

ACTION MEMORANDUM FOR THE DIRECTOR

August 25, 1986



From : Samuel Scott, Project Development Officer

Subject: Tropical Root and Tuber Research Project (631-0058): Project Paper
Equivalent/Review/ApprovalProblem:

To obtain your approval of the attached unsolicited Tropical Root and Tuber Research Proposal as a project paper equivalent document. The subject proposal was submitted by the University of Maryland Eastern Shore (UMES), the lead university, Alabama A&M University and Florida A&M University, all 1890 land grant universities that will provide technical assistance to this project. Your approval of this final proposal as a project paper equivalent document is a necessary prerequisite to your authorization of the project.

Background:

When the land grant system was first established in 1863 by the US government, blacks were not permitted to attend schools of higher education. In 1890, however, land grant universities were established by the US government so that black students could earn degrees in agriculture and mechanics. Since their establishment, much of the work of these universities has concentrated on aiding low resource farmers in the US, especially black farmers. This experience, coupled with their agricultural research capabilities, provides them with a unique capability to help farmers in developing countries. The above three universities all provide expertise in different areas thus providing a wealth of experience.

The original concept for this project began in 1984 when three universities submitted a proposal to AID/W. Although AID/W thought the idea was sound, a travel grant to Africa was provided so the universities could further develop the proposal. Many discussions were held with governments, African institutions, and international centers such as IITA.

As the proposal evolved, it appeared that the effort should be concentrated in Cameroon so IRA/MESRES and UMES worked closely together to define the scope of the project. The result of this collaboration is the final proposal. It was due to discussions with IRA that the universities decided to focus their project on cassava, yam and cocoyam and sweet potato crops and to concentrate on research in seed multiplication, processing and utilization as well as to place a stronger emphasis on training. USAID/Cameroon and AID/W provided the format AID uses in preparing projects as well as information on existing research projects supported by it or other donors. After March 1986, AID began to work with UMES, providing suggestions on how to refine the project concept and carry out the implementation. These modifications and revisions are fully documented in the Mission PDE and ARD files. A chronology of events is attached summarizing key actions.

Discussion:

Attached for your review and consideration is the subject proposal submitted by UMES. On July 31, 1986, AID/W re delegated PID and PP approval authority to the USAID/Cameroon Director at a level of \$5.8 million. See State 238217. The Mission has submitted the Congressional Notification. Since this proposal was unsolicited, there is not a formal project paper, but the Mission Project Review Committee finds that the final proposal contains all the elements of the usual PP and adequately addresses issues which are normally raised in the review of food crop research projects. As stated above, your approval of this final proposal as a project paper equivalent document is a necessary prerequisite to your authorization of the project. You may then authorize the project by signing the attached project authorization document after reviewing the accompanying action memorandum.

Recommendation:

That in accordance with the foregoing authority, you approve the UMES proposal as a project paper equivalent document for the Tropical Root and Tuber Research Project with a proposed life-of-project funding of \$5.8 million over five years.

Approved: _____

Disapproved: _____

Jay Johnson, Director
USAID/Cameroon

Date: Aug 24, 1986

Clearances:

ARD:BJudy BJ Judy 8/25
ARD:JBalis _____
PRM:BKosheleff _____
CON:MSmith _____
RLA:DKeene _____ (draft)

Drafted: PDE:ABrewer ABrewer 08/22/86

- Attachments (A) Tropical Root and Tuber Food Crops Research Proposal
Development Chronology
- (B) State 238217; 257302; 268862
- (C) PIO/T

ATTACHMENT A

Tropical Root and Tuber Research Proposal Development Chronology

- Early/84 10 year \$40 million unsolicited proposal to establish a Germplasm Center in Cameroon submitted by presidents of three 1890 universities. Project would link scientists at these universities with African scientists in several countries to conduct research and share experiences.
- Aug 84 Exploratory visit by UMES to Cameroon. Met with IRA at Ekona and Njombe and the director of Cameroon National Root Crops Improvement Program to explore research areas that could be subject of collaborative research between IRA and the 1890 universities.
- Oct./Nov 84 UMES second visit (more technical than first) to Cameroon to prepare proposal as a follow up to the recommendations of their first trip. Proposed 12 technical advisors. Would collect germplasm of yams, sweet potatoes, cocoyams and cassava and be involved in processing and marketing in addition to agronomic aspects. IRA Ekona and Njombe decided as project location with outreach to other African countries. Pilot center to be located in Ekona. UMES will revise proposal and submit it to AID/W.
- Jun 85 S & T received UMES 5 year \$11 million unsolicited proposal "The Development of Unexploited Tropical Root, Tuber and Legume crops to Improve Small Farmer Production in Republic of Cameroon."
- 16 Jul 85 AID/W forwards UMES proposal. The research is limited to Cameroon and covers plant breeding research in five crops. AID/W has recommended some changes but would also like mission review.
- Jul/Aug 85 Discussion of proposal between IRA and UMES. USAID/Cameroon facilitates these discussions.
- 13 Aug 85 Mission cabled AID/W (06653) results of meeting with IRA on proposal and internal mission discussions. Mission supports a modified proposal. GRC wants more focus on 1) applied research in rapid increase of seedstock multiplication and distribution 2) applied research on Harvesting/Storage/Processing/Utilization and 3) formal and informal training. The suggested budget level is \$3-5 million.
- 16 Sep 85 AID/W informed UMES of its decision not to fund the project. UMES said it would try to get proposal reconsidered by AID.
- 01 Oct 85 Letter informing Administrator that even the modified version suggested by USAID/Cameroon had been rejected by AID/W. Proposal was not accepted because of the following issues 1) focused only on one country 2) too many crops would be studied 3) research facilities have to be constructed 4) USAID/Cameroon was unable to provide any budget support and 5) funding for even the scaled down version was unavailable.

- 20 Dec 85 AID/W received revised proposal after several meeting with UMES. Revised proposal sent to IRA and USAID.
- 26 Dec 85 Yaounde (01648) to AID/W with IRA views on revised proposal and to request visit by universities. Cocoyams should be included, more emphasis placed on biological research on seed multiplication, methods and system, and utilization/processing of roots and tubers harvested for market. Mission supports project if IRA's issues can be accommodated. University representatives should work directly with IRA. Mission requested PID-E authority.
- 01 Mar 86 State (063117) Report of meeting with AFR/CCWA, Cameroon Mission Director, AFR/TR and UMES. 3 member team will come to Cameroon. AFR/TR wants 1) a description, programmatic and operational linkages with IITA Cameroon agricultural research system and 2) that the U.S. thesis/dissertation work to be carried out in Cameroon. Purpose of UMES visit is to finalize arrangements, prepare revised proposal and begin working on protocol with GRC that will be needed for cooperative agreement.
- 05 Mar 86 Yaounde (01861) Mission suggested new draft of proposal be completed and reviewed to refine the project concept and implementation before the departure of UMES team in order to resolve all issues.
- 24 Mar 86 Yaounde (2454) anticipates PID-E or PID approval delegated to USAID/C. Protocol not necessary before preparing a cooperative agreement, but requirement usually appears as a CP.
- 28 Mar 86 State (095810) Before Delegation of Authority for PID-E is given, Action Memo for AA/AFR providing description of proposed activity and funding estimates is needed.
- 31 Mar 86 Orientation meeting with UMES team who has arrived in Cameroon to refine project concept and implementation.
- 06 Apr 86 Yaounde (02945) Mission told AID/W that it has already moved beyond PID-E stage. Requested that AID/W formally record PID-E approval. Following that, under DOA 140, Mission Director will authorize project and execute cooperative agreement. Funding level is \$3.5 million.
- 19 Apr 86 Project Committee Review of proposal.
- 21 Apr 86 State (123464) USAID/C given PID-E approval to review UMES proposal and authorize project NTE \$3.5 million.
- 01 May 86 Yaounde (03760) USAID/C informs AID/W that third and last periodic review with UMES found that it had met all of issues raised in AID/W review except funding level. New funding level is \$5.8 million. Mission has set aside \$694,000 from OYB (Yaounde 3648).

Mission states that proposal had moved beyond PID-E and is at threshold of finalizing complete package. If AID/W maintains that mission return to PID stage it should provide copies of memos etc. made at AID/W review sessions. Those will form PID-E package. Alternatively should formally record PID-E approval.

- 16 May 86 Project Committee meeting held to review final draft of proposal, and final draft version of protocol. UMES prepares and transmits protocol to MESRES.
- 17 May 86 Last UMES team member leaves Cameroon.
- 05 Jun 86 Letter of request from GRC for project received.
- 06 Jun 86 Acceptance of final proposal by the USAID/Cameroon Project Committee.
- 31 Jul 86 State (238217) AID/W gives PID and PP approval authority to mission at \$5.8 million level.

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AID/CM CHRON (5)

ATTACHMENT B

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F.O. 12556: N/A

TAGS:

SUBJECT: CAMEROON ROOT AND TUBER (UMES)

1. WE HAVE REVIEWED SUBJECT PROPOSAL AND AGREE THAT DOLS 5.8 MILLION IS A REASONABLE LEVEL OF EFFORT.
2. AID/W IS HEREBY REDELEGATING PID AND PP APPROVAL AUTHORITY TO USAID/CAMEROON DIRECTOR AT THE INCREASED LEVEL OF DOLS 5.8 MILLION.
3. SINCE SOURCE OF ADDITIONAL FUNDING HAS NOT YET BEEN IDENTIFIED, AUTHORIZATION SHOULD BE DELAYED UNTIL FUNDING ISSUE IS SORTED OUT IN LATE AUGUST. SHULTZ

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E.O. 12356: N/A
TAGS:
SUBJECT: ARDN ALLOWANCE

1. APPROPRIATION 72-1161021.3, BUDGET PLAN CODE GDA-86-21631-AG13 (ALLOWANCE 643-50-61-00-69-6) INCREASED BY DOLLARS 3,000,000 FOR PROJECT 631-0058, TROPICAL ROOTS AND TUBERS RESEARCH.
2. FUNDS CANNOT BE OBLIGATED UNTIL MISSION NOTIFIED THE CN WAITING PERIOD EXPIRED 8/15/86 WITHOUT OBJECTION.
3. ADVICE OF ALLOWANCE FOLLOWS. SHULTZ

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STATE 257302

\$700,000 rec'd 8/28/86
MS

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STATE 268862

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F.O. 12356: N/A

TAGS:

SUBJECT: ARDN DEALLOWANCE/ALLOWANCE

1. APPROPRIATION 72-1161021.3, BUDGET PLAN CODE
GDA-86-21631-AG63 (ALLOWANCE 643-50-631-00-61-61)
DECREASED BY DOLLARS 108,500 FOR PROJECT 631-0510 PDS -
CAMEROON, FOR NEW PROJECT TOTAL DOLS 97,400.

2. APPROPRIATION 72-1161021.3, BUDGET PLAN CODE
GDA-86-21631-AG13 (ALLOWANCE 643-50-631-00-69-61)
INCREASED BY DOLLARS 700,000 FOR PROJECT 631-0058,
TROPICAL ROOTS AND TUBERS RESEARCH, FOR NEW PROJECT
TOTAL DOLS 3,700,000. PLEASE OBLIGATE ASAP.

3. ADVICE OF ALLOWANCE FOLLOWS. WHITEHEAD

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UNITED STATES INTERNATIONAL DEVELOPMENT COOPERATION AGENCY AGENCY FOR INTERNATIONAL DEVELOPMENT

PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES

1. Cooperating Country
Cameroon

2. PIO/T No.
631-0058-3-60026

3. Original or Amendment No.

4. Project/Activity No. and Title
Tropical Root and Tuber Research
631-0058

Page 1 of 18 Pages

PIO/T

- GRC**
- MINPAT - 1
 - MESRES - 2
- AID/W**
- AFR/DP/IPS - 2
 - AFR/CCWA - 1
- REDSO/WCA**
- RCO
- USAID**
- C R (Original)
 - CO - 2
 - CONT - 2
 - PRM - 2
 - USDA - 2

5. Appropriation Symbol
72-1161021.3

6. Allotment Symbol and Charge
GDAA-86-21631-AG13

7. Obligation Status
 Administrative Reservation Implementing Document

8. Project Assistance Completion Date (Mo., Day, Yr.)
1991

9. Authorized Agent Contracting Officer, USAID/Cameroon

10. This PIO/T is in full conformance with PRO/AG
631-0058 Date

11a. Type of Action and Governing AID Handbook
 AID Contract (HB 14) PASA/RSSA (HB 12) AID Grant (HB 13) Other
Cooperative Agreement

11b. Contract/Grant/PASA/RSSA Reference Number (if this is an Amendment)
N/A

12. Estimated Financing (A detailed budget in support of column (2) is attached as attachment no. _____)

Maximum AID Financing	A. Dollars	(1) Previous Total	(2) Increase	(3) Decrease	(4) Total to Date
		B. U.S. Owned Local Currency		\$ 3,700,000	

13a. Instructions to Authorized Agent

- Authorized agent is requested to negotiate a Cooperative Agreement with the University of Maryland - Eastern Shore (UMES), Princess Anne, Maryland USA to implement the Unsolicited Proposal submitted to USAID by UMES on May 16, 1986. A copy of the proposal is included as Attachment No. 2.
- An extract of the proposal is provided in attachment No. 1 as a summary of the Unsolicited Proposal.

The total USAID life of project funded level will be approximately \$5.8 million. This PIO/T provides the first \$3.7 million to fund project through May, 1989.

14b. Address of Voucher Paying Office
Controller's Office
USAID/Cameroon
Yaounde, Cameroon

15. Mission References
- State 238217
 - State 257302
 - State 268862
 - State 268085
 - State 271119

16. Clearances—Include typed name, office symbol, telephone number and date for all clearances.

A. The project officer certifies that the identifications in the statement of work are technically adequate

ARD: WJudy for *[Signature]* Date 28/1/86

B. The statement of work lies within the purview of the initiating and approved agency programs

PRM: BKosheleff *[Signature]* Date 5/29/86

C. ARD: LDominessy *[Signature]* Date 28/1/86

PDE: SScott *[Signature]* Date 2/25/86

D. Funds for the services requested are available

E. CO: MMapper *[Signature]* Date 8/28/86

CONT: MSmith *[Signature]*

17. For the Agency for International Development

Signature *[Signature]* Date *[Date]*

Title Jay P. Johnson
Director

18. For the cooperating country: The terms and conditions set forth herein are hereby agreed to

Signature _____ Date _____

PIOT

4. Project/Activity No. and Title

Tropical Root and Tuber Research
631-0058

SCOPE OF WORK

18. THE SCOPE OF TECHNICAL SERVICES REQUIRED FOR THIS PROJECT ARE DESCRIBED IN ATTACHMENT NUMBER 2 ~~and 3~~ HERETO ENTITLED "STATEMENT OF WORK". Attachment No. 1 is extract of unsolicited proposal

Attachment No. 2 is copy of unsolicited proposal submitted.

19. SPECIAL PROVISIONS

- A. LANGUAGE REQUIREMENTS (SPECIFY) NONE
(IF MARKED, TESTING MUST BE ACCOMPLISHED BY AID TO ASSURE DESIRED LEVEL OF PROFICIENCY)
- B. ACCESS TO CLASSIFIED INFORMATION WILL WILL NOT BE REQUIRED BY TECHNICIAN(S).
- C. DUTY POST(S) AND DURATION OF TECHNICIANS' SERVICES AT POST(S) (MONTHS)
Ekona and Njombe for various long and short term
- D. DEPENDENTS WILL WILL NOT BE PERMITTED TO ACCOMPANY TECHNICIAN.
- E. WAIVER(S) HAVE BEEN APPROVED TO ALLOW THE PURCHASE OF THE FOLLOWING ITEM(S) (COPY OF APPROVED WAIVER IS ATTACHED) See Attachment No. 1 and No. 2
- F. COOPERATING COUNTRY ACCEPTANCE OF THIS PROJECT (APPLICABLE TO AID/PROJECTS ONLY)
 HAS BEEN OBTAINED HAS NOT BEEN OBTAINED
 IS NOT APPLICABLE TO SERVICES REQUIRED BY PIOT
- G. OTHER (SPECIFY) Cooperative Agreement with University of Maryland - Eastern Shore which will negotiate sub-agreements with Alabama A & M and Florida A & M.

20. BACKGROUND INFORMATION (ADDITIONAL INFORMATION USEFUL TO AUTHORIZED AGENT)

21. SUMMARY OF ATTACHMENTS ACCOMPANY THE PIOT (INDICATE ATTACHMENT NUMBER IN BLANK)

- 1 DETAILED BUDGET IN SUPPORT OF INCREASED FUNDING (BLOCK 12)
- _____ EVALUATION CRITERIA FOR COMPETITIVE PROCUREMENT (BLOCK 14)
- _____ JUSTIFICATION FOR NON-COMPETITIVE PROCUREMENT (BLOCK 16)
- 1 STATEMENT OF WORK (BLOCK 10)
- _____ WAIVER(S) (BLOCK 19) (SPECIFY NUMBER)

11

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22. Relationship of Contractor or Participating Agency to Cooperating Country and to AID

A. Relationships and Responsibilities This Cooperative Agreement is between USAID and UMES, Princess Anne, MD, as prime recipient. UMES is responsible for developing a work plan to be approved by USAID and for overall implementation of Project, including TA, training, commodity procurement, and reports.

D. Cooperating Country Liaison Official

Director, IRA/MESKES
Chief of Ekona Research Station, Ekona
Chief of Njombe Research Station, Njombe

C. AID Liaison Officials

USAID Project Officer, Agriculture and Rural Development Division, Yaounde
USAID Controller, Yaounde
USAID Director, Yaounde

LOGISTIC SUPPORT

23. Provisions for Logistic Support

A. Specific Items (Insert "X" in applicable column at right. If entry needs qualification, insert asterisk and explain below in C. "Comments")

	IN KIND SUPPLIED BY		FROM LOCAL CURRENCY SUPPLIED BY		TO BE PROVIDED OR ARRANGED BY SUPPLIER
	AID	COOPERATING COUNTRY	AID	COOPERATING COUNTRY	
(1) Office Space					
(2) Office Equipment		X			
(3) Housing and Utilities		X			
(4) Furniture					X
(5) Household Equipment (Stoves, Refrig., etc.)					X
(6) Transportation in Cooperating Country					X
(7) Transportation To and From Country					X
(8) Interpreter Services/Secretarial					X
(9) Medical Facilities					X
(10) Vehicles (official)					X
(11) Travel Arrangements/Tickets					X
(12)					X
(13)		X			
(14)					
(15)					X

(OTHER SPECIFY)

G. Additional Facilities Available From Other Sources

APC/FPO

PX

COMMISSARY

OTHER (Specify, e.g., duty free entry, tax exemption)

- A. U.S. citizen contractors may be granted first-class letter mail privileges only. The weight of each letter may not exceed one ounce.
- B. Access to Embassy Health Unit on basis of fees for services and medicine basis.
- C. Duty free import of personal effects up to first 6 months under USAID bilateral agreement

INTRODUCTION

This attachment to the PIO/T summarizes the tasks and responsibilities of the contractor and the cooperating Government of Cameroon institution for development and implementation of the unsolicited proposal submitted by the University of Maryland - Eastern Shore (UMES) in May 1986. A Cooperative Agreement is to be written with the prime recipient - UMES - representing a consortium of three U.S. universities. In addition to UMES, the universities include Florida A&M University and Alabama A&M University. This summary has been extracted from the unsolicited proposal which is provided as a detailed and expanded reference in Attachment No. 2. The summary is divided into four sections:

- Article I: Statement of Work
- Article II: Level of Effort
- Article III: Implementation, Plan of Work, and Reports
- Article IV: Contribution by Government of Cameroon

ARTICLE I. STATEMENT OF WORK

1. The Situation

The Cameroon National Root Crop Improvement Program in the Institute of Agronomic Research has made considerable progress in the development of improved sweet potatoes and cassava. Unfortunately, this is only a small step in the solution of the problem and an expanded effort is required to similarly improve the other root crops and ensure the availability of the technology to farmers. Efforts are needed to improve the genetic material of the other major root crops such as cocoyams, to improve the technology of seedstock supply, and to reduce the post harvest losses. In Cameroon, as in many tropical countries, there is no coordinated system to mass produce and distribute improved root and tuber planting materials to farmers. It is also estimated that due to defects and inadequacies in postharvest handling, transportation, storage and marketing, there are losses of root and tuber crops which exceed 25 per cent of the crop. There appears to be considerable potential to improve the storability of this group of crops as well as potential to develop new methods of processing and utilization which will expand the total availability and utility of root and tuber crops.

2. Project Purpose:

Cassava, yams, cocoyams and sweet potatoes are the major root crops produced and consumed by small-scale farmers who dominate the agriculture sector of Cameroon. This project is intended to improve the socio-economic welfare of the farming community by increasing the productivity of this group of crops. The project will: 1) develop varieties of cocoyam with acceptable food quality which are resistant to root rot and blight complex 2) develop

rapid seedstock multiplication systems for yam, cassava and cocoyam, 3) study the nature and magnitude of post harvest losses of root and tuber crops, and 4) assist in the institutional development of root and tuber crops research at the Cameroon Institute of Agronomic Research.

C. Project description:

The recipient, the University of Maryland-Eastern Shore (UMES), is the lead institution in a consortium of three universities. The other two universities are Alabama A&M, and Florida A&M. They will address the project purposes through a collaborative research program with the Institute of Agronomic Research. UMES will be the prime recipient and is responsible for project implementation. The cytogenetic research on cocoyam improvement and development of rapid seedstock multiplication are expected to be continuing components of the program through the life of the project. A diagnostic survey on storage, processing and utilization of root and tuber food crops will be initiated early in the project and completed in the second year. Institutional development will be accomplished through a strong training component and continuing collaborative research.

The coastal lowland zone, selected as the project site, covers the western area of Cameroon from the Atlantic Ocean to the slopes of the mountains in the northwest area. This zone is described as follows: phytogeographic - evergreen forest; rainfall - 2,000mm per year in a monomodal pattern during 180-240 days; elevation - less than 500m. Both Ekona and Njombe are in this zone. The diagnostic survey of storage, processing and utilization of root and tuber crops will cover both the coastal lowland and western highland zones. Some agronomic activities will be carried on in the western highland zone also. The western highland zone occupies the northwest mountainous area of Cameroon and is described as follows: phytogeographic - mountain group; rainfall 2000mm per year in a monomodal pattern during 150-200 days, and elevation - above 1,000m. The diagnostic survey of storage, processing, and utilization of roots and tubers will be conducted from the nearby research station at Njombe. The agronomic researcher will establish a close working relationship with the International Institute for Tropical Agriculture, Ibadan, Nigeria for acquisition of improved varieties and other promising technology. The project will provide technical assistance for the expansion of the IRA program for root and tuber crop breeding and variety improvement; for the introduction of new technology and processes for rapid multiplication of the planting materials for root and tuber crops; for the conduct of the surveys on post harvest problems for this group of crops; and for in-service training of IRA personnel in each of these areas. The project will also establish linkages with research programs doing similar work in the U.S. as well as with International Agricultural Research Centers. Participant training will be used to expand the capability of IRA staff in each of the lines of investigation and lead to a strengthened program of research within IRA.

D. Relationship of Project to USAID Program and Other Donor Programs:

The project falls within the Africa Bureau strategy of developing agricultural facilities and research institutions in Africa. It will also provide complementary resources to the Cameroon National Cereals Research and Extension Project by strengthening work on the root and tuber components of

systems of farming with a root crop base. Cameroon has been identified as a technology generating country within the Africa Bureau strategy. This project expands root and tuber crop technology generation and strengthens linkages between Cameroon institutions as well as regional and the international agricultural research networks for root and tuber research. The project will initially benefit agriculture researchers in Cameroon by providing training, equipment with which to work, and access to technology from outside Cameroon. Ultimately it will benefit approximately two million farmers who grow root and tuber crops in the western provinces of Cameroon.

Several donors, including the World Bank, are contributing to the strengthening of agricultural research in Cameroon, although no other donors are currently supporting work on roots and tubers. Several donors support extension and rural development projects in the project area and have indicated interest in the project as a useful technology for their clients.

E. Relationship to IRA/MESRES

The Institute of Agronomic Research (IRA) in the Ministry of Higher Education and Scientific Research (MESRES) has the national mandate for research in root crops. The Cameroon National Root and Crop Improvement Program (CNRCIP) is located at the Ekona Research Station. The associated research program for food crop processing and utilization is located at the Njombe Research Station. This project will support development of the national programs in the broad areas of seed multiplication and storage/utilization.

F. Purposes and Outputs

The specific purposes and outputs of the research and training program are as follows:

--- Purpose 1: Develop domestically acceptable varieties of cocoyam which are resistant to Root Rot and Blight Complex.

Output 1: One improved variety of cocoyam will have been developed which is resistant to root rot and which has desirable agronomic characteristics. The Ekona Center will be self sufficient in improved cocoyam materials for rapid seedstock multiplication.

--- Purpose 2: Develop a technically and economically feasible yam, cassava and cocoyam rapid seedstock multiplication system.

Output 2: Effective seedstock multiplication methods for cassava, yam, and cocoyam will be functioning at the Ekona research center. The Ekona Center will be self-sufficient in high quality root and tuber seedstock. The root and tuber seedstock multiplication technique will have been evaluated on farms. An efficient seedstock storage method for cassava, yam and cocoyam will have been developed.

--- Purpose 3: Study the nature and magnitude of post harvest losses of root and tuber food crops, the processing and utilization constraints of root and tuber food crop systems, and recommended research problems and opportunities for improving the systems.

Output 3: A diagnostic survey of root and tuber producers, processors, manufacturers, and consumers will have been completed. Constraints and opportunities in storage processing and utilization of roots and tubers will have been identified. A set of researchable problems will have been listed in order of described priority which would have the maximum economic impact on the storage process and utilization of the major roots and tubers.

--- Purpose 4: Assist in the institutional development of IRA in root and tuber crops research.

Output 4: The tissue culture and agronomy laboratories at Ekona will be equipped and operational. Four Cameroonians will have earned masters degrees and two will have earned doctoral degrees. Three short-term workshops and courses will have been developed and conducted in Cameroon. Three Cameroonians will have participated in research fellowships at U.S. institutions.

ARTICLE II: LEVEL OF EFFORT

The recipient will provide 132 person months of resident or short term technical assistance plus 22.7 person months of short term consultancies.

1. SUMMARY OF TECHNICAL ASSISTANCE

Kind of technical assistance	Person months of TA by project year					Institution
	PY 1	PY 2	PY 3	PY 4	PY 5	
<u>Long Term Technical Assistance:</u>						
--- Chief of Party, Agricultural Economist	12	12	12	12	12	UMES
--- Root and Tuber Specialist, Breeder/Agronomist	12	12	12	12	12	UMES
<u>Short Term Technical Assistance:</u>						
--- Post-Harvest Storage Survey Consultants	4	2	--	-	-	Florida A&M
--- Food Processing/Utilization Survey Consultants	4	2	--	-	-	Alabama A&M
<u>Short Term Consultancies:</u>						
Florida A&M	15 months					
Alabama A&M	7.7 months					

2. JOB DESCRIPTIONS OF TECHNICAL ASSISTANCE PERSONNEL

2.1. General staff qualifications: Technical assistance staff, both long and short-term, will meet the commonly accepted standards for education and work experience which are consistent with the academic and research standards of the implementing universities for that discipline or responsibility. For most positions, this will require at least one advanced academic degree plus work experience within the discipline, while other positions might require a bachelor degree and a professional license or work experience qualifying the individual as an authority in that discipline. Proficiency in the French language, while helpful in achieving project goals, is not required.

2.2. Chief of Party/Agricultural Economist: This will be a production economist/farm management specialist to be responsible for the socio-economic analyses associated with seed stock multiplication, post-harvest storage losses and food processing and utilization. About 50% of his time will be devoted to coordination and administration of the field activities of the project.

2.3. Breeder/Agronomist This will be an individual with experience in plant breeding and vegetative production of seedstock. He will be responsible for research on station and on farm in multiplication of seed stock.

2.4. On-farm Storage, Processing/Utilization Specialists: These will consist of food technologists, agricultural engineers, home economists and nutritionists. Their responsibility will be to work with other social scientists to study the problems and opportunities in the current on-farm storage, processing and utilization systems of root and tuber food crops.

2.5. Short-term consultants totaling 22.7 person months: Consultants will be specialists in disciplines of post harvest storage, tissue culture, minisetts and microsetts techniques of seedstock multiplication, virology, micro-computer and data management, and root and tuber crop processing and utilization. Most consultants will be provided by the recipient with certain specialities supplied by other universities and regional and international institutions.

2.6. Approval of technical assistance personnel: The recipient will submit names and curriculum vitae of long-term and short term technical assistance personnel to USAID for approval and to IRA for concurrence and country clearance. The recipient will obtain USAID concurrence for administrative visits.

3. Detailed USAID contribution:

	<u>YEAR 1</u>	<u>YEAR 2</u>	<u>YEAR 3</u>	<u>YEAR 4</u>	<u>YEAR 5</u>	<u>TOTAL</u>
1. Technical Assistance						2,625,712
(a) Prof. Field Staff	280,417	248,732	279,536	305,113	359,254	
(b) Home Office Personnel	84,836	92,862	101,815	112,106	122,912	
(c) Field Office Personnel (Cameroonians)	27,568	28,946	30,393	31,913	33,509	
(d) Alabama A&M University Consultants	56,000	28,000	-0-	-0-	-0-	
(e) Florida A&M University Consultants	56,000	28,000	-0-	-0-	-0-	
(f) Short term Consultant	99,613	99,613	59,287	59,287	-0-	
2. Short Term Travel	40,000	61,052	61,052	61,053	30,000	253,157
3. Language Training & Transportation	25,000	13,000	12,000	10,000	10,000	70,000
4. Participant Training	100,000	100,000	100,000	100,000	44,000	444,000
5. Commodities/Construction	785,196	17,863	72,593	-0-	-0-	875,652
6. Technican Support	104,612	130,628	116,365	117,800	123,933	593,338
7. Other Costs:						297,795
(a) House Rental & Maintenance	30,858	33,944	37,340	41,073	45,180	
(b) Diagnostic Surveys	13,000	12,400	-0-	-0-	-0-	
(c) Freight Shipment	60,000	24,000	-0-	-0-	-0-	
8. Subtotal	<u>1,763,100</u>	<u>919,040</u>	<u>870,381</u>	<u>838,345</u>	<u>758,788</u>	<u>5,159,654</u>
9. Contingency	176,310	91,904	87,038	83,835	76,879	515,965
(a) 10% of Line 8						
(b) Seperate maintenance allowance (COP)	7,200	7,200	7,200	7,200	7,200	36,000
10. Subtotal	<u>183,510</u>	<u>99,104</u>	<u>94,238</u>	<u>91,035</u>	<u>84,078</u>	<u>551,965</u>
11. GRAND TOTAL	1,946,610	1,018,144	964,619	929,380	852,866	5,711,619

ARTICLE III. IMPLEMENTATION, PLAN OF WORK, AND REPORTS

This section outlines the responsibilities of the recipient, IRA/MESRES, and USAID during implementation of this project.

1. Implementation plan: UMES as the prime recipient is responsible for over-all implementation of the project. The cytogenetic research on cocoyam and the rapid seedstock multiplication system for the focused root and tuber crops will be carried on concurrently from the beginning of the project. The diagnostic survey on storage, processing and utilization of root and tuber food crop will be started during the ninth month of project year one and expected to be completed by the middle of year two. The training component of the project will start as early as the fourth month of the first year (depending on the length of service of selected training participants) and continue through the ninth month of the last year. Within a week of the signing of the Cooperative Agreement, a protocol that details the collaboration of GRC and UMES as prime recipient in implementing the joint project will also be signed. Once the Cooperative Agreement and the Protocol are signed, UMES will, within one week, sign Memoranda of Agreement with Alabama A&M and Florida A&M Universities for implementation of the project. Procurement and other logistic arrangements will be initiated immediately after the signing of subagreements. The first two months of the first project year will be utilized for mobilization.

2. Organization for implementation:

The prime recipient for the project will be the University of Maryland Eastern Shore, with Florida A&M University and Alabama A&M as subrecipients. The specific responsibilities for each university are as follows:

- 2.1. University of Maryland Eastern Shore (UMES)

As the lead institution, UMES will coordinate the technical assistance personnel, participant training (including placement, orientation and monitoring of all training participants), procurement of all commodities and the overall financial and administrative management of the project. The management office at UMES will include a project manager (10%), a project coordinator (50%) and a secretary/accountant (full time).

UMES will provide leadership in the breeding and agronomic work in seed stock multiplication as well as the economic analyses in the project.

Florida A&M University

Florida A&M University will provide leadership for the diagnostic studies of the on-farm storage activities of root and tuber food crops. Florida A&M University will provide some of the short term technical assistance to support the agronomic research as well as the economic studies.

Alabama A&M University:

Alabama A&M University will provide leadership for the diagnostic studies of the processing and utilization of root and tuber food crops and the necessary biochemical and nutritional analyses of root and tuber food products. Part of the other short term technical assistance will also be provided by Alabama A&M University.

Executive Committee

The Executive Committee will consist of the combined membership of the U.S. Project Advisory Committee and the (Cameroon) Project Management Committee, plus a representative of MESRES, and the Director of IRA or his representative. The Executive Committee shall be responsible for major policy decisions, project direction and reviewing and approving annual work plans before submission to USAID for final concurrence. The Executive Committee shall meet once a year, alternating between the United States and Cameroon. Meetings will be chaired by the chairperson of the Host Advisory or Host Management Committee. The USAID Project Officer will be an observer on the Executive Committee.

State-side Project Advisor Committee (SSPAC)

The U.S. Project Advisory Committee's responsibility will include the monitoring of project activities and progress and ensuring that set objectives are met. Its membership will consist of the Deans of Agriculture at the three cooperating 1890 Institutions and the coordinator of the project at UMES as an ex-officio member. The chairperson of the committee shall be the Dean of Agriculture of the lead institution (UMES)

Host Country (Cameroon) Project Management Committee (HCPMC)

The Host Country (Cameroon) Project Management Committee will be responsible for ensuring that the project objectives are met in Cameroon. It also will recommend necessary changes which are then subject to the approval of the Executive Committee. The identification of all participants for training and the requirements for short term technical assistance including scopes of work will also be part of its responsibilities. The HCPMC will consist of representatives from IRA, Chief of Program of CNRCIP, Chief of Program of Food Technology, and the Chief of Party. The HCPMC reports to the Director of IRA. Any changes, deletions or additions to the project will be included in the Work Plan which will be approved by USAID before implementation.

Visits and meetings

The Advisory and Management Committees will each meet independently at least once per year. Additional meetings may be held if project activities or issues occur that require timely attention. The Executive Committee will meet annually. One administrative visit by the Chief Executive Officer of each of the three U.S. Universities will be made during the life of the project.

3. Field Project Office:

A field project office will be established at IRA in Ekona to provide the necessary support needed by the field team. The Chief of Party will be the official representative of the recipient in the field. He will be responsible for the daily financial and administrative decisions as well as the coordination of technical project activities. All technical assistance personnel (long and short-term) will report to the Chief of Party. While the Chief of Party reports to the project manager at UMES, the UMES office will maintain contacts with the office of international programs at the other campuses regarding their designated responsibilities and with respect to the administration and technical management of their long and short-term personnel. The field project office will employ the following staff: Administrative Assistant, a Stenographer Secretary, a Typist and a Manager (all local hire). The office in Cameroon will be equipped with a telex. The recipients' activities in Cameroon will be coordinated by the Chief of Party. His technical counterparts will be the Chief of Root and Tuber Program and the Chief of Processing and Technology Program.

4. Work Plans

A general five year work plan and a detailed one year work plan will be developed by the recipient and submitted to USAID for concurrence within the first two months after the Cooperative Agreement is signed. During the first two months of each project year the recipient will prepare a detailed one year work plan, and a revised the five year general work plan, (if needed) to be agreed upon by USAID.

5. Procurement

5.1. Responsibilities: UMES will be responsible for project procurement and contracting. UMES will execute memoranda of agreement with Alabama A&M University and Florida A&M University to provide technical assistance to implement the diagnostic survey on storage, processing and utilization of root and tuber food crops. UMES will provide the two long-term technical assistance members. All short-term consulting will be provided through the three collaborating universities. In special cases where outside consultants must be used because of some unique experience, such consultant services will be contracted through any of the three collaborating universities. All commodities under this project will be procured by UMES.

5.2. Commodity Summary: UMES will procure commodities and obtain any necessary waivers from USAID/Cameroon. Commodities include vehicles, laboratory and field equipment, research supplies, office furnishings and equipment, and household furniture and appliances for the long-term technicians. The commodity list may be revised as necessary by the recipient in collaboration with IRA and USAID/Cameroon. Estimates of off-shore procurement are in US dollars, CIF Douala. Local commodity prices are estimated in CFA at the exchange rate at the time of submission of the proposal (May 16, 1986).

For additional information and a more detailed description about commodities, refer to Attachment Number 2, Unsolicited Proposal submitted by UMES in May 1986.

5.3. Source/Origin: Goods and services financed by AID under the grant will have their source and origin in the United States and the cooperating country, except as AID may otherwise agree in writing. Ocean shipping financed by AID under the grant shall, except as AID may otherwise agree in writing, be done only on U.S. flag vessels.

5.4. Shelf Items: Imported shelf items having their origin in the United States Geographic Code 000 can be purchased without restrictions, except for the limitation on the total amount available for local procurement. Shelf items having their origin in Geographic Code 941 countries are eligible for local cost financing in unlimited quantities, save for the limit on local procurement funding. Shelf items having their origin in any country included in Code 899, but not in Code 941, are eligible if the price of one unit does not exceed \$5,000. For goods sold by units of quantity, e.g., tons, barrels, etc., the unit to which the local currency equivalent of \$5,000 is applied is that which is customarily used in quoting prices. The total amount of imported shelf items purchased from countries included in Code 899, but not in Code 941, may not exceed \$25,000 or 10% of local cost financing, whichever is greater; however, in no case will the local amount of such purchases exceed \$250,000 without first obtaining a specific geographic source waiver. Procurements in excess of the limits will be authorized only as source waivers in accordance with the provisions and limitations of Africa Delegation of Authority No. 140, Revised, and any redelegation thereunder. Imported shelf items produced in or imported from countries not included in Geographic Code 899 are ineligible for AID financing. Procurement of imported shelf items shall conform to good commercial practices, shall be of a reasonable price, and shall not be procured in a manner which conflicts with local laws and practices. Shelf item procurement procedures must be spelled out carefully in the plan of work so there will be no confusion on the part of the GRC as to what type of items are authorized to be procured.

5.5 Delivery and in-country transport: All commodities imported specifically for the project will be shipped CIF Douala. In-country transport and insurance will be the responsibility of and paid for by the GRC. Suppliers will provide all risk marine insurance in the amount of 120% of the CIF of the commodities. AID's marking requirement for overseas shipments will be enforced.

5.6 Title of Commodities: Commodities imported under the project will be titled to the Ministry of Higher Education and Scientific Research.

5.7 Custom Clearance: It is the responsibility of IRA to initiate documentation required for customs exoneration prior to the arrival of goods in Douala and to assure that such documentation is made available to the freight forwarder in sufficient time to permit goods to be moved from port of entry promptly upon arrival. USAID does not pay transportation costs beyond

port of entry in Cameroon. The IRA is responsible for issuing an Order of Transit to its predetermined freight forwarder promptly upon commodity arrival to move such commodities out of the port of entry to its warehouse facilities and on to the appropriate project site.

5.9 Condition of Goods upon Arrival: It is the responsibility of IRA and UMES to inspect upon arrival and report, immediately thereafter, any shortages or damages so that appropriate insurance claim(s) can be initiated. In the event significant shortages or damages are encountered, UMES and IRA will employ the services of an independent surveyor to prepare and submit a written report.

5.10 Receipt and Utilization: IRA is responsible for the proper reception and clearances of incoming project commodities. Inspections of incoming shipments must be made, and receiving documents shall be annotated with comments on evident or possible damages or losses. Reports on damages/losses must be made promptly; if incoming cargo has been procured in the United States, the recipient must file a claim against the ocean carrier or freight forwarder(s) involved. Once the recipient has filed its claim, the carrier must await the filing and adjudication of the claim to permit IRA to acquire more information and particulars about the claim. In most cases where damages or losses are noted, a picture of the damaged commodity and/or its container is the best possible evidence to be presented. Receiving documents properly annotated, are valuable. If damages or losses are not noted on the documents, however, there would be little or no possibility of having a claim settled.

IRA and UMES are required to put into use all commodities procured for the project within one (1) year of receipt; USAID/Cameroon will inspect utilization reports as a matter of course.

6.1. Sub-agreements

The University of Maryland Eastern Shore will be the prime recipient for this project. UMES will sign a subagreement called a Memorandum of Agreement with each of the other participating universities. Each agreement will outline responsibilities as well as the technical assistance to be provided by each university. Any other agreements or contracts must be approved by the Executive Committee.

7. Construction:

The UMES is responsible for developing plans for construction and building renovation, initiating construction contracts through IRA/MESRES and monitoring all work, including final inspection. USAID may at any time inspect such construction and/or building renovation.

8. Training:

The UMES is responsible for participant training. UMES will provide the title and location in the university organization of the training coordinator to USAID .

9. Waivers:

A waiver for purchase of non-US manufactured vehicles has been made a part of the authorization document by USAID. UMES is responsible for requesting any and all waivers which may be required for procurement.

10. Reports: The recipient will prepare and submit to USAID semi-annual and annual reports describing progress toward goals and problems encountered which affect future work plans. The recipient will prepare and submit to USAID semi-annual and annual financial reports by budget line item which describe amount of funds budgeted and amount expended/committed.

11. Evaluations: USAID will inspect, monitor, and analyze project activities. Two in-depth evaluations will be carried out during the life of the project. These evaluations will be conducted at the mid-point plus a final evaluation during the last year of the project. The evaluation team should include U.S., local and regional experts. USAID, in collaboration with UMES and IRA, will select and develop the scope of work for the evaluation team.

ARTICLE IV: CONTRIBUTION BY THE GOVERNMENT OF CAMEROON

The Government of Cameroon will contribute personnel, physical, and financial resources to the project.

1. Personnel support: A total of 435 person months will be contributed by the GRC during the five years of the project. The personnel and their specialties include the following:

- 1.1. Chief of Root and Tuber Program at Ekona Research Center and Chief of Processing and Utilization Program at Njombe Research Center. Each Chief will contribute approximately one-fourth of his time as administrative counterpart to the Chief of Party for the project.
- 1.2. Two Cameroonians, an Agronomist/Breeder and Horticulturist/Tissue Culture Specialist will be assigned as counterparts to the Breeder/Agronomist. The individuals will spend a considerable portion of their time in formal training.
- 1.3. Two Cameroonians in food processing will be assigned as the counterparts to the food processing/utilization specialist. The individuals will spend a considerable portion of their time in formal training.
- 1.4. One Cameroonian agricultural economist will be assigned as the technical counterpart to the agricultural economist/Chief of Party. He will also be trained in the U.S.
- 1.5. One Cameroonian with a B.Sc. in agriculture will be trained to the M.Sc. level in on-farm storage methods.
- 1.6. The GRC will also provide lab technicians, instrumentation specialists, field assistants, drivers, and field laborers to support the project.

2. Physical resources: The following physical resources and the recurrent costs for their maintenance will be provided by GRC:

- 2.1. Thirty (30) hectares of land.
- 2.2. Administrative offices, two scientist offices and office building for Cameroon technicians.
- 2.3. Vehicles and motor bikes for Cameroon staff

- 2.4. Office furniture for Cameroon staff
- 2.5. Transportation of commodities from port to research center
- 2.6. Stand-by generator
- 2.7. Tractor and implements

3. Financial resources: The following financial contribution will be made by the IRA/MESRES to the project:

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
PERSONNEL	196,239	205,049	216,351	227,172	238,469	1,084,280
UTILITIES	6,500	6,825	17,089	17,943	18,830	67,187
PART. TRAIN.	7,500	-0-	10,000	13,500	3,500	34,500
LAB. EQUIP.	101,497	8,497	8,497	8,497	8,497	135,485
VEHICLES, MAINTENANCE AND TRANSPORTATION	106,934	47,500	47,325	51,506	61,453	314,718
OFFICE & FURNITURE	118,000	-0-	-0-	-0-	-0-	118,000
LAND	20,000	20,000	20,000	20,000	20,000	100,000
INC. TRAVEL	5,000	5,250	5,513	5,788	6,078	27,629
SUBTOTAL	561,670	294,121	324,775	344,406	356,827	1,881,799
Contingency 10%	56,167	29,412	32,478	34,441	35,683	188,181
T O T A L	617,837	323,533	357,253	378,847	392,510	2,069,980

ACTION MEMORANDUM FOR THE DIRECTOR

Samuel Scott

From : Samuel Scott, Project Development Officer

Subject: Tropical Root and Tuber Research Project, (631-0058): Project Authorization

Problem:

Pursuant to Africa Bureau DOA 140, Section 4, your approval is required to authorize the subject project involving planned life of project funding of five million eight hundred thousand dollars (\$5,800,000) of FAA section 103 funds to be given the University of Maryland Eastern Shore (UMES) through a cooperative agreement.

Discussion:

A. Project Description

The purposes of the project are to 1) develop domestically acceptable varieties of cocoyam which are resistant to Root Rot and Blight Complex 2) develop technically and economically feasible rapid seedstock multiplication methods for yam, cassava and cocoyam 3) study the nature and magnitude of post harvest losses of root and tuber crops, the processing and utilization constraints of root and tuber food crop systems and recommend researchable problems and opportunities for improving the systems and 4) assist in the institutional development of IRA in root and tuber crops research.

The consortium, under UMES leadership, will work through a collaborative research program with the Institute of Agronomic Research to achieve the project objectives. A diagnostic survey on storage, processing and utilization of root and tuber food crops will be initiated early in the project and completed in the second year. The cytogenetic research on cocoyam improvement and development of rapid seedstock multiplication will continue throughout the life of the project. Institutional development will be accomplished through a strong training component and continuing collaborative research.

The diagnostic survey of storage, processing and utilization of roots and tubers will be conducted from the nearby research station at Njombe. Agronomic research will be conducted in one agro-ecological zone of the country. All on-station research and development for the production and handling of seedstock will be done at the IRA station at Ekona in the coastal lowlands. The agronomic researcher will establish a close working relationship with the International Institute for Tropical Agriculture, Ibadan, Nigeria to acquire improved varieties and other useful seedstock multiplication technology.

The project will provide technical assistance for the expansion of the IRA program for roots and tubers crop breeding and variety improvement; for the introduction of new technology and processes for rapid multiplication of the planting materials for root and tuber crops; for the conduct of the surveys on post harvest problems for this group of crops; and for in-service training of IRA personnel in each of these areas. The project will also establish linkages with research programs doing similar work in the US as well as at international agricultural research centers. Participant training will be used to expand the capability of IRA staff in each of the lines of investigation and lead to a strengthened program of research within IRA.

R. Financial Summary:

The planned total life of project funding is approximately \$7.8 million and AID is planning to provide up to \$5.8 million. AID's contribution includes:

Technical assistance	\$2,600,000
Short term travel	250,000
Language training and transportation	70,000
Participant training	450,000
Commodities	875,000
Technician Support	600,000
Other costs	300,000
Contingencies	550,000
Total	\$5,695,000

The GRC plans to contribute approximately \$2,000,000 which includes salaries and benefits of the IRA staff, lab equipment, office space and vehicle maintenance.

C. Waivers:

The project plans to purchase four vehicles initially. The total amount is \$50,000 and is within the Mission Director's authority to approve a source/origin waiver for the purchase of non US manufactured vehicles. The waiver is included as an attachment to and forms part of the Project Authorization Package. (See Attachment 1)

D. Technical, Socioeconomic and Environmental Considerations:

The Project Review Committee has found the project technically sound and using acceptable research methods. No negative social impact is expected. In the short run Cameroonian researchers will benefit from USAID assistance, but once research results have been adapted for general use, thousands of small farmers who grow root and tuber crops will benefit. The environmental officer has requested a negative determination for this project. All chemicals to be purchased with USAID funds are on the EPA approved list, are to be used for research only and will be used according to manufacturer's guidelines. The only construction activities are small. The irrigation system will be the sprinkler type. (See Attachment 2 for IEE determination)

E. Conditions Precedent: The Grant or Cooperative Agreement will include in substance the following essential conditions precedent to disbursement:

1. Prior to any disbursement, or the issuance of any commitment documents pursuant to which disbursement will be made, the recipient shall furnish to AID in form and substance satisfactory to AID:
 - a. Evidence of a written agreement between UMES and the GRC authorizing UMES to carry out the project in accordance with its terms; and
 - b. Evidence of a written agreement among UMES, Alabama A&M and Florida A&M Universities which identifies each party's responsibilities and obligations under the project and commits each party to collaborate and cooperate with the other in carrying out the project.
2. Prior to any disbursement, or the issuance of any commitment documents under the Grant or Cooperative Agreement to finance local costs, the responsible AID officer shall have made the programming determinations required under AID Handbook 1B, Chapter 18A 1.C.

F. Project Management:

The prime implementor of the project is UMES and as the lead institution will be responsible for the coordination of the technical assistance personnel, participant training, procurement and overall financial and administrative management of the project. Florida A&M will be primarily responsible for the diagnostic studies of the on-farm storage activities of root and tuber food crops. Alabama A&M will provide the leadership for the diagnostic studies of the processing and utilization of root and tuber food crops. The Chief of Party will be the official representative of the UMES in the field. There will be a state side Project Advisory Committee and the Host Country Project Management Committee. Together they will form the Executive Committee and will be responsible for major policy decisions, project direction and reviewing and developing the long term and annual work plans. Final approval of these plans will be made by USAID. A project officer in USAID/Cameroon's ARD division will be assigned to monitor the project.

G. Reports:

Annual reports will be prepared by the project coordinator and chief of party and submitted to the USAID project manager and Executive Committee.

H. Evaluation:

There will be two in-depth evaluations during the life of the project. These evaluations will be conducted at the mid point and the last year of the project.

I. 611 (a) Certification: See Attachment 3

J. Unsolicited Applicant Approval: See Attachment 4

K. Congressional Apprisement:

The congressional notification was submitted June 27, 1986 and the required waiting period passed without objection being raised by Congress.

L. Authority:

As per State 238217, you have been redelegated the authority to approve the attached project paper equivalent and authorize the subject project.

Recommendation:

That you sign the attached Project Authorization and thereby approve the attached project paper equivalent and the life-of-project funding of

31

\$5.8 million in ARDN funds for Tropical Root and Tuber Research Project.

Clearances ARD:WJudy WJudy 8/25
ARD:JBalis JBalis 8/25
PRM:BKosholeff BKosholeff 8/25
CONT:MSmith MSmith 8/28
RLA:DKeene (draft)

Attachment 1: Vehicle Waiver

Attachment 2: IEE

Attachment 3: 611(a) Certification

Attachment 4: Unsolicited Applicant Approval

Attachment 5: Justification for not including an audit

Approved: J.P. Johnson
Disapproved: _____

Jay P. Johnson, Mission Director
USAID/Cameroon

Date: August 29, 1986

Attachment 1

ACTION MEMORANDUM FOR THE MISSION DIRECTOR

FROM : Martin Yapper, Contracting Officer

SUBJECT : Cameroon Tropical Roots and Tuber Research Project, Request for a Source/Origin Waiver and Waiver of the requirements of Section 636(i) of the FAA

Problem: Your approval is requested for a waiver of procurement source/origin requirements from Geographic Code 000 (U.S. only) to Geographic Code 935 (Special Free World) and for a waiver of the requirements of Section 636(i) of the Foreign Assistance Act, to allow procurement of non-U.S. manufactured vehicles.

A. Cooperating Country: Cameroon

B. Obligating Document: Project Authorization

C. Project: Tropical Roots and Tubers Research

D. Nature of Funding: Grant

E. Description of Commodities: Four vehicles: One Caravan (Administration) One Pick-up - 1/2 tons, one Mid size saloon, One Landcruiser Field Vehicle (4WD)

F. Approximate Value: \$50,000

G. Probable Origin: Western Europe

H. Probable Source: Cameroon

Discussion: A five year Roots and Tubers Project is being undertaken by the United States Agency for International Development under the management of USAID/Cameroon. The project will be implemented by the University of Maryland Eastern Shore (UMES). It has been determined that the project will require four vehicles, for the first year of its life to meet the transportation needs of the project technicians. A general description of the types of vehicles that will be required is given under item E above.

Justification: The project will be based at Ekona, Cameroon and its implementation will carry project technicians to the rural and urban areas where the roads are rough. Travel to such areas will therefore require vehicles that are resistant to rough terrain and for which spare parts and

maintenance support exists locally. A recent vehicle survey conducted by the Supply Management Division of USAID/Cameroon has revealed that there are no U.S. manufactured vehicle dealerships in Cameroon at this time. Renault Cameroon, the only dealer on whom the Mission counted in the past, has withdrawn from representation of U.S. manufactured vehicles. Local mechanics are unfamiliar with U.S. manufactured vehicles.

Handbook 1 Supplement B, Section 531a(7) states that a waiver may be granted if there are "such other circumstances as are determined to be critical to the success of the project objectives". The success of the Roots and Tubers project will depend largely upon the provision of adequate and reliable transportation.

Section 636(i) of the Foreign Assistance Act (FAA), as amended, provides that none of the funds made available to carry out the Act shall be used to procure motor vehicles unless they are manufactured in the United States subject to waiver where special circumstances exist, in order to carry out the provisions of the FAA.

AID Handbook 1, Supplement B, Chapter 4C2d, provides that the Section 636(i) provision may be waived on the basis of present or projected lack of adequate service facilities and supply of spare parts for U.S. manufactured vehicles. In view of the absence of service and spare parts for U.S. manufactured vehicles and the availability of spare parts and service capacity for vehicles of Code 935 origin, the special circumstances and criteria set forth above for a vehicle waiver are met.

You have authority under Africa Delegation of Authority No. 140, after consultation with a Regional Legal Advisor and a Commodity Management Advisor, to grant the waiver.

Recommendation: Since there is no dependable dealership for U.S. manufactured vehicles in Cameroon and considering the absence in Cameroon of facilities and personnel to maintain U.S. manufactured vehicles, it is recommended that you:

1. Certify that exclusion of procurement from free world countries other than cooperative country and countries included in Code 941 would seriously impede attainment of U.S. Foreign Policy objectives of the Foreign Assistance Program,
2. Determine that special circumstances exist which justify the waiver of the requirements of Section 636(i) of the FAA, as amended.
3. Approve a source/origin waiver from Geographic code 000 to 935, to permit procurement of four (4) vehicles of non-U.S. origin, for subject project.

Approved J. P. Johnson

Disapproved _____

Date Aug 29, 1956

ALL2 ECON AMB LCM CHRON (6)

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RR RUEHYD
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ZNR UUUUU ZEH
R 261717Z AUG 86
FM SECSTATE WASHDC
TO AMEMBASSY YAOUNDE 6787
BT
UNCLAS STATE 268085

LOC: 124 886
27 AUG 86 1350
CN: 37371
CHRG: AID
DIST: AID

AIDAC

E.O. 12356: N/A

TAGS:

SUBJECT: MATERNAL CHILD,HEALTH (631-0056), ROOT AND
TUEER CROPS RESEARCH (631-0058)

IES ON SUBJECT PROJECTS APPROVED AND CLEARED BY GC/AFR
AUGUST 22, 1986. COPIES POUCHED. WHITEHEAD
BT
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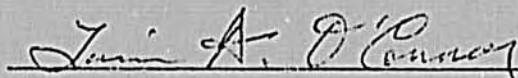
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STATE 268085

611 (a) Determination

I have examined the description of the project and participated in the elaboration of the construction description in Annex B (details in the Project Development Files) through research, and analysis of construction cost data for similar construction in Cameroon.

By the observations and studies relative to those activities, I determine that the requirements of Section 611 (a) of the Foreign Assistance Act (FAA, 1961) for the construction program have been met.



Louis A O'Connor, P.E.

General Engineering Officer
USAID/Cameroon

August 26, 1986

UNCLASSIFIED

STATE 271119

Attachment 4

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CHRG: AID
DIST: AID

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E.O. 12333: N/A

TAGS:

SUBJECT: TROPICAL ROOTS AND TUBERS RESEARCH (6310053)

REF: YAOUNDE 2272

1. APPROVAL IS HEREBY GRANTED TO USAID/CAMEROON TO CONSIDER AN AWARD OF ASSISTANCE TO THE UNIVERSITY OF MARYLAND, EASTERN SHORE, (UMES) TROPICAL ROOTS AND TUBERS RESEARCH PROJECT ON THE BASIS OF ITS UNSOLICITED APPLICATION, PURSUANT TO HB 13.1B.2.E.(4).E.

2. SEND IMMEDIATE CABLE INDICATING AMOUNT AND DATE OF OBLIGATION. WHITEHEAD

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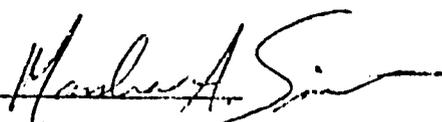
UNCLASSIFIED

STATE 271119

Attachment 5

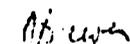
JUSTIFICATION FOR NOT INCLUDING AN AUDIT FOR (631-0058)
TROPICAL ROOT AND TUBER RESEARCH

This project will be funded through a cooperative agreement with an educational insitution, the University of Maryland Eastern Shore located in Princess Anne, Maryland. A mid term and final evaluation will be conducted by representatives from USAID/Cameroon, the University of Maryland Eastern Shore, the Government of Cameroon's Institute for Agronomic Research and consultants from other US universities if necessary. The evaluations will determine if project goals and purposes are being met; if progress towards achievements of those goals is adequate in light of the disbursements made; if the project is proceeding on schedule and, if not, reasons for the delays; if procurement and arrival of commodities have been timely. If the project is not succeeding, then the team will offer recommendations for modifications. With these two evaluations already planned and included in the project budget, the mission does not, at the present time, see the need for an audit. However, USAID/Cameroon does reserve the right to request an audit, if deemed necessary, according to the Mandatory Standard Provisions for US, Nongovernmental Grantees, Item 2.

Approved 
Marsha Smith
USAID/Cameroon Controller

Disapproved _____

Date 8/28/86

Drafter: PDE: ABrewer 

PROJECT AUTHORIZATION

Name of Country : Cameroon

Name of Project : Tropical Roots and Tubers Research

Number of Project: 631-0058

1. Pursuant to Section 103 of the Foreign Assistance Act of 1961, as amended, I hereby authorize the Root and Tuber Food Crops Research Project for Cameroon, ("Cooperating Country" or "GRC"), involving planned obligations not to exceed \$5,800,000 in grant funds over a five year period from the date of initial obligation, subject to the availability of funds in accordance with the AID/OYB allotment process, to help in financing foreign exchange and local currency costs for the project. No project grant agreement shall be executed and no other obligation of funds under this Project shall be made until the funds to be obligated shall have been allocated to the Mission and the waiting period following Congressional Notification shall have passed without objection being raised by Congress.
2. The Project will contribute to the improvement of the Cameroonian farmer socio-economic welfare through increased productivity of root and tuber food crops. The purpose of the project includes 1) developing domestically acceptable varieties of cocoyam which are resistant to Root Rot and Blight Complex 2) developing technically and economically feasible rapid seedstock multiplication methods for yam, cassava and cocoyam systems 3) studying the nature and magnitude of post harvest losses of root and tuber crops, the processing and utilization constraints of root and tuber food crop systems and recommended researchable problems and opportunities for improving the systems and 4) assisting in the institutional development of IRA in root and tuber crops research.
3. The Grant Agreement which may be negotiated and executed by the officer(s) to whom such authority is delegated in accordance with AID Regulations and Delegations of Authority shall be subject to the following essential terms and conditions, together with such other terms and conditions as AID may deem appropriate:

A. Source and Origin of Goods and Services

Goods and services, except for ocean shipping, financed by AID under the Cooperative Agreement shall have their source and origin in the United States or in Cameroon, except as AID may otherwise agree in writing. Except for ocean shipping the suppliers of commodities or services shall have the United States or Cameroon as their place of nationality, except as AID may otherwise agree in writing. Ocean shipping financed by AID under the grant shall, except as AID may otherwise agree in writing, be financed only on flag vessels of the United States.

B. Conditions Precedent: The Grant Agreement will include in substance the following essential conditions precedent to disbursement:

1. Prior to any disbursement, or the issuance of any commitment documents pursuant to which disbursement will be made, the recipient shall furnish to AID in form and substance satisfactory to AID:
 - a. Evidence of a written agreement between UMES and the GRC authorizing UMES to carry out the project in accordance with its terms; and
 - b. Evidence of a written agreement among UMES, Alabama A&M University and Florida A&M University which identifies each party's responsibilities and obligations under the project and commits each party to collaborate and cooperate with the other in carrying out the project.
2. Prior to any disbursement, or the issuance of any commitment documents under the Grant or Cooperative Agreement to finance local costs, the responsible AID officer shall have made the programming determinations required under AID Handbook 1B, Chapter 18A 1.c.

C. Waivers

1. The following waiver to AID regulations is hereby approved: A procurement and source origin waiver from AID Geographic Code 000 (United States) to Code 935 (Special Free World) for the procurement of four vehicles in an amount of \$50,000.
2. I hereby certify that the exclusion of procurement of the above described commodities from Free World Countries other than the Cooperating Country and countries included in AID Geographic Code 941 would seriously impede the attainment of US foreign policy objectives and objectives of the foreign assistance program.
3. With respect to the procurement of the above described vehicles, I hereby find that special circumstances exist to waive, and do hereby waive, the requirements of section 636 (i) of the Foreign Assistance Act of 1961, as amended.


 Jay P. Johnson
 Director

Date Dec. 29, 1986

Drafter: PDE: ABrewer: ABrewer na: 08/29/86

Clearances: PDE: STScott ST
 ARD: WJudy WJ
 ARD: JBalis JB
 PRM: BKosheleff BK
 CONT: MSmith MS
 RLA: DKeene (draft)

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