### SECTION 7.4. Rate of Exchange

Except as may be more specifically provided under Section 7.2, if funds provided under the Grant are introduced into Swaziland by A.I.D. or any public or private agency for purposes of carrying out obligations of A.I.D. hereunder the Grantee will make such arrangements as may be necessary so that such funds may be converted into currency of Swaziland at the highest rate of exchange which, at the time of conversion is made, is not unlawful in Swaziland.

### Article 8 : Miscellaneous

#### SECTION 8.1. Communications

Any notice, request, document, or other communication submitted by either Party to the other under this Agreement will be in writing or by telegram or cable, and will be deemed duly given or sent when delivered to such party at the following addresses:

To the Grantee:

Mail Address: Permanent Secretary, Department  
of Economic Planning and Statistics  
P.O. Box 602, Mbabane, Swaziland

Alternate address for cables: ECONPLAN  
Mbabane

To A.I.D.:

Mail Address: Director  
U.S.A.I.D. Mission to Swaziland  
P.O. Box 750, Mbabane, Swaziland

Alternate address for cables: USAID  
Mbabane

All such communications will be in English, unless the Parties otherwise agree in writing. Other addresses may be substituted for the above upon the giving of notice.

#### SECTION 8.2. Representatives

For all purposes relevant to this Agreement, the Grantee will be represented by the individual holding or acting in the office of Permanent Secretary, Department of Economic Planning and Statistics and A.I.D. will be represented by the individual holding or acting in the office of Director, USAID/Swaziland, each of whom, by written notice, may designate additional representatives for all purposes other than exercising the power under Section 2.1 to revise elements of the amplified description in Annex 1. The names of the representatives of the Grantee, with specimen signatures, will be provided to A.I.D., which may accept as dully authorized any instrument signed by such representatives in implementation of this Agreement, until receipt of written notice of revocation of their authority.

#### SECTION 8.3. Standard Provisions Annex

A "Project Grant Standard Provision Annex" (Annex 2) is attached to and forms part of this Agreement.

IN WITNESS WHEREOF, the Government of the Kingdom of Swaziland and the United States of America, each acting through its duly authorized representative, have caused this Agreement to be signed in their names and delivered as of the day and year first above written.

Witness: M. H. P. R.  
Permanent Secretary,  
Ministry of Health

KINGDOM OF SWAZILAND  
By: [Signature]  
Title: Permanent Secretary, Department  
of Economic Planning & Statistics

UNITED STATES OF AMERICA  
By: [Signature]  
Title: Director, USAID/Swaziland

Appropriation: 72-1191021.8 *C.S.*  
Allotment: 948-50-645-00-69-91  
Document: 79-645-9

AMPLIFIED PROJECT DESCRIPTION

This amplified project description elaborates on the description provided in Section 2.1 of this Agreement. Except as may be stated otherwise in this Annex, elements of the amplified description may be changed by written agreement of the authorized representatives of the Parties named in Section 8.2. without formal amendment of this Agreement, provided that any such change is made within the limits of the definition of the Project as set forth in Section 2.1.

A. The Project

The Project will assist the Grantee to (a) establish a continuing mechanism for basic health education in Swaziland to foster the use of improved water and sanitation-related practices, (b) demonstrate and undertake the construction of low-cost, technically appropriate pit latrines, and (c) institutionalize a capacity to incorporate health criteria into the design of water systems and projects in Swaziland. Additionally, to help establish priorities for the provision of the above services, a nationwide schistosomiasis and other parasitic diseases survey will be conducted.

1. Health Education

The project's major focus is health education, especially education in the proper storage, handling, and use of water; proper excreta disposal practices; and information concerning the avoidance of water contact in areas of high infestation of snails serving as intermediate hosts for schistosomiasis. The project's approach to achieve the desired results centers on the development of the institutional capacity within, particularly, the Ministry of Health to plan and implement programs that will affect rural people's attitudes and practices.

During the first two years of the project, a Knowledge, Attitudes, and Practice (KAP) study will be completed and interpreted. The findings of the study will be used to design the content of Swaziland's health education program and will provide information on which to base the communications process for both the health education personnel and the sanitation teams.

The project's health education advisor will assist the MOH in the development of a national health education strategy and plan. Partly based on the KAP, the plan will include, inter alia, a system for health education content design, communication channels and methodologies, long-range training and staffing requirements. As part of establishing the national program, one participant will be trained to the M.Sc. level in health education, one Public Health nurse will be trained to the diploma level in health education, and a graphic artist will receive short-term training. All three participants will be trained in an African institution.

In addition to academic training, 312 community health workers will receive in-service training (230 Rural Health Visitors, 42 Health Assistants, 40 Domestic Science Demonstrators) on an annual basis beginning in January 1981. Initially, Health Assistants will receive a two-week workshop at the IHS to prepare them for participation in the sanitation program and annually thereafter, one-week seminars to discuss new methodologies and to discuss field problems. RHVs and DSDs will receive one-week seminars in small groups at district headquarters to enable them to participate in the water and sanitation activities within their communities. To support the activities of the HEU, a new central office will be constructed and equipped, including the provision of two vehicles for central office staff who will be heavily involved in field work.

The social scientist will also assist the health educator in the design of the water and sanitation component of the education program. The health education advisor will develop a training plan for the field agents who will be involved in disseminating information and will work with the MOH on the organization and supervision of field activities (including placement). The primary field workers will be the MOH health assistants, rural health visitors, and Ministry of Agriculture domestic science demonstrators.

## 2. Sanitation and Public Health Engineering

In order to interrupt the transmission cycle of water-related diseases, a sanitation program will be launched. Affordable, environmentally safe pit latrines will be constructed on a demonstration basis to provide rural people with the ability to construct their own latrines with assistance from the community health personnel to be trained under the project. In addition, a public health engineering capacity will be developed to ensure that health criteria become an integral part of the design of major water works.

The project will finance the services of a public health engineer to the Ministry of Health who will be attached to the Rural Water Supply Branch of the Grantee's Water and Sewerage Board. The public health engineer will (a) develop criteria for the design of water supply systems as well as selection criteria for use in determining target communities to receive water supplies and excreta disposal systems, and (b) review design and plans for irrigation works, dams, canals, reservoirs and the like to determine potential health implications and make recommendations and alternatives to alleviate or minimize potential health problems. It is expected that such a review process will become institutionalized within the RWS Branch. To this end, one participant will be trained to the B.Sc. level in civil engineering (specializing in water related activities) in a U.S. university for three years. Upon the trainee's return to Swaziland, he will serve as a counterpart to the Public Health Engineer.

The project will also finance the construction of approximately 2,000 demonstrations to be conducted in the siting, design, and construction of improved pit latrines. The demonstrations will be conducted by four Senior Health Assistants. Materials for the latrine slab and vent pipe will be provided by the project for the demonstration units and the homesteads receiving demonstration units will provide labor for digging the pit and materials and labor for the construction of the superstructure.

Senior Health Assistants will receive basic, in-field training from the project's Environmental Sanitation Advisor. After an initial, intensive training period, the Senior Health Assistants will assume their posts as District Sanitation Leaders where they will, with assistance from the Environmental Sanitation Advisor, plan and implement the district sanitation program.

Forty-two Health Assistants will be trained in the siting and construction of improved pit latrines by the Senior Health Assistants. In each district the Health Assistants will also receive training in communication skills and community motivation to enhance their ability to inform rural people concerning the health benefits of the improved pit latrine as well as proper use and maintenance of the latrines.

Approximately two hundred community sanitation committees will be selected by target communities to serve as on-going resource people for the sanitation program. During the demonstration phase, these community teams (2-3 people) will work with, and receive training from the Senior Health Assistant and local Health Assistant in the construction of latrines. After the demonstration phase, the community team will be responsible for supervising and monitoring further latrine construction and will assist in the ordering of purchased materials; the Health Assistants will make periodic checks on work progress to ensure that proper procedures are being followed and to provide further instruction to the community teams in specific problem areas.

The Environmental Sanitation Advisor will also investigate alternative pit latrine designs and propose a series of basic designs to be used; the designs will allow for modifications to be made on the basis of the results of the demonstration program. Minimum design criteria will be developed for the program which will be followed in all circumstances. These criteria will cover such areas as siting and structural design. The technician will work with the four Senior Health Assistants for the first three month period in design and demonstration of pit latrines; this training will subsequently be passed on to Health Assistants and community sanitation teams during the demonstration program.

Selection criteria for choosing the homesteads to receive demonstration pit latrines will be developed by the social scientist (for the health education program) in conjunction with the Senior Health Assistants. These criteria will serve as a guide for placing demonstration units and will include, among other factors, family income levels and the availability of family labor.

### 3. Schistosomiasis Survey

A national survey will be conducted during the first three years of the project to determine the prevalence of schistosomiasis and other water-related diseases. A project-funded epidemiologist will lead the three year survey with the assistance of six Health Assistants and one Senior Health Assistant from the Ministry of Health Bilharzia Unit. The epidemiologist will provide training in survey and analysis and the project will finance a short-term consultant to develop the sample for the survey, in addition to funding the renovation of the laboratory and survey equipment. The information generated by the survey will provide insight into the prevalence and concentration of schistosomiasis and other parasitic

disorders. As data are developed, it will be passed to the Ministry of Health member of the Rural Water Supply Board, the Health Education Unit, and the Environmental Sanitation Unit, if necessary, in order that appropriate services can be provided to hyperendemic areas on a priority basis, as well as to determine which communities deserve priority in water, sanitation and health education programs.

B. Contribution of the Parties

1. A.I.D.'s Contribution

A.I.D.'s contribution will be made available in increments; subsequent contributions not obligated by this Agreement will be made available subject to the availability to A.I.D. of funds and mutual agreement of the Parties to proceed with the project. Figures in parentheses represent anticipated total life-of-project funding.

a. Technical Assistance (\$2,312,600). The project will provide 17 years of long-term technical assistance and eight months of short-term consultancies. Long-term assistance includes the services of: public health engineer, environmental sanitarian, health educator, social science advisor and epidemiologist. All advisors, except the latter two will have and work with Swazi counterparts.

b. Training (\$95,800). Seven years of academic training has been included in the project design. Two participants will attend degree programs and two will be sent for diploma courses. It is anticipated that the participants being trained for the Health Education Unit (HEU) - 1 M.Sc and 1 diploma in health education plus 1 diploma in graphic arts - will attend the University of Ibadan in Nigeria; the public health engineer will be trained at a U.S. university. As mentioned above, short-term in-country training will also be provided under the project.

c. Construction (\$282,700). The construction component of the project consists of five houses for U.S. technical staff, the renovation of the laboratory for the Bilharzia Unit, and the construction of a central office for the Health Education Unit (HEU).

d. Commodities (\$177,200). Commodities purchased specifically for this project will include five vehicles

for TA personnel, four motorcycles for the District Sanitarians (Senior Health Assistants), five overnight trailers for field workers who will stay in the field for several days at a time, laboratory equipment and supplies, health education materials, and certain construction materials (cement and pipe) for the demonstration pit latrine program.

e. Other (\$428,500). \$25,700 will be provided for the KAP study; \$80,800 for external evaluation; and \$299,700 is included as a 10 percent physical contingency. A total of \$22,300 is provided to cover local training costs and production of health education materials.

2. Government of Swaziland's Contribution (\$1,319,200)

a. Vehicle Maintenance and Operation (\$202,100).

b. Salaries and Wages (\$993,500). Includes salaries for counterparts, partial salaries for health education sanitation field workers, full salaries for Senior Health Assistants serving as District Sanitarians and Health Assistants seconded for schistosomiasis survey, salaries for clerks, secretaries, wages for drivers and daily hire laborers, and temporary hire for the KAP study.

c. In-Country Per Diem (\$13,200). For in-country (including overnight) travel of project technicians, Senior Health Assistants involved in survey work, and participants in local training courses.

d. Laboratory, Office, and House Furnishings (\$42,900).

House furnishings include the Grantee's standard package of support to expatriate advisors of similar rank.

e. Travel Costs for Academic Training (\$7,400).

f. Health Education Materials and Lab and Other Supplies (\$31,900).

g. Contingency (\$28,200).

C. Special Requirements and Implementation

Project Implementation Letters will describe in detail implementation and disbursement arrangements for the project, particularly requirements for satisfaction of conditions

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and covenants and the procurement and financing of construction and technical services.

The Grantee will establish the following positions by October 1 of the years listed below:

<u>Positions</u>	<u>Ministry</u>	<u>Year of Post Establ.</u>
Public Health Engineer	MOH	1980
Director/HEU	MOH/HEU	1981
Nurse-Educator	MOH/HEU	1981
Nurse-Educator (WHO-funded trainee)	MOH/HEU	1980
Typist	MOH/HEU	1980
Driver	MOH/HEU	1980
District Health Educators (4)	MOH	1983

In addition to the above new posts, the Grantee will promote (or otherwise provide) four Health Assistants to Senior Health Assistants by October, 1980.

#### D. Evaluation

Two external, in-depth evaluations are scheduled, one in FY 83 (October 1982) and one at the end of the project in FY 85 (August 1985). The first external evaluation will be conducted by an A.I.D. Evaluation Officer and two outside consultants over a 3-4 week period. Timeliness of the provision of inputs will be evaluated at this stage along with an assessment of output achievement. The evaluation team will compare targets actually achieved to those projected in the project paper and evaluate the achievement rate in light of project purpose attainment. If necessary, the evaluation team will recommend modifications regarding project inputs that may be required to accomplish the purpose and immediate goal of the project. In addition to the above, the team will evaluate the KAP study results for validity and use in developing a health education strategy and program content. On the basis of this assessment, the team will make specific recommendations regarding the measurement of goal achievement (using the KAP information as a baseline) including such factors as the type of study required, number and qualifications of study team members, the selection of specific communities and data bases from the KAP, and timing of the study.

The end of project evaluation will determine the effectiveness of the total project. This final evaluation will assess the degree to which the Grantee's institutional capacity has been developed to implement on-going programs in health education,

sanitation, and public health engineering. The evaluation will also determine the degree to which the schistosomiasis survey was used to prioritize the communities receiving the Grantee's services and the action taken on the recommendations of the public health engineer concerning the modification of water works designs.

E. Illustrative Financial Plan

The tables below indicate the anticipated contribution of the Parties to the project. While individual line items may be adjusted by Project Implementation Letter, any adjustment which has the effect of increasing A.I.D.'s contribution above the amount stated in Section 3.1, or decreasing the Grantee's contribution below the amount stated in Section 3.2 will only be given effect through formal amendment of this Agreement.

A.I.D. CONTRIBUTIONObligations and Expenditures by Fiscal Year (\$ 000)

<u>Expenditures</u>	<u>FY 79</u>	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>	<u>FY 85</u>	<u>TOTAL</u>
Technical Assistance	-	-	629.6	630.0	571.2	323.1	158.7	2,312.6
Training (U.S. & Third Country)	-	-	35.1	38.9	21.8	-	-	95.8
Commodities	-	62.1	58.3	13.8	15.1	13.3	14.6	177.2
Construction	-	282.7	-	-	-	-	-	282.7
Other Local Costs	-	-	30.7	17.3	-	-	-	48.0
Evaluation	-	-	-	-	29.4	-	51.4	80.8
Contingency	-	34.5	75.4	70.0	63.7	33.6	22.5	299.7
<b>TOTAL EXPENDITURES</b>	-	379.3	829.1	770.0	701.2	370.0	247.2	3,296.8
<u>Obligations</u>	640.0	800.0	587.0	700.0	569.8	-	-	3,296.8

## EXPENDITURES BY FISCAL YEAR - GOS (E 000, For FY80-85, E 1 = US\$1.19)

COMPONENT - HEALTH EDUCATION	FY 79 Cost	Infl. Rate	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	TOTAL
<u>A. Current</u>									
2 Public Health Nurse Educators (GR 16)	4140	5%		9.1	9.6	10.1	10.5	11.1	50.4
1 visual AID assistant (GR 8)	1620	5%		1.8	1.9	2.0	2.1	2.2	10.0
Health assistants (50% TMG)	1620	5%		16.1	26.3	37.4	49.6	52.1	181.5
RHVs (50% TMG)	240	5%		<u>39.7</u>	<u>48.6</u>	<u>58.4</u>	<u>68.9</u>	<u>80.4</u>	<u>296.0</u>
Sub-Total				66.7	86.4	107.9	131.1	145.8	537.9
<u>B. Incremental</u>									
(a) Round trip air fare (Nigeria)	1000	10%		1.8	2.0	-	-	-	3.8
(b) Public Health Nurse Educator (GR 17)	4680	5%		5.2	5.4	5.7	6.0	6.3	28.6
(c) Jr. Clerical Officer (GR 5)	1140	5%		1.3	1.3	1.4	1.5	1.5	7.0
(d) Driver (GR 6)	1272	5%		1.4	1.5	1.5	1.6	1.7	7.7
(e) Fuel maintenance, re- placement (2 vehicles @ 8 Km/L, 24,000 Km Yr/v)	E1.15/1	15%		9.1	10.5	12.1	13.9	16.0	61.6
(f) Education Materials				1.0	2.0	1.0	1.0	.5	5.5
(g) Furnishings for TA Houses	6100	10%		<u>13.4</u>	-	-	-	-	<u>13.4</u>
Sub-Total				33.2	22.7	21.7	24.0	26.0	127.6
Sub-Total A + B				99.9	109.1	129.6	155.1	171.8	665.5
Contingency @ 10% B (e,f,g)									<u>8.1</u>
TOTAL									<u>E673.6</u>
									<u>(\$801.6)</u>

## EXPENDITURES BY FISCAL YEAR - COS (E 000 For FY80-85.. E 1 = US\$1.19)

COMPONENT: SANITATION/ ENGINEERING	FY 79 Cost	Infl. Rate	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	TOTAL
<u>A. Current</u>									
Health Senior Assistants (4) Replace PCU's	2316	5%		10.2	10.7	11.3	11.8	12.4	56.4
12 P.Y. equivalent of Health Assistants Time	1620	5%		<u>21.4</u>	<u>22.5</u>	<u>23.6</u>	<u>24.8</u>	<u>26.0</u>	<u>118.3</u>
Sub-Total				31.6	33.2	34.9	36.6	38.4	174.7
<u>B. Incremental</u>									
(a) Round trip air fare to U.S. PH Engr. Counterpart	1700	15%		1.0		1.4			2.4
(b) Salary of PH Engr. Counterpart	5220/yr	5%		5.8	6.0	6.3	6.7	7.0	31.8
(c) H.A.'s per diem 60 days/yr x 12	E2/day	5%		1.6	1.7	1.8	1.9	2.0	9.0
(d) Consumables	400	10%		.5	.5	.6	.6	.7	2.9
(e) Furnishings for TA houses	6100	10%		13.4					13.4
(f) Fuel/maintenance/replacement of autos 25,000 km/yr	E1.15/1 8 km/1	15%		9.5	10.9	12.6	14.5	16.6	64.1
(g) 4 of motorcycles 20,000 km/yr	E1.15 @ 30 km/1			<u>4.1</u>	<u>4.7</u>	<u>5.4</u>	<u>6.2</u>	<u>7.1</u>	<u>27.5</u>
Sub-Total				35.9	23.8	28.1	29.9	33.4	151.1
Sub-Total A + B				67.5	57.0	63.0	66.5	71.8	325.8
Contingency @ 10% B (e,d,f,g)									<u>10.8</u>
TOTAL									<u>E336.6</u>
									<u>(\$400.6)</u>

of

TABLE IV

## EXPENDITURES BY FISCAL YEAR - GOS (E 000 For FY 80/85, E 1 = US\$1.19)

COMPONENTS: SCHISTOSOMIASIS SURVEY	FY 79 COST	INFL. RATE	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	TOTAL
<u>Current</u>									
Sr. Health Asst. GR 11 (1)	2316	5%		2.6	2.7	2.8	-	-	8.1
Health Asst. GR 8 (6)	1620	5%		10.7	11.3	11.8	-	-	33.8
electricity and maintenance of Laboratory	840	10%		<u>1.0</u>	<u>1.1</u>	<u>1.2</u>	-	-	<u>3.5</u>
SUB-TOTAL				14.3	15.1	15.8			45.2
<u>Incremental Contributions</u>									
(a) Lab Supplies	2940 p.a.	10%		3.6	3.9	4.3	-	-	11.8
(b) Consumables	840 p.a.	10%		1.0	1.1	1.2	-	-	3.5
(c) Durables	1680 p.m.	10%		1.9	1.9	2.0	-	-	5.8
(d) Additional personnel 4 x 72 days/yr. ea.	2/day	5%		.6	.7	.7	-	-	2.0
(e) Overnight expenses	2.50/night	5%		.7	.7	.7	-	-	2.1
(f) Fuel and maintenance (25,000 Km/yr)	1.15/litre	10%		4.8	5.5	6.3	-	-	16.6
(g) Furnishings for TA House	8/Km/1	10%		6.7	-	-	-	-	6.7
SUB-TOTAL	6100	10%		19.3	13.8	15.2			48.3
SUB-TOTAL A + B				33.6	28.9	31.0			93.5
Contingency @ 10% of B									4.8
TOTAL									<u>98.3</u>
TOTAL GOS Incremental Contribution			E 350,700						(\$117.0)
TOTAL GOS Contribution			E1,108,500						