

PROJECT
GRANT AGREEMENT
BETWEEN
THE
REPUBLIC OF BOTSWANA
AND THE
UNITED STATES OF AMERICA
FOR

BOTSWANA RENEWABLE ENERGY PROJECT
PROJECT NO. 633-0209

DATE: SEPTEMBER 26, 1980

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PROJECT GRANT AGREEMENT

Date: September 26 , 1980

Between

The Republic of Botswana ("Grantee")

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 understandings 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 consist of the introduction to villages of renewable energy technologies which are inexpensive and easily reproduced, and research, development and use of renewable energy technologies which can reduce dependence on fossil fuels. 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. It is anticipated that, subject to this Section, A.I.D.'s total contribution to the Project will be U.S. \$3,304,000.

(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 Seven hundred twenty-five thousand United States ("U.S." Dollars (\$ 725,000) ("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.

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. \$1,178,300, 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 26 , 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. Prior to any disbursements, or the issuance of any commitment documents pursuant to which disbursements will be made, the Grantee and USAID will agree upon a time-phased implementation plan for carrying out project activities.

SECTION 4.2. Additional disbursement. Prior to disbursement under the Grant, or to issuance by A.I.D. of documentation pursuant to which disbursement will be made, for each construction activity (except for A and E design work), 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) With respect to the BTC office unit, written evidence that additional funding for that unit is available;

(b) Final detailed plans and specifications and evidence that sites have been appropriated for each construction activity; and

(c) Where buildings are not being constructed by FAR or force account, tender documents and an executed contract for construction services with a firm acceptable to A.I.D.

Prior to any disbursement, or the issuance of any commitment documents under this Agreement to finance the ethanol fuel feasibility study, the Grantee will provide, in form and substance satisfactory to A.I.D., the scope of work for such study.

SECTION 4.3. Notification. When A.I.D. has determined that the conditions precedent specified in SECTION 4.1. have been met, it will promptly notify the Grantee.

SECTION 4.4. Terminal Dates for Conditions Precedent. 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 to in writing, and if all of the conditions specified in SECTION 4.2 have not been met within such date as A.I.D. may specify in Project Implementation Letters, 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 an evaluation program as part of the Project. Except as the Parties otherwise agree in writing, the program will include, during the implementation of the Project and at one or more points thereafter: (a) evaluation of progress toward attainment of the objectives of the Project; (b) identification and evaluation of problem areas of constraints which may inhibit such attainment; (c) assessment of how such information may be used to help overcome such problems; and (d) evaluation, to the degree feasible, of the overall development impact of the Project.

SECTION 5.2. Counterparts. The Grantee covenants that it will waive its requirement of bonded trainees in order to provide qualified counterparts or will make their positions equivalent to Government Service. *make every effort to provide qualified counterparts.* - BTC
[Signature]

SECTION 5.3. A.I.D.-Financed House. Except as otherwise agreed to by A.I.D. in writing, title to the Chief-of-Party's house in Gaborone financed by A.I.D. under this Agreement will vest in the Grantee. Notwithstanding that title is so vested, the Grantee covenants that it will reserve this house for the use of the Chief-of-Party working on this Project, or for the use of A.I.D.-financed technicians working on other A.I.D. projects in Botswana, until such time as the Parties agree that this house is no longer required for the support of this or other A.I.D. projects in Botswana.

SECTION 5.4. Project Vehicles. The Grantee covenants that it will provide vehicles on a timely basis for use by Project personnel and that such vehicles shall be used solely for Project purposes.

Article 6: Procurement Source

SECTION 6.1. Foreign Exchange Costs. Except as A.I.D. may otherwise agree in writing, and except as provided in the Project Grant Standard Provisions Annex, SECTION C.1(b) with respect to marine insurance, 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 Code 941 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").

Exceptions to this general procurement provision are as follows:

(a) Ocean transportation costs will be financed under the Grant only on vessels under flag registry of the United States or Botswana, except as A.I.D. may otherwise agree in writing. If A.I.D. determines either that there are no vessels under flag registry of Botswana generally available for ocean transportation, or that Botswana has no access to U.S. flag service, A.I.D. in a Project Implementation Letter may agree to finance under the Grant ocean transportation costs on vessels under flag registry of any country included in A.I.D. Geographic Code Book 941.

(b) Approximately \$70,000 of construction materials may have their source and origin in countries included in Code 935 of the A.I.D. Geographic Code Book as in effect at the time orders are placed or contracts entered into for such materials.

(c) Approximately \$20,000 of special RET commodities and equipment may have their source and origin in countries included in Code 935 of the A.I.D. Geographic Code Book as in effect at the time orders are placed or contracts entered into for such 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 Botswana ("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, (A) requests for reimbursement for such goods or services, or, (B) 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:

(1) by acquisition by A.I.D. with U.S. Dollars by purchase; or

(2) by A.I.D. (A) requesting the Grantee to make available the local currency for such costs, and (B) thereafter making available to the Grantee, through the opening or amendment by A.I.D. of Special Letters of Credit in favor of the Grantee or its designee, an amount of U.S. Dollars equivalent to the amount of local currency made available by the Grantee, which dollars will be utilized for procurement from the United States under appropriate procedures described in Project Implementation Letters.

The U.S. dollar equivalent of the local currency made available hereunder will be, in the case of subsection (b)(1) above, the amount of U.S. dollars required by A.I.D. to obtain the local currency, and in the case of subsection (b)(2) above, an amount calculated at the rate of exchange specified in the applicable Special Letter of Credit Implementation Memorandum hereunder as of the date of the opening or amendment of the applicable Special Letter of Credit.

SECTION 7.3. Other Forms of Disbursement. Disbursements 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 Botswana 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 Botswana at the highest rate of exchange which, at the time the conversion is made, is not unlawful in Botswana.

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
Ministry of Finance and Development Planning
Private Bag 008
Gaborone, Botswana

Alternate address for cables:

Finance
Gaborone, Botswana

To A.I.D.:

Mail Address: Director
USAID Mission
P.O. Box 90
Gaborone, Botswana

Alternate adress for cables:

American Embassy
Gaborone, Botswana

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, Ministry of Finance and Development Planning and A.I.D. will be represented by the individual holding or acting in the office of Mission Director, USAID/Botswana, 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 duly 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 Provisions Annex" (Annex 2) is attached to and forms part of this Agreement.

IN WITNESS WHEREOF, the Grantee 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.

THE REPUBLIC OF BOTSWANA

By: *O.K. Matambo* (Sept. 26, 1980)
O.K. Matambo

Title: Acting Permanent Secretary
Ministry of Finance & Development
Planning

UNITED STATES OF AMERICA

By: *C.L. A. Cohen* 26 Sep 80
C.L. A. Cohen

Title: Mission Director

AMPLIFIED DESCRIPTION

OF

THE PROJECT

BOTSWANA RENEWABLE ENERGY TECHNOLOGY

Project Number 633-0209

ANNEX 1

AMPLIFIED PROJECT DESCRIPTION

Except as specifically provided herein, and within the limits of the definition of the Project set forth in Section 2.1, elements of this Amplified Project Description may be changed by written agreement of the authorized representative of the Parties named in Section 8.2 without formal amendment of the Agreement.

ARTICLE 1. General Project Description

The Project will assist the Grantee to: (a) introduce village renewable energy technologies (RETs) which are easily reproduced and inexpensive and (b) research, develop and put into use renewable energy technologies which can reduce dependence on vulnerable supplies of increasingly expensive fossil fuels.

A. Village level RETs will concentrate primarily on the improved use of or substitutes for wood (solar ovens, improved-efficiency wood stoves, solar earthen batch water heaters, thatch insulation). Since there is little awareness at the village level that inexpensive alternatives are available which can save labor (wood collection) and money (to purchase wood, coal, paraffin, or diesel fuel), Project action in a pilot region will commence with a major awareness campaign. This will be followed by the introduction of appropriate RETs, as determined by a survey of village energy use and a sociologic needs assessment. There will be three pilot Districts: Kweneng, with a concentration on villages near Takatokwane in the sandveldt; Central District, with a focus on villages near Serowe; and a third District to be determined early in Project implementation. Project objectives will be fulfilled, not just by increased villager awareness of RETs and their potential, but by RET producers in villages, who will build and maintain RETs and who will be able to teach others the same skills. The major indicators of Project success will, thus, be the number of trained villagers who are able to produce working RETs and the number of households actually utilizing RETs.

B. Substantial efforts will be made to research, develop, and put into use RETs that will reduce Botswana's heavy dependence on increasingly expensive and increasingly vulnerable supplies of fossil fuels. Many of these RETs will benefit rural villagers directly (wind systems providing power for village water supplies, hand pumps, pedal-power sorghum dehullers, evaporative coolers), and others will benefit them indirectly through Government institutions such as health centers and schools (batch solar water heaters, photovoltaic electrification). A few other RETs will potentially benefit a broader spectrum of Botswana, including urban dwellers, through substituting renewable energy for fossil fuels (ethanol production, photovoltaic water pumping, institutional solar water heaters).

C. The Project will provide two long-term technicians - renewable energy specialist and sociologist - and 25 person-months of short-term consultants who will strengthen the capacity of the Botswana Technology Center ("BTC") to stimulate and support the development and use of renewable energy technologies. Project funds will also be

used to finance research and development of promising RETs through contracts with existing institutions such as the Rural Industries Innovation Center ("RIIC") in Kanye, Pelegano Village Industries ("PVI") in Gabane, and various Brigades. Project funds and personnel will, in addition, concentrate on encouraging the use of village-level RETs in the three pilot districts through extension and training activities.

ARTICLE II. Contribution of the Parties

In order to achieve the purpose and objectives of the Project, the Parties will make inputs to the Project as described below.

A. A.I.D. \$3,304,100

This section describes A.I.D.'s anticipated inputs to the Project. Funding levels indicated are the anticipated life-of-project funding. Funding indicated in excess of that actually obligated under this Agreement will be provided in future increments, subject to the conditions set forth in Section 2.2 of this Agreement.

1. The Technical Assistance and Project Staff - \$896,000

The Project will provide an expatriate Physical Scientist as the Chief of Party for the life of project (3 years). He/she will be assisted by a Social Scientist and 25 months of short-term consultants which include 3 months of architect services and 5 months for Energy Assessment Studies. Cost estimates include contractor overhead (50 percent of salaries) plus fee (GSA (10%) & fee (8%)). Local support for the two U.S. personnel will be provided by the USAID (not included in the contract). The project will also fund three administrative staff local contracts--a secretary, administrative assistant, and driver/messenger.

2. Commodities - \$886,900

AID will fund commodities required by the project. Media equipment and supplies (\$60,000), curriculum materials (\$66,000), office equipment (\$13,700), village domestic technologies and materials (\$30,000), laboratory and scientific equipment (\$146,000), shop equipment (\$23,000), water technician tool kits (\$40,000), and research and development project materials (\$441,800) will be funded. USAID, with REDSO assistance, will initiate procurement of U.S. items as soon as the project agreement is signed. The contractor, once selected, will be responsible for all local procurement. The commodities budget also includes 40 percent shipping and freight on all USA procurement and 8 percent handling fee (for GSA) or contractor overhead.

3. Training Costs - \$311,600

Local training expenses, short-term training (40 person mo.) in the USA, in-country P.C.V. training, and training equipment will be funded directly by the project.

4. Construction - \$266,000

The project will fund the construction and design of one-third of an energy efficient office building for the BTC (\$46,000), the RET chief of party's house (\$59,000), three village training facilities (\$33,000), and five buildings at RIIC/Kanye (\$63,000). The design of the BTC building, the RET chief of party residence, and VTFs will be performed by an architect with the TA contractor.

5. Support Costs - \$105,000

Support costs for staff travel and living expenses will be financed directly by the project.

6. Rent - \$24,000

It is anticipated that the chief of party will require rental accomodation until his house is built. Also, funds are included for rent of office space until the BTC building is completed.

7. Inflation - \$565,700; and Contingencies \$248,900

Inflation is calculated at 15 percent compounded for all Foreign Exchange Costs and 10 percent compounded for all local currency costs over 3 years. Inflation has already been included in the construction cost estimate. Commodities will be procured during the first year of the project. Contingency was calculated on 10 percent of the total USAID contribution.

B. G.O.B.

In addition to its general obligation under Section 3.2 of this Agreement to provide funds and resources needed for the Project, the GOB, as Grantee, will make the following inputs to the Project:

1. GOB Extension Staff Time - \$108,000

The G.O.B. will furnish percentages of district and village extension staff time in the three pilot areas. The GOB will also provide technical maintenance staff time to be trained in the various RET maintenance technologies.

2. GOB Ministerial Department Time - \$53,000

MRWA will provide two per cent of its electrical department's time to the Project, because of their interest in photovoltaic and wind power and electricity generation. MOE will provide five per cent of its Non-formal Education Department's time to the Project to assist in the RET public awareness program and presentation, preparation of media and training materials.

3. Batswana RET Staff - \$249,000

Six Batswana counterparts to the expatriate technicians and four village facilitators will be provided for the duration of the Project.

4. Commodities - \$213,000

Three 4 x 4 vehicles are to be purchased by the GOB for the project, as well as one pickup truck and four mopeds (small motorcycles). The GOB will also provide maintenance and petrol for these vehicles. In additions, the GOB will purchase 20 anemometers for Project use.

5. Research and Development - \$300,000

The GOB is providing \$120,000 to finance photovoltaic generated electrification of two health centers, \$60,000 for advanced wind systems research, and \$120,000 for other research and development activities to be identified during the course of Project implementation.

6. Land - \$44,000

Building plots for the BTC building in Gaborone, the Chief of Party's house in Gaborone, four buildings on the RIIC compound in Kanye, and for VIF's in the three pilot districts will be provided.

7. Housing - \$12,600

Housing for five Peace Corps Volunteers will be provided for three years. These houses will be equivalent to a Type IV government standard house. Four PCVs will be located in Kanye and one in Gaborone.

8. Inflation - \$198,700

Inflation for the GOB contribution was calculated at 10% compounded annually.

C. Other Donors

The U.S. Peace Corps has agreed to provide the RET Project with the services of five volunteers (special recruits for skills) over the life of the Project. The Parties to this Agreement will expedite their actions to implement the Peace Corps participation. Peace Corps will fund the U.S. training costs in renewable energy technologies for these volunteers.

D. Recurrent Costs

Following a major USAID/GOB evaluation, supplemented by outside specialists, near the end of project implementation, the GOB will decide at what level it will continue financial support to the RET project. If the GOB decides to carry on the project at the same level, the current costs per year are estimated at \$397,494. This cost figure will include BTC personnel, vehicle maintenance/petrol, staff maintenance and support, local training costs, additional operative commodities to be purchased, staff housing, existing GOB personnel, 10% inflation, and 10% contingency.

ARTICLE III. Implementation

A. Administration

USAID will appoint a Project Manager, who will have primary responsibilities for all AID inputs. In-country administrative support for the RET long-term technicians will be the responsibility of the USAID Field Support Office. BHC has primary responsibility for housing and maintenance.

The Project will be officed in the BTC. The BTC Managing Director will devote half of his time to the RET Project, along with one-fourth of the time of the BTC Engineer and of the BTC Information Officer. The RET Chief of Party will work closely with the BTC management. The BTC Board of Directors will have approval authority for annual implementation plans developed by the Chief of Party in collaboration with the BTC Managing Director. These plans will describe proposed uses of USAID project funds and personnel time over the following 12 months. Once such a plan is approved by the BTC Board, individual expenditures will not require Board review and approval.

BTC will contract with RIIC and other private organizations and sub-warrant funds to appropriate GOB organizations to carry out specific Research and Development activities. (Construction at RIIC will be funded through a grant of Project funds from BTC rather than a contract.) The RET Energy Specialist will be responsible for determining that contract scopes of work are sufficiently detailed

to allow for periodic monitoring, that contract costs are reasonable, and that contracts comply with AID Host-country Contracting Procedures (AID Handbook 11).

The Botswana Renewable Energy Coordinating Committee (BRECC) will provide guidance to the Project during implementation.

B. Procurement

Procurement of all U.S.-origin commodities will be a responsibility of the USAID Project Manager. The U.S. General Services Administration or a private U.S. firm will be the procurement agent and an 8% handling fee has been included in the budget. Local and AID Geographic Code 935 procurement will be undertaken by the contractor Chief of Party as soon as that technician arrives in Botswana.

USAID will prepare the documentation required to elicit proposals from U.S. firms interested in implementing the project. This documentation will be cleared with the GOB and GOB representatives will be welcome to participate in the Contractor Selection process in AID/Washington. Under a direct AID contract the Contractor will be responsible for:

- all technical assistance (long and short-term including architectural services)
- all participant training
- procurement of local and Geographic Code 935 commodities

The house in Gaborone for the Chief of Party will be constructed by the GOB under FAR arrangements. The plans, specifications and the fixed-amount for reimbursement will be agreed upon by AID and the GOB prior to initiating construction.

C. Implementation Schedule

Once the prime technical assistance contract has been awarded to a U.S. firm, the Energy Specialist/Chief of Party will go to Washington, D.C., for a country orientation, and proceed to Gaborone, where hiring of local staff will commence, in cooperation with BTC. Local commodity procurement will also be initiated then, as will establishment of the RET office in BTC. Shortly after arrival of the party chief, the social scientist will arrive in Botswana and will begin developing the Needs Assessment Survey and the Village Awareness Campaign, along with the energy specialist and short-term consultant.

The selection process for four facilitators and six counterparts will begin soon after the expatriate staff arrives in Botswana. Once these personnel have been selected, all RET staff will participate in a RET workshop at RIIC. The expatriate staff will be at RIIC for four weeks, and the Botswana for eight weeks. When the workshop period is completed, the sociologist and counterpart and the facilitators will meet with the District Councils and identify pilot sites and district extension staff for RET training. Prior to start of field work at the pilot sites, a VTC/Kgotla meeting will be held to obtain their permission and the Chief's blessing to work in their village. Village candidates will also be identified at this time for RET training at the village training facilities. This process will be followed in all eight pilot sites in the three Districts.

At RIIC in Kanye, the energy specialist counterpart, three PCVs and their counterparts will work with RIIC staff to develop identified RETs adapted to Botswana conditions and to disseminate

information to GOB agencies and private enterprises interested in producing and maintaining these RETs. The RET energy specialist and the BTC energy specialist, located in Gaborone, will work in Kanye 15-25% of their time.

The Training Unit, under the auspices of the Chief of Party and counterpart, will prepare all training manuals and awareness campaign materials to be used at RIIC and VTFs. The Non-formal Education Department of the Ministry of Education will help to design the training and campaign materials. The Training Unit will also undertake periodic internal village process evaluations with the Extension Unit and participate in the formal evaluations scheduled for October 1982 and January 1984.

PROJECT IMPLEMENTATION SCHEDULE

- | | |
|----------------|---|
| Aug. 80: | Project Agreement signed
PIO/I prepared for contractor
GOB starts procurement of project vehicles |
| Oct. 80: | AID/W releases RFP |
| Sept. 80: | RIIC construction designed
PIO/C completed for U.S. procurement |
| Oct. 80: | RIIC construction starts |
| Dec. 80: | Contractor selection |
| Feb. 81: | Contract signed with contractor for project implementation |
| April 81: | Chief of Party in Washington, D.C. for orientation |
| May 81: | Chief of Party in Botswana
Procurement for local commodities in Botswana by contractor
PCVs start training in U.S.
RIIC construction complete
BTC and project house design starts |
| June 81: | Social Scientist in Botswana
PCV orientation in Botswana |
| June/July 81: | BTC and project house architectural design completed |
| June/Aug. 81: | Facilitator (4) and counterpart (6) selection begins
Sociologist and RET specialist design needs
Assessment Survey and Village Awareness Campaign w/ short-term consultants |
| Sept. 81: | BTC and house construction starts
PCVs, Sociologist and RET specialist start training workshop at RIIC (4 weeks)
All local procurement complete |
| Sept./Oct. 81: | Facilitators and counterparts training at RIIC (8 weeks) |

- Nov./Dec. 81: Sociologist, counterpart and the facilitators meet with three District Councils and identify pilot sites and government extension staff for RET training.
- Dec. 81: VTF Design period
- Feb. 82: Construction of three Village Training Facilities (VTF) begins
VDC/kgotla meeting held at Central I, village candidates identified for training, Chief's permission granted
Field work starts
- March 82: Project house construction complete
- April 82: VDC/kgotla meeting held at Kweneng I, village candidates identified for training, chief's permission granted
Field work starts in Kweneng I
VTF construction complete
Central I kgotla candidates at VTF (2-3 weeks)
- May 82: Training of GOB Extension Agents Group I at RIIC (2-3 weeks)
Central I kgotla museum in place
- June 82: VDC/kgotla meeting at Third District I village candidates identified for training, chief's permission granted
Field work starts at Third District I
Kweneng I kgotla candidate at VTF (2-3 weeks)
- July 82: Kweneng I kgotla museum in place
- Aug. 82: VDC/kgotla meeting at Central II, village candidates identified for training, chief's permission granted
Field work starts at Central II
Third District I kgotla candidates at VTF (2-3 weeks)
- Sept. 82: BTC building construction complete
Third District I kgotla museum in place
GOB extension agent Group II training at RIIC (2-3 weeks)
- Oct. 82: VDC/kgotla meeting held at Kweneng II, village candidates identified for training, chief's permission granted
Field work starts at Kweneng II
Central I evaluation of village process
Mid-project evaluation by GOB/USAID
- Nov. 82: Central II kgotla museum in place

- Dec. 82: Kweneng I evaluation of village process
Kweneng II kgotla candidates at VTF (2-3 weeks)
VDC/kgotla meeting at Third District II, village
candidates identified for training, chief's
permission granted
Field work starts at Third District II
- Jan. 83: Kweneng II kgotla museum in place
- Feb. 83: Third District II kgotla candidates at VTF (2-3 weeks)
Third District I evaluation of village process
VDC/kgotla meeting at Central III, village candidates
identified for training, and chief's permission
granted
Field work starts at Central III
- Mar. 83: Third District II kgotla museum in place
- Apr. 83: Central II evaluation of village process
VDC/kgotla meeting at Kweneng III, village candidates
identified for training, and chief's permission
granted
Field work starts at Kweneng III
Central III kgotla candidates at VTF (2-3 weeks)
- May 83: Central III kgotla museum in place
- June 83: Kweneng III kgotla candidates at VTF (2-3 weeks)
Kweneng II evaluation of village process
Sociologist contract reviewed
- July 83: Kweneng III kgotla museum in place
- Aug. 83: Third District II evaluation of village process
- Oct. 83: Central III evaluation of village process
- Dec. 83: Kweneng III evaluation of village process
- Jan. 84: Joint project evaluation by GOB/USAID to determine
follow-up
- Apr. 84: Chief of Party leaves Botswana
- July 85: PACD

ARTICLE IV. Evaluation

Evaluation is a built-in and crucial component of this project. It is designed to insure that project purposes and assumptions as stated in the logical framework of the Project Paper are being attained. It also attempts to measure what changes have taken place and the impact of the project over its life. There are evaluations planned during the life of this Project, as indicated below. Evaluation will be coordinated by the Chief of Party and counterpart. The basic evaluation is integral to the Project and connects the continuing village survey procedure, the technical performance analysis and input from the Extension Support Unit, and Village participants into

an on-going documentation process. These inputs will be reviewed formally every four months by the Internal Program Evaluation Group for strengths, weaknesses, problems, and successes. Standardized procedures and formats will be utilized for collecting quantitative data and other qualitative information and for presenting these data to the Program Evaluation Group. The Program Evaluation Group in the Training Unit will be responsible initially for identifying and verifying village needs, corresponding technologies, etc. This group will also be responsible for coordinating annual and final evaluation reports.

In addition to the internal evaluation process, there will be two project evaluations. The first, in October 1982, will be carried out jointly by USAID and the GOB. The second, scheduled for January 1984, will include the GOB, outside RET and evaluation specialists. The first will focus on the project implementation process to date, and the second will review the success of the three-year project and should provide the basis for a GOB decision on the scope of a follow-on project.

ARTICLE V. Illustrative Financial Plan

The following table sets forth the planned contributions of the Parties. Changes may be made to the Illustrative Financial Plan by written agreement of the representatives of the Parties identified in Section 8.2 without formal amendment of the Agreement, provided such changes do not cause (1) AID's Grant contribution to exceed the amount set forth under Section 3.1, or (2) the Government contribution to be less than the amount set forth under Section 3.2.

TOTAL PROJECT FUNDING (\$ 000)

(By Operational Year)

<u>Category</u>	<u>AID INPUTS</u>				<u>GOB INPUTS</u>			
	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Total</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Total</u>
A. Technical Assistance	346.0	242.5	245.5	834.0	17.7	17.7	17.6	53.0
B. Project Local Staff	19.0	21.0	22.0	62.0	119.0	119.0	119.0	357.0
C. Commodities	522.4	266.4	98.1	886.9	108.0	-	-	108.0
D. Training Costs	70.0	123.1	118.5	311.6	-	120.0	180.0	300.0
E. Construction	266.0	-	-	266.0	44.0	-	-	44.0
F. Support Costs	45.0	41.0	43.0	129.0	39.2	39.2	39.2	117.6
G. Inflation and Contingency	296.6	264.6	253.4	814.6	32.8	59.2	106.7	198.7
TOTAL	1565.0	958.6	780.5	3304.1	360.7	355.1	462.5	1178.3
H. Peace Corps					225.0	-	-	225.0

ANNEX 2

PROJECT GRANT STANDARD

PROVISIONS

DEFINITIONS:

As used in this Annex, the "Agreement" refers to the Project Grant Agreement to which this Annex is attached and of which this Annex forms a part. Terms used in this Annex have the same meaning or reference as in the Agreement.

Article A: Project Implementation Letters

To assist Grantee in the implementation of the Project, A.I.D. from time to time, will issue Project Implementation Letters that will furnish additional information about matters stated in this Agreement. The Parties may also use jointly agreed upon Project Implementation Letters to confirm and record their mutual understanding on aspects of the implementation of this Agreement. Project Implementation Letters will not be used to amend the text of the Agreement, but can be used to record revisions or exceptions which are permitted by the Agreement, including the revision of elements of the amplified description of the Project in Annex 1.

Article B: General Covenants

SECTION B.1: Consultation

The Parties will cooperate to assure that the purpose of this Agreement will be accomplished. To this end, the Parties, at the request of either, will exchange views on the progress of the Project, the performance of obligations under this Agreement, the performance of any consultants, contractors, or suppliers engaged on the Project, and other matters relating to the Project.

SECTION B.2: Execution of Project

The Grantee will:

- (a) carry out the Project or cause it to be carried out with due diligence and efficiency, in conformity with sound technical, financial, and management practices, and in conformity with those documents, plans, specifications, contracts, schedules or other arrangements, and with any modifications therein, approved by A.I.D. pursuant to this Agreement; and

- (b) provide qualified and experienced management for, and train such staff as may be appropriate for the maintenance and operation of the Project, and, as applicable for continuing activities, cause the Project to be operated and maintained in such manner as to assure the continuing and successful achievement of the purposes of the Project.

SECTION B.3: Utilization of Goods and Services

- (a) Any resources financed under the Grant will, unless otherwise agreed in writing by A.I.D., be devoted to the Project until the completion of the Project, and thereafter will be used so as to further the objectives sought in carrying out the Project.
- (b) Goods or services financed under the Grant, except as A.I.D. may otherwise agree in writing, will not be used to promote or assist a foreign aid project or activity associated with or financed by a country not included in Code 935 of the A.I.D. Geographic Code Book as in effect at the time of such use.

SECTION B.4: Taxation

- (a) This Agreement and the Grant will be free from any taxation or fees imposed under laws in effect in the territory of the Grantee.
- (b) To the extent that (1) any contractor, including any consulting firm, any personnel of such contractor financed under the Grant, and any property or transaction relating to such contracts, and (2) any commodity procurement transaction financed under the Grant, are not exempt from identifiable taxes, tariffs, duties or other levies imposed under laws in effect in the territory of the Grantee, the Grantee will, as and to the extent provided in and pursuant to Project Implementation Letters, pay or reimburse the same with funds other than those provided under the Grant.

SECTION B.5: Reports, Records, Inspections, Audit

The Grantee will:

- (a) Furnish A.I.D. such information and reports relating to the Project and to this Agreement as A.I.D. may reasonably request;
- (b) Maintain or cause to be maintained, in accordance with generally accepted accounting principles and practices,

consistently applied, books and records relating to the Project and to this Agreement, adequate to show, without limitation, the receipt and use of goods and services acquired under the Grant. Such books and records will be audited regularly, in accordance with generally accepted auditing standards, and maintained for three years after the date of last disbursement by A.I.D.; such books and records will also be adequate to show the nature and extent of solicitations of prospective suppliers of goods and services acquired, the basis of award of contracts and orders, and the overall progress of the Project toward completion; and

- (c) Afford authorized representatives of a Party the opportunity at all reasonable times to inspect the Project, the utilization of goods and services financed by such Party, and books, records, and other documents relating to the Project and the Grant.

SECTION B.6: Completeness of Information

The Grantee confirms:

- (a) That the facts and circumstances of which it has informed A.I.D., or cause A.I.D. to be informed, in the course of reaching agreement with A.I.D. on the Grant, are accurate and complete, and include all facts and circumstances that might materially affect the Project and the discharge of responsibilities under this Agreement;
- (b) That it will inform A.I.D. in timely fashion of any subsequent facts and circumstances that might materially affect, or that it is reasonable to believe might so affect, the Project or the discharge of responsibilities under this Agreement;

SECTION B.7: Other Payments

Grantee affirms that no payments have been or will be received by any official of the Grantee in connection with the procurement of goods or services financed under the Grant, except fees, taxes or similar payments legally established in the country of the Grantee.

SECTION B.8: Information and Marking

The Grantee will give appropriate publicity to the Grant and the Project as a program to which the United States has contributed, identify the Project site, and mark goods financed by A.I.D., as described in Project Implementation Letters.

Article C: Procurement Provisions

SECTION C.1. Special Rules

- (a) The source and origin of ocean and air shipping will be deemed to be the ocean vessel's or aircraft's country of registry at the time of shipment.
- (b) Premiums for marine insurance placed in the territory of the Grantees will be deemed an eligible Foreign Exchange Cost, if otherwise eligible under Section C.7(a).
- (c) Any motor vehicles financed under the Grant will be of United States manufacture, except as A.I.D. may otherwise agree in writing.
- (d) Transportation by air, financed under the Grant, of property or persons, will be on carriers holding United States certification, to the extent service by such carriers is available. Details on this requirement will be described in a Project Implementation letter.

SECTION C.2: Eligibility Date

No goods or services may be financed under the Grant which are procured pursuant to orders or contracts firmly placed or entered into prior to the date of this Agreement, except as the Parties may otherwise agree in writing.

SECTION C.3: Plans, Specifications, and Contracts

In order for there to be mutual agreement on the following matters, and except as the Parties may otherwise agree in writing:

- (a) The Grantee will furnish to A.I.D. upon preparation,
 - (1) Any plans, specifications, procurement or construction schedules, contracts, or other documentation relating to goods or services to be financed under the Grant, including documentation relating to the prequalification and selection of contractors and to the solicitation of bids and proposals. Material modifications in such documentation will likewise be furnished A.I.D. on preparation;
 - (2) Such documentation will also be furnished to A.I.D., upon preparation, relating to any goods or services, which, though not financed under the Grant, are deemed

by A.I.D. to be of major importance to the Project. Aspects of the Project involving matters under this subsection (a)(2) will be identified in Project Implementation Letters;

- (b) Documents related to the prequalification of contractors, and to the solicitation of bids or proposals for goods and services financed under the Grant will be approved by A.I.D. in writing prior to their issuance, and their terms will include United States standards and measurements;
- (c) Contracts and contractors financed under the Grant for engineering and other professional services, for construction services, and for such other services, equipment or materials as may be specified in Project Implementation Letters, will be approved by A.I.D. in writing prior to execution of the contract. Material modifications in such contracts will also be approved in writing by A.I.D. prior to execution, and
- (d) Consulting firms used by the Grantee for the Project but not financed under the Grant, the scope of their services and such of their personnel assigned to the Project as A.I.D. may specify, and construction contractors used by the Grantee for the Project but not financed under the Grant, shall be acceptable to A.I.D.

SECTION C.4: Reasonable Price

No more than reasonable prices will be paid for any goods or services financed, in whole or in part, under the Grant. Such items will be procured on a fair and, to the maximum extent practicable, on a competitive basis.

SECTION C.5: Notification to Potential Suppliers

To permit all United States firms to have the opportunity to participate in furnishing goods and services to be financed under the Grant, the Grantee will furnish A.I.D. such information with regard thereto, and at such times, as A.I.D. may request in Project Implementation Letters.

SECTION C.6: Shipping

- (a) Goods which are to be transported to the territory of the Grantee may not be financed under the Grant if transported either;
 - (1) On an ocean vessel or aircraft under the flag of a country which is not included in A.I.D. Geographic Code 935 as in

effect at the time of shipment, or

- (2) On an ocean vessel which A.I.D. by written notice to the Grantee has designed as ineligible, or
 - (3) Under an ocean or air charter which has not received prior A.I.D. approval.
- (b) Costs of ocean or air transportation (of goods or persons) and related delivery services may not be financed under the Grant, if such goods or persons are carried;
- (1) On an ocean vessel under the flag of a country not, at the time of shipment, identified under the paragraph of the Agreement entitled "Procurement Source: Foreign Exchange Costs," without prior written A.I.D. approval, or
 - (2) On an ocean vessel which A.I.D., by written notice to the Grantee, has designated as ineligible, or
 - (3) Under an ocean vessel or air charter which has not received prior A.I.D. approval.
- (c) Unless A.I.D. determines that privately owned United States flag commercial ocean vessels are not available at fair and reasonable rates for such vessels,
- (1) At least fifty percent (50%) of the gross tonnage of all goods (computed separately for dry bulk carriers, dry cargo liners and tankers) financed by A.I.D. which may be transported on ocean vessels will be transported on privately owned United States-flag commercial vessels, and
 - (2) At least fifty percent (50%) of the gross freight revenue generated by all shipments financed by A.I.D. and transported to the territory of the Grantee on dry cargo liners shall be paid to or for the benefit of privately owned United States-flag commercial vessels. Compliance with the requirements of (1) and (2) of this subsection must be achieved with respect to both any cargo transported from U.S. ports and any cargo transported from non-U.S. ports, computed separately.

SECTION C.7: Insurance

- (a) Marine insurance on goods financed by A.I.D. which are to be transported to the territory of the Grantee may be financed as a Foreign Exchange Cost under this Agreement provided:
- (1) Such insurance is placed at the lowest available competitive rate, and
 - (2) Claims thereunder are payable in the currency in which such goods were financed or in any freely convertible currency.

If a Grantee (or government of Grantee), by statute, decree, rule, regulation, or practice discriminates with respect to A.I.D.-financed procurement against any marine insurance company authorized to do business in any State of the United States, then all goods shipped to the territory of the Grantee financed by A.I.D. hereunder will be insured against marine risks and such insurance will be placed in the United States with a company or companies authorized to do a marine insurance business in a State of the United States.

- (b) Except as A.I.D. may otherwise agree in writing, the Grantee will insure, or cause to be insured, goods financed under the Grant imported for the Project against risks incident to their transit to the point of their use in the Project; such insurance will be issued on terms and conditions consistent with sound commercial practice and will insure the full value of the goods. Any indemnification received by the Grantee under such insurance will be used to replace or repair any material damage or any loss of the goods insured or will be used to reimburse the Grantee for the replacement or repair of such goods. Any such replacements will be of source and origin of countries listed in A.I.D. Geographic Code 935 as in effect at the time of replacement, and, except as the Parties may agree in writing, will be otherwise subject to the provisions of the Agreement.

SECTION C.8: U.S. Government-Owned Excess Property

The Grantee agrees that wherever practicable, United States Government-owned excess personal property, in lieu of new items financed under the Grant, should be utilized. Funds under the Grant may be used to finance the costs of obtaining such property for the Project.

Article D: Termination; Remedies

SECTION D.1: Termination

Either Party may terminate this Agreement by giving the other Party 30 days written notice. Termination of this Agreement will terminate any obligations of the Parties to provide financial or other resource, to the Project pursuant to this Agreement, except for payment which they are committed to make pursuant to noncancellable commitments entered into with third parties prior to the termination of this Agreement. In addition, upon such termination A.I.D. may, at A.I.D.'s expense, direct that title to goods financed under the Grant to be transferred to A.I.D. if the goods are from a source outside Grantee's country, are in a deliverable state and have not been off-loaded in ports of entry of Grantee's country.

SECTION D.2: Refunds

- (a) In the case of any disbursement which is not supported by valid documentation in accordance with this Agreement, or which is not made or used in accordance with this Agreement, or which was for goods or services not used in accordance with this Agreement, A.I.D., notwithstanding the availability or exercise of any other remedies under this Agreement, may require the Grantee to refund the amount of such disbursement in U.S. Dollars to A.I.D. within sixty (60) days after receipt of a request therefor.
- (b) If the failure of the Grantee to comply with any of its obligations under this Agreement has the result that goods or services financed under the Grant are not used effectively in accordance with this Agreement, A.I.D. may require the Grantee to refund all or any part of the amount of the disbursements under this Agreement for such goods or services in U.S. Dollars to A.I.D. within sixty (60) days after receipt of a request therefor.
- (c) The right under subsection (a) or (b) to require a refund of a disbursement will continue, notwithstanding any other provision of this Agreement, for three years from the date of the last disbursement under this Agreement.
- (d) (1) Any refund under subsection (a) or (b), or (2) any refund to A.I.D. from a contractor, supplier, bank or other third party with respect to goods or services financed under the Grant, which refund relates to an unreasonable price for or erroneous invoicing of goods or services, or to goods that did not conform to specifications, or to services that were inadequate, will (A) be made available first for the cost of goods and services required for the Project, to the extent justified, and

(B) the remainder, if any, will be applied to reduce the amount of the Grant.

- (e) Any interest or other earnings on Grant funds disbursed by A.I.D to the Grantee under this Agreement prior to the authorized use of such funds for the Project will be returned to A.I.D. in U.S. Dollars by such Grantee.

SECTION D.3: Nonwaiver of Remedies

No delay in exercising any right or remedy accruing to a Party in connection with its financing under this Agreement will be construed as a waiver of such right or remedy.

SECTION D.4: Assignment

The Grantee agrees upon request, to execute an assignment to A.I.D. of any cause of action which may accrue to the Grantee in connection with or arising out of the contractual performance or breach of performance by a Party to a direct U.S. Dollar contract with A.I.D. financed in whole or in part out of funds granted by A.I.D. under this Agreement.

Amendment No. 1 ·
to
Grant Agreement
between
the
Republic of Botswana
and the
United States of America
for
Botswana Renewable Energy Project
Project No. 633-0209

Date: May 13, 1981

Allotment No. 137-50-633-00-69-11

Appropriation No. 72-1111037

1. This amendment No. 1 to AID Project No. 633-0209 Grant Agreement obligates an additional increment of funds, in accordance with Section 2.2 Incremental Nature of the Project, in the amount of one million United States Dollars (\$1,000,000) to further implement the activities provided for under the original Grant Agreement. Section 3.1 of the Agreement is amended accordingly by deleting the figures "725,000" and substituting therefore the figures "1,725,000."
2. The following table indicates the status to date of AID financing for this project:

<u>Category</u>	<u>LOP Budget</u>	<u>1980 Obligation</u>	<u>This Obligation</u>	<u>Balance for 1982</u>
Technical Assistance	1045.4	278.0	204.5	562.9
Commodities	1111.5	306.5	375.9	429.1
Training	453.5	53.5	123.6	266.4
Other Costs (including local staff, construction & support)	693.7	87.0	296.0	310.7
	3304.1	725.00	1000.0	1579.1

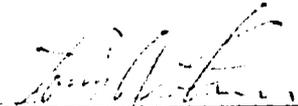
3. All other terms and conditions of the original Grant Agreement for this project are hereby made applicable to the assistance provided by this amendment.

For the Government of Botswana

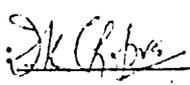
AG 
 Permanent Secretary
 Ministry of Finance & Development Planning

Date: 13/1/81

For the Government of the
 United States of America


 USAID Director

Date: 13/1/81

Clearance: 
 USAID Acting Controller

PDBAB108

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Amendment No. 2
to
Grant Agreement
between
the
Republic of Botswana
and the
United States of America
for
Botswana Renewable Energy Project
Project No. 633-0209

Date: March 30, 1982

Appropriation No. 72-1121037

Budget Plan Code: GESA-82-21633-KG13

1. This amendment No. 2 to AID Project No. 633-0209 Grant Agreement obligates an additional increment of funds, in accordance with Section 2.2 Incremental Nature of the Project, in the amount of one million five hundred and seventy-nine thousand United States Dollars (\$1,579,000) to further implement the activities provided for under the original Grant Agreement. Section 3.1 of the Agreement is amended accordingly by deleting the figures "1,725,000" and substituting therefore the figures "3,304,000."

2. The following table indicates the status to date of AID financing for this project:

<u>Category</u>	<u>LOP Budget</u>	<u>FY1980</u>	<u>FY1981</u>	<u>This Obligation</u>	<u>Balance for 1983</u>
Technical Assistance	1,693,700	278,000	467,600	948,100	-
Local Staff	62,000	-	40,000	22,000	-
Staff Travel Costs	105,000	-	62,000	43,000	-
Research Activities	539,900	51,300	154,000	334,600	-
Local Training	91,600	53,500	38,100	-	-
Construction	266,000	77,700	188,300	-	-
Support Costs	168,000	68,000	50,000	50,000	-
Other Costs	550	550	-	-	-
Inflation	377,350	195,950	-	181,300	100
Contingencies					
Total	3,304,100	725,000	1,000,000	1,579,000	100

3. All other terms and conditions of the original Grant Agreement for this project are hereby made applicable to the assistance provided by this amendment.

For the Government of Botswana

For the Government of the
United States of America



Permanent Secretary
Ministry of Finance and Development
Planning

USAID Director

Date:

30/3/1982

Date:

30 March 1982

Clearance:


USAID Controller