

PROJECT AGREEMENT  
BETWEEN THE DEPARTMENT OF STATE, AGENCY FOR INTERNATIONAL DEVELOPMENT (AID),  
AN AGENCY OF THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AND

THE DEPARTMENT OF RURAL DEVELOPMENT  
AN AGENCY OF THE GOVERNMENT OF THE REPUBLIC OF ZAIRE

TWO AG

CLEARANCE  
F&A *CM*  
ProjMgt *SB*  
PROG *WB*  
ADMIN *MT*  
CONT *SB*  
GOZ Dept of  
Plan *SB*

The above-named parties hereby mutually agree to carry out a project in accordance with the terms set forth herein and the terms set forth in any annexes attached hereto, as checked below:

- PROJECT DESCRIPTION ANNEX A  FOREIGN CURRENCY STANDARD PROVISIONS ANNEX  
 STANDARD PROVISIONS ANNEX  SPECIAL LOAN PROVISIONS ANNEX

This Project Agreement is further subject to the terms of the following agreement between the two governments, as modified and supplemented:

- GENERAL AGREEMENT FOR TECHNICAL COOPERATION DATE N/A  
 ECONOMIC COOPERATION AGREEMENT DATE N/A  
 (other) DATE N/A

1. PROJECT/ACTIVITY NO. 660-0080 PAGE 1 OF 32 PAGES

2. AGREEMENT NO. 78-4 3.  ORIGINAL OR REVISION NO. \_\_\_\_\_

3. PROJECT/ACTIVITY TITLE  
FISH CULTURE EXPANSION

5. PROJECT DESCRIPTION AND EXPLANATION  
(See Annex A etc.)

6. AID APPROPRIATION SYMBOL 72-1181006 7. AID ELEMENT SYMBOL 856-50-760-00-39-81

DISTRIBUTION

- DIR 1  
CONT 2  
PROG 2+  
F&A 2  
DLO 2  
GOZ/DOP2  
GOZ/DAD2  
AID/W Mail  
Room 18  
GC (Cert) 2  
AAG/Nairobi  
2

REDSO/WA

REF:  
Project  
Paper dated  
8/19/78

8. AID FINANCING	PREVIOUS TOTAL (A)	INCREASE (B)	DECREASE (C)	TOTAL TO DATE (D)
<input checked="" type="checkbox"/> DOLLARS <input type="checkbox"/> LOCAL CURRENCY				
(a) Total	-0-	₡ 464,000	-0-	₡ 464,000
(b) Contract Services	-0-	₡ 68,200	-0-	₡ 68,200
(c) Commodities	-0-	₡ 349,800	-0-	₡ 349,800
(d) Other Costs	-0-	₡ 46,000	-0-	₡ 46,000
9. COOPERATING AGENCY FINANCING - DOLLAR EQUIVALENT				
\$1.00 = Z. 0.80				
(a) Total	-0-	Z 1,198,235	-0-	Z 1,198,235
(b) Rep. of Rural Dev. Res. Budget F.	-0-	Z 698,235	-0-	Z 698,235
(c) Counterpart	-0-	Z 500,000	-0-	Z 500,000
(d) Funds				

10. SPECIAL PROVISIONS (Use Additional Certification Sheets, if Necessary)

See attached Project Grant Agreement and Project Agreement Annex 1.

11. DATE OF ORIGINAL AGREEMENT September 15, 1978 12. DATE OF THIS REVISION 13. ESTIMATED FINAL CONTRIBUTION DATE

14. FOR THE COOPERATIVE GOVERNMENT OR AGENCY  
Prof. Kenabatu Kapinga  
SIGNATURE: *Kenabatu Kapinga* DATE: 9/15/78  
TITLE: Directeur, Etat Département de Développement Rural.

15. FOR THE AGENCY FOR INTERNATIONAL DEVELOPMENT  
Norman L. Sweet  
SIGNATURE: *Norman L. Sweet* DATE: 9/15/78  
TITLE: USAID Director.

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AID Project Number 660-0080

Project Grant Agreement

Dated: \_\_\_\_\_, 1978

Between The Republic of Zaire (Grantee)

and

The United States of America, acting through  
The Agency for International Development (AID)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 undertakings by the Grantee of the Project described below, and with respect to the financing of the Project by the Parties.

ARTICLE 2: The ProjectSection 2.1. Definition of the Project:

The Project, consists of assistance to the Department of Rural Development (DRD) to:

- (a) Establish a research and training capability at the fish station at Gandajika, Kasai Oriental,
- (b) Establish and operate a series of sub-regional fingerling production and distribution centers.
- (c) Create a system of fish culture extension, including the training at Gandajika of Zairian extension agents and their equipping and assignment in the field.
- (d) Develop a capacity within the Department of Rural Development to manage the overall program.

Annex I, attached, amplifies the above description of the Project. Within the limits of the above definition of the Project, elements

as named in Section 2.1, without further agreement of the

**Section 2.2. Time Period - Utilization of Funds:**

Within the overall Project Assistance Completion Date (PACD) stated in this Agreement, AID, based upon consultation with the Grantee, may specify in Project Implementation Letters appropriate time periods for the utilization of funds granted by AID 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, AID pursuant to the Foreign Assistance Act of 1961, as amended, agrees to grant the Grantee under the terms of this Agreement not to exceed four hundred sixty-four thousand United States Dollars (\$ 464,000).

The Grant may be used only to finance foreign exchange costs, as defined in Section 6.1. 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 the Grantee for the Project will be not less than the equivalent of U.S. \$ 3,395,169 including costs borne on an in-kind basis.

**Section 3.3. Project Assistance Completion Date (PACD):**

- (a) The PACD, which is March 31, 1981, 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 AID may otherwise agree in writing, AID 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 AID or any bank described in Section 7.1. no later than nine (9) months following the PACD, or such other period as AID agrees to in writing. After such period, AID giving notice in writing to the Grantee, may at any time or times reduce the amount or 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. Disbursement:

Prior to any dollar disbursement under the Grant, or to the issuance by AID of documentation pursuant to which disbursement will be made, the Grantee will, except as the Parties may otherwise agree in writing, furnish to AID in form and substance satisfactory to AID:

- (a) documentary evidence of a bank account in Kinshasa which will serve as a depository for the local currency of the budget;
- (b) documentary evidence of the deposit in said bank account of the local currency equivalent of \$ 500,000 to cover the cost of the first year's operations.

Section 4.2. Additional Disbursements:

Prior to any local currency disbursements under the Project or to the issuance by the Grantee of any documentation pursuant to which disbursement will be made, the Grantee will, except as the Parties may otherwise agree in writing, furnish to AID in form and substance.

- (a) a statement of the name(s) of the persons or acting in the office of the Grantee specified in Section 8.2. together with specimen signatures for each person specified in such statement, including a one-paragraph description of the procedures to be established for effecting withdrawals from the local currency accounts.

Section 4.3. Notification:

When AID 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 ninety (90) days from the date of this Agreement, or such later date as AID may agree to in writing, AID, at its option, may terminate this Agreement by written notice to the Grantee.
- (b) If all the conditions specified in Section 4.2. have not been met within 180 days from the date of the Agreement, or such later date as AID may agree to in writing, AID, at

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its option, may cancel the then undisbursed balance of the Grant.

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 following format will be used as the basis for evaluation.

(a) Evaluation Plan:

The Project will be reviewed or evaluated twice during the proposed period of USAID direct support.

The first evaluation should occur about fourteen months following the date of the signature of this Project Agreement; this evaluation will be a joint DRD/USAID/PC initiative and will focus on the following areas:

- (1) quality of GOZ cooperation in project implementation
- (2) data collection measuring trend of project's accomplishments against end project objectives as defined in the project Logical Framework section.

The second and final USAID sponsored evaluation will occur at the end of about two years when the project is scheduled for completion. This evaluation will include at least one project appraiser, not a member of USAID, DRD or Peace Corps and will compare on the ground project results with the project objectives as presented in the Project Paper.

ARTICLE 6: Procurement Source

Section 6.1. Foreign Exchange costs:

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 AID 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 AID 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.

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 AID may otherwise agree in writing, their origin in Zaire ("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 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 AID, with necessary supporting documentation as prescribed in Project Implementation Letters, (A) requests for reimbursement of such goods or services, or (B) requests for AID to procure commodities or services in Grantee's behalf for the Project; or
  - (2) by requesting AID to issue Letters of Commitment for specified amounts (A) to one or more U.S. banks, satisfactory to AID, committing AID to reimburse such banks for payments made by them to contractors or suppliers, under Letters of Credit or otherwise, for such goods or service, or (B) directly to one or more contractors or suppliers, committing AID 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 AID to the contrary. Such other charges as the Parties may agree to may also be financed under the Grant.

Section 7.2. 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 7.3. Rate of Exchange:

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

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:           Commissioner of State  
Mail Address:            Department of Rural Development  
                              B.P. 15076  
                              Kinshasa I  
                              Republic of Zaire

To AID:                    USAID Director  
Mail Address:            American Embassy  
                              310 Avenue des Aviateurs  
                              Kinshasa,  
                              Republic of Zaire

Cable Address:           American Embassy, Kinshasa

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 Comm. of State, Department of Rural Dev. and AID will be represented by the individual holding or acting in the Office of Director, USAID, 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 AID, which may accept as duly authorized any instrument signed by such representatives in implementation of this Agreement, until receipt or written notice of revocation of their authority.

Section 8.3. Standard Provisions Annex:

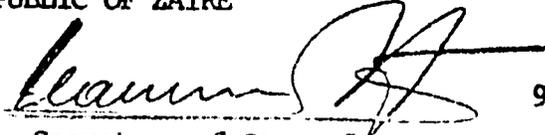
A "Project Grant Standard Provisions Annex" (Annex 2) is attached to and forms part of this Agreement.

Section 8.4. Language of Agreement:

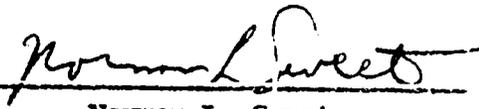
This Agreement is prepared in both English and French. In the event of ambiguity or conflict between the two versions, the English language version will control.

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 ZAIRE

By:  9/15/78  
Secretary of State for  
Rural Development  
Title: \_\_\_\_\_

UNITED STATES OF AMERICA

By:  9/15/78  
Norman L. Sweet  
USAID DIRECTOR  
Title: \_\_\_\_\_

Fish Culture Expansion

660-0080

PROJECT AGREEMENT ANNEX 1

AMPLIFIED PROJECT DESCRIPTION

PART I: ADMINISTRATIVE ARRANGEMENTS

A. The DRD will assume overall management responsibility for the project through its newly created Office of Fish Culture. The associate Peace Corps Director for Fisheries Programs (APCD/F) will serve as technical advisor to the director of this office on all technical, management, policy and operational matters. The office will have a deputy director with primary responsibility for the management/logistical aspects of the project. This office will be located in the Department in Kinshasa.

The DRD Office of Fish Culture (DRD/OFC) will appoint a regional coordinator for each of the three regions where the project is operating. These Regional Coordinators who will be located in the field will have responsibility for management of the extension activities and the operation of the fingerling production centers in their regions and all logistical/administrative activities related to them. The DRD/OFC with the assistance of the APCD/F will also be responsible for liason with the activities of INAZA and coordination of short term technical assistance as outlined in the IP. This will include development of statements of work, coordination of in-country travel, and logistics, etc.

The director and T.A. advisor of the Gandajika Research and Training Center will be directly responsible to the Director of the DRD/OFC who will be assisted by the APCD/F. They are not responsible to the regional coordinator for Kasai Oriental.

B. The contract technical advisor for the Gandajika Research and Training Center will be hired under a Host Country Contract financed by USAID, with the Department of Rural Development. Salary Payments will be processed on a quarterly basis on the submission by the contractor of a voucher countersigned by the director of the DRD Office of Fish Culture. Payment will be made by AID/Zaire to a bank specified by the contractor. Local currency living allowances will be processed automatically and paid on a quarterly basis by the DRD to a bank account specified by the contractor. The Department of Rural Development will be responsible for the provision of housing and furniture for the contractor on a standard equivalent to that of the DRD director of the Gandajika station. Funding for all the above will be provided for in the contract. The contractor will be provided with roundtrip transportation from home of record to Gandajika to be provided in accordance with the relevant USG regulations and to be processed by USAID.

C. The Project Management Unit made up of the DRD/OFC and APCD/F, will be responsible for the specification of procurement requirements for material and technical assistance, including the specification of items, development of statements of work, initiation of procurement activities and supervision of technical assistance in

<sup>which</sup>  
the field. USAID does not have any project administrative function will process procurement requests in accordance with AID regulations and will provide advice and counsel to the project management unit as may be required to ensure that requests, specifications and procedures are in accordance with the relevant USG/AID regulations.

The following should be noted in assessing the ability of the DRD/OFC to implement the above responsibilities, and the operational aspects of the project in general. Peace Corps Volunteer manpower/technical assistance in this project will provide an exceptionally high ratio of technical assistance to Zairian personnel. The Peace Corps presence will be at all levels (local, regional and national) and in all activities (extension, Gandajika Center, fingerling production centers and UNAZA). The APCD/F will advise the DRD/OFC in the management and operation of the project as technical advisor to the DRD/OFC. The project will benefit from the services of technical advisor for the establishment and operation of the Gandajika Research and Training Center throughout the life of the project. The DRD has specifically agreed to provide a deputy project director with administrative abilities. The establishment of a liason with UNAZA will provide for formal and informal technical assistance throughout the life of the project and assure the availability of more highly trained technical personnel for the project in later years. Finally, the project will provide formal training for the director of the DRD/OFC in both the technical aspects of fish culture and more general program management skills, as well as an opportunity to visit and study national fish culture extension programs in other francophone African countries.

D. Long Term Technical Advisor: The project provides for the assignment of a contract technical advisor to the Gandajika Center. This individual will serve as technical advisor to the director of the Center and will be responsible to the project management unit (jointly, the director of the DRD Office of Fish Culture and the APCD/F). During the initial stages of the project, the current manager of the Gandajika Fish Station Center will be retained on an interim basis as center manager and the technical advisor will assume full responsibility for the start up of the Gandajika Center, including operation of the ponds, construction, training, etc. Once a permanent individual has been identified to assume the position of director of the center, the contractor will serve as technical advisor to the director.

Specific responsibilities of the contractor will include the following activities. During the first six months, the contractor will, in cooperation with the project management unit and the Peace Corps Volunteers assigned to the Gandajika center, initiate all construction and renovation activities on the basis of a prioritized listing of activities to be developed jointly by the contractor and the project management unit. The contractor

will, with the assistance of short term TA, be responsible for the planning and implementation of the initial training cycle. The contractor, in cooperation with the project management unit, will be responsible for the selection of trainees and will have responsibility for their final evaluation and selection. In cooperation with UNAZA and short term technical assistance provided by the project, the contractor will outline and implement a preliminary research program.

Following the assignment of a permanent individual as director of the center, the contractor will be responsible for advising the director on all activities related to the research and training functions of the center and the center's general management and operation. For the life of the project, decisions concerning staffing, trainee selection and qualifications, and budgetary/financial issues will remain the joint responsibility of the director and the contractor and will require joint concurrence.

The contractor's direct line of responsibility will be to the project management unit for the efficient and effective operation of all aspects of the Gandajika Center, as an employee of the Department of Rural Development Office of Polish Culture.

FISH CULTURE EXPANSION PROJECT

PEACE CORPS

DEPARTMENT OF RURAL DEVELOPMENT

Project Management Unit  
Conseiller Technique/Project Director  
(PC-FSR) (DRD)

UNAZA

Gandajika Center  
Cons. Tech./Directeur  
(USPSC) (DRD)

Regional Coordinator  
Bandundu  
(DRD)

Regio

Regional Coordinator  
Kasai Occidental  
(DRD)

Regional Coordinator  
Kasai Oriental  
(DRD)

FPC — EA's

Fingerling Center  
Cons. Tech/Manager  
(PCV) (DRD)

Extension  
Agents  
(PC/DRD)

FPC — EA's

/// F I S F A R M E R S ///

PART II: DESCRIPTION OF PROJECT

A. Summary Project Description

1. Goal

This project will contribute to the increased level, availability and the nutritional value of food production for the low income majority in Zaire — especially the rural poor who are the majority.

a. Measure of Goal Achievement

The project's goal will be achieved directly through the production of fish by small farmers. The measure of its achievement will be through observation of the total number of farmers participating and the total quantity of fish produced.

b. Means of Verification

The progress of the project toward goal achievement will be verified through regular reports from field extension agents concerning farmer participation, production, etc.

c. Assumptions

It is assumed that the GOZ will maintain or provide appropriate policies with respect to fish culture and marketing which will encourage this activity by small farmers. The GOZ must allocate sufficient funds to support the Department of Rural Development to guarantee project continuity.

2. Project Purpose

The purpose of this project is to establish a small farmer-oriented fish culture extension program in parts of three regions of Zaire (Bandundu, Kasai Occidental and Kasai Oriental). The project has four components:

- Establishment of a research and training capability at the Gandajika fish station.
- Establishment and operation of four fingerling production and distribution centers.
- Creation of a system of fish culture extension, including the training of Zairian extension agents and their equipping and assignment in the field.
- Development of an institutional capacity within the

Department of Rural Development to manage the overall program.

a. End of Project Status

By the end of two years, the following minimal conditions will exist:

- All additions and renovations to the Gandajika station will be completed.
- The Gandajika training center will be actively training DRD personnel.
- Forty extension sites will be in operation.
- Four fingerling production centers will be in operation.
- The Project Management Unit will be operational to the extent that all key national and local positions will be filled and key personnel will have completed training (project director at advanced level and technicians at Gandajika).
- A program of project-related research will have been designed and will be in the process of implementation, involving the Gandajika center and UNAZA.
- A scope of work for a broad-based study of the technical, organizational and policy aspects of a nationally expanded fish culture program will have been carried out on behalf of DRD by project funded consultants.

b. Means of Verification

At the end of the first year of the project, a joint USAID/PC/DRD evaluation will be conducted. Extension agents reports as well as the reports and records of the Gandajika research and training center and the fingerling production centers will also provide means of verification.

c. Assumptions

The achievement of the project purpose will depend on the following external factors:

- The GOZ must meet its financial obligation to support the Department of Rural Development during the project period and be prepared to

assume the necessary financial obligations required to guarantee project continuity at the end of the present project.

- Peace Corps must be able to meet the technical assistance needs of the project through the timely recruitment, training and placement of Volunteers.
- It is assumed that the expanded project will continue to encounter the same level of popular acceptance that the pilot project has enjoyed to date.

### 3. Outputs

- a. Establishment of the Gandajika research and training center:
  - Thirty Zairians will have been trained in fish culture techniques and extension methods.
  - The physical plant will be constructed or renovated, as required, including the construction of a combination dormitory/dining/classroom facility, staff housing and an administration building.
  - A long range research program will have been planned in coordination with UNAZA researchers.
  - An extension agent training program outline will have been developed and tested, with assistance from UNAZA and project funded consultants.
- b. The scope of work for an analysis of the technical, administrative and policy implications of a further expansion of fish culture in Zaire will have been prepared by project funded consultants.
- c. Four fingerling production and distribution centers will have been established:
  - The centers will be staffed and in operation.
  - Each center will have stocked and in operation a rotating tool fund for sale through the extension program.
- d. A fish culture extension system will have been established:
  - Thirty DRD fish culture extension agents will be operating in the field.

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- 800 farmers will enter the program in each year of the project.
- 80 and 720 metric tons of fish will be produced in the first and second years of the project, respectively.

e. A DRD office of fish culture will have been established and staffed and its director will have participated in an advanced training program at a site outside of Zaire.

#### 4. Inputs

##### A. USAID Contribution

1. <u>Technical Assistance</u>		\$ <u>80,600</u>
a. Gandajika center co-manager 24mm	30,000	
b. Short term technical assistance (fish culture, training design, national fish culture survey) 7.5mm	27,300	
c. Support cost (travel, materials and transport, per diem)	23,300	
2. <u>Transportation</u>		\$ <u>235,800</u>
a. Trucks (1)	24,000	
b. Pick-ups (6)	72,000	
c. Motorcycles (69) or Mobylettes	69,000	
d. Parts, Tools, Equipment	70,800	
3. <u>Equipment and Materials</u>		\$ <u>12,500</u>
a. Equipment and Materials	3,500	
b. Training equipment	15,000	
c. Extension Materials	40,000	
d. Technical Equipment	33,000	
4. <u>Participant Training</u> (Short term in Africa and U.S.)		\$ <u>9,600</u>
5. <u>Other</u> (Travel to U.S. for UNAZA researchers)		\$ <u>6,400</u>
6. <u>Inflation</u>		\$ <u>6,100</u>
	<b>TOTAL</b>	<b>\$ <u>463,000</u></b>

##### B. F.C. Contribution

1. Support of Peace Corps Volunteers	\$ 950,000
2. Inflation	\$ 27,000
	<b>TOTAL</b>
	<b>\$ <u>977,000</u></b>



## B. Detailed Description of Project

The project purpose is to establish a small farmer-oriented fish culture extension program in parts of three Regions of Zaire (Bandundu, Kasai Occidental and Kasai Oriental). The project has four components:

1. Establishment of a research and training capability at the fish station at Gandajika, Kasai Oriental.
2. Establishment and operation of a series of sub-regional fingerling production and distribution centers.
3. Creating of a system of fish culture extension, including the training at Gandajika of Zairian extension agents and their equipping and assignment in the field.
4. Development of a capacity within the Department of Rural Development to manage the overall program.

### 1. Gandajika Research and Training Center

The project envisions the renovation of existing buildings at the Gandajika fish station, as well as the construction of dormitory, dining, classroom and storage facilities and some staff housing. The station currently has 2 hectares of ponds plus 3 hectares of land suitable for construction of additional ponds. The Gandajika station will be staffed by DDR personnel and two or more Peace Corps Volunteers (fisheries biologists). They will design and carry out a program of applied research to complement the extension program. The following general areas have been identified for research:

- Evaluation of locally available feed stuffs, new management techniques, etc., for use in small-farmer fish culture.
- Evaluation of new species of fish to determine their pond culture potential.

The Gandajika station will also be used to provide technical training to fish culture extension agents and other technical personnel. Training programs will be offered at several different levels. The first priority will be to provide recycling for DDR personnel already working in fish culture. The second will be to offer a training program for new extension agents. The station will also offer technical seminars for small farmers. Finally, fish culture training will be provided to personnel from other governmental and nongovernmental (PVO) organizations and projects.

## 2. Fingerling Production Centers

Four fingerling production centers will be established in the project area. Each center will be comprised of three to six ponds, a combined office and storeroom, and housing for a station manager. The sites for the centers will be selected during the course of the project. Wherever feasible, existing pond complexes will be renovated, rather than new ponds, etc. being constructed to avoid a major capital outlay.

These centers' primary function will be to reproduce Tilapia nilotica fingerlings for sale to farmers during the initial phase of expansion of the extension program. It is projected that this role will eventually become redundant since the project is designed to make the farmers totally independent of government infrastructure in terms of fingerling production. Such centers are proposed, on the basis of the original experience of the Peace Corps Pilot Project, Bandundu, when it was found that the lack of an adequate, accessible supply of fingerlings was the greatest single bottleneck in the extension program. Farmers were occasionally obliged to wait as long as a year after the completion of their ponds before fingerlings were available.

The fingerling production centers will also serve as subcenters of the Gandajika research and training center. They will be used for farmer seminars and as sites for follow-on extension training for fish culture extension agents. They will stock and distribute hand tools and other tools and other items of equipment which have been identified as major constraints to the expansion of small fish production. They will also be used as arms of the research program to test new technologies under the specific conditions. When new species are to be introduced through the extension program, the subcenters will greatly aid in the rapid distribution of breeding stock.

## 3. Extension System

The most important element of the project is the establishment of an extension system. The highly successful model developed in Peace Corps' Bulungu Zone pilot project will be replicated, with adaptations where appropriate to account for regional and other differences. This model is based on highly mobile extension agents working intensively with a selected group of farmers to present a complete production technology package. While all extension activities to date have been carried out by Peace Corps Volunteers, the same system has been proven replicable by Zairian extension agents.

In the initial stage of the project, most new extension sites will be opened by the assignment of a Peace Corps

Volunteer extension agent, who will be joined and eventually replaced by a Zairian counterpart as soon as the first extension agent trainees successfully complete the Gandajika training program. The focus of the extension methodology is to minimize farmer reliance on imported (from outside his immediate area) technologies and outside sources of assistance or inputs.

In areas where for various reasons (e.g. low population density, already existing and effective development projects, etc.) project-supported fish culture extension agents are not assigned, other ways of encouraging fish culture in that area will be implemented, such training personnel from other (e.g. PVO) projects to carry out extension work. This is already being done by the pilot project in cooperation with Development Progress Populaire/Idiofa and the Projet Agricole Protestant/Kikwit (PAP).

#### 4. Department of Rural Development

The project will provide for the development of two capabilities in the Department of Rural Development (DRD): 1) project management and planning, and 2) technical expertise in fish culture. The DRD has already created a project management unit at the national level. The need for project-related administrative structures at the local level will be determined in the course of the project. A director (a university trained agronomist) has been named by DRD and a position for a deputy director with administrative responsibilities has been created. The director will receive a technical orientation from Peace Corps. Funds for further training (e.g. at either the FAO fish culture center in Bouake, Ivory Coast or Bangui, CAF) are provided in the project. Initially, local level administrative support for the project will be provided through DRD's already established Regional offices (Kikwit, Kananga and Mbuji-Mayi).

The project includes the development of a scope of work for broader study aimed at providing guidance for the GOZ and DRD with respect to the technical, organizational and policy aspects of a nationally expanded fish culture program. The need for a more highly trained cadre of personnel for DRD will be met by the National University of Zaire (UNAZA) which is developing a program in fisheries biology and aquaculture. By the end of this project, graduate personnel will be available from this program to assume positions of a more advanced nature in the project. The project also provides some institution building and research support for the UNAZA program and relies on UNAZA for other technical services wherever feasible.

<sup>1</sup> Agronomist

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Technician training needs for the project will be met through the Gandajika training center. This includes personnel for the operation of the center itself, personnel for the fingerling production centers and extension personnel. This training will be provided by Peace Corps Volunteers, utilizing a modified version of the training model successfully implemented by Peace Corps for training its personnel for the pilot project in Zaire, as well as in Cameroun and CAE. The necessary modifications will be developed and refined during the project life.

The DED will incorporate all direct costs for its personnel and its regular operating budget. The project provides for training the project director and initial operating funds for the Gandajika training center to train DED personnel, as well as a modest amount of institutional support for ONAZA's program development. DED will assume all costs of operation for the Gandajika station at the end of the project.

#### 5. End of Project Status

By the end of two years, the following minimal conditions will exist:

1. All additions and renovations to the Gandajika station will be completed.
2. The Gandajika training center will be actively training DED personnel.
3. Forty extension sites will be in operation.
4. At least three fingerling production centers will be in operation.
5. The project management unit will be operational to the extent that:
  - a. All key national and local positions will be filled.
  - b. Key personnel will have completed training (project director at advanced level and technicians at Gandajika)
6. A program of project-related applied research will have been designed and in the process of implementation, involving the Gandajika research center and ONAZA.
7. A scope of work for the design of a broad-based study of the technical and organizational aspects and feasibility of a nationally expanded fish culture program will have been completed.

C. Financial Plan

The Financial Plan which follows is subject to change by the representatives named in Section 8.2 of the Project Agreement, without formal amendment of the Agreement. The Financial Plan represents the intention of the Project Agreement signatory parties, as outlined in the Project Paper.