

DEPARTMENT OF STATE
AGENCY FOR
INTERNATIONAL DEVELOPMENT

1. Cooperating Country
ROCAP/Regional

2. PIO/T No.
596-063-3-50017

3. Original or
Amendment No.

4. Project/Activity No. and Title
596-11-140-063
SOIL FERTILITY

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DISTRIBUTION

5. Appropriation Symbol
72-11X1023

6.A. Attachment Symbol and Charge
402-52-596-00-69-51

6.B. Funds Allotted to:
 A.I.D./W Mission

7. Obligation Status
 Administrative Reservation Implementing Document

8. Funding Period (Mo., Day, Yr.)
From **5/1/75** To **10/31/75**

9.A. Services to Start (Mo., Day, Yr.)
Between **May 1 1975** and

9.B. Completion date of Services
(Mo., Day, Yr.)
10/31/75

10.A. Type of Action
 A.I.D. Contract Cooperating Country Contract Participating Agency Service Agreement Other **Task Order against Basic Ordering**

10.B. Authorized Agent
AID/W Agreement **AID/ta-BOA-1080**

Estimated Financing		(1)	(2)	(3)	(4)
		Previous Total	Increase	Decrease	Total to Date
11. Maximum A.I.D. Financing	A. Dollars		130,000		130,000
	B. U.S.-Owned Local Currency				
12. Cooperating Country Contributions	A. Counterpart		300,000		300,000
	B. Other				

13. Mission Reference

14. Instructions to Authorized Agent

a) This PIO/T authorizes AID/W to issue a Task Order to the North Carolina State University, for a period of 6 months, for the purpose of accomplishing those tasks which are defined in Block 19-A and B, Scope of Services.

b) Funding for this Task Order is limited to that amount shown in Block 11 and is intended to cover only those costs which are shown in the attached illustrative budget.

15. Clearances - Show Office Symbol, Signature and Date for all Necessary Clearances.

A. The specifications in the scope of work are approved and available

DIRDO:EMStickney *[Signature]*

RRDO:DRFiester *[Signature]*

B. Funds for the services requested are available

A/CONT:CTFlinnar *[Signature]*

C. The scope of work lies within the purview of the initiating and approved Agency Program

PROG:JEyre *[Signature]*

ADO: CABuchanan *[Signature]*

USO:IDowning *[Signature]*

EXEC: *[Signature]*

P&CO: ABlock *[Signature]*

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

Signature and date: _____

17. For the Agency for International Development:

Signature: *Robert R. Parkson*

Title: **Acting Director**

18. Date of Signature: **May 9, 1975**

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SCOPE OF WORK

10. Scope of Technical Services

A. Objective for which the Technical Services are to be Used: The purpose of the provision of technical services is to create, through a coordinated Central American soil fertility research program, a system capable of producing fertilizer-use alternatives which are suitable for the ~~existing~~ cropping systems of the farmer.

B. Description: This activity has been planned for implementation over a period of 3 years. Due to the limitation of funding, however, this segment of the project has been funded for six months only. Subject to the availability of funds and acceptable performance by the Contractor based upon evaluation by ROCAP, the project will be continued for its full life. In order to give the Contractor the total perspective necessary to carry out the activity in the most efficient manner, the conditions which will exist when the project purpose has been achieved (EOPs), the project Outputs which should result from the Contractor's assistance to the counterpart over the life-of-the-project as well as the means of verification which will be used to determine the degree of accomplishment

(continues page 6)

C. Technicians

(1) (a) Number	(b) Specialist Field	(c) Grade and/or Salary	(d) Duration of Assignment (Non-Monthly)
2	soils & soil fertility (resident advisors)		12 mo
2	specialists, soil characterization and identification of soil management analogs		6 Aug/Oct. 1975
1	specialist, experimental design		2 Sept/Oct. 1975
1	specialist in use of mulches and green manure in crop production		2 Oct. 1975

(2) Duty Post and Duration of Technicians' Services

Resident advisors may be posted within Central America as directed by the Director, ROCAP

(3) Language requirements

Spanish S/2 R/2

(4) Access to Classified Information

N/A

(5) Dependents

Will

Will Not

Be Permitted to Accompany Technicians

(applicable only to resident advisors)

D. Financing of Technical Services

(1) By AID - \$ 130,000

(2) By Cooperating Countries \$300,000

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20. Equipment and Supplies (Related to the services described in Block 19 and to be procured outside the Cooperating Country by the supplier of these services)

A. (1) Quantity (2) Description (3) Estimated Cost (4) Special Instructions

None

B. Financing of Equipment and Supplies

(1) By AID - none (2) By Cooperating Country -

21. Special Provisions

- A. This PIO/T is subject to AID (contracting) (25 CFR 101-11.6) regulations.
- B. Except as specifically authorized by AID, or when local hire is authorized under the terms of a contract with a U.S. Supplier, services authorized under this PIO/T must be obtained from U.S. sources.
- C. Except as specifically authorized by AID/W, the purchase of commodities authorized under this PIO/T will be limited to the U.S. under Geographic Code 000.

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22. Reports by Contractor or Participating Agency (Indicate type, content and format of reports required, including language to be used if other than English, frequency or timing of reports, and any special requirements)

- A) The Contractor will submit reports to ROCAP at the end of July, 1975 and October, 1975; five (5) copies of each report will be submitted in English. The reports will describe the work done to accomplish those tasks which are specified for the reporting period in the Project Implementation Schedule (Annex A); will contain description of problems encountered in accomplishing these tasks and will recommend solutions to these problems. The field staff in Central America will submit a monthly report, by individual, of the man days spent on each activity under this Task Order by resident and short term advisors and local contract personnel. The report shall also include, when applicable, the man days of training provided under each task order activity.
- B) The following revisions of General Provision (form 1420-23C) No. 7(b) shall apply to this Task Order:

- 1) vouchers shall be submitted monthly, no later than 30 days after the close of each month, rather than quarterly.

(Block 22 continues page 9)

23. Background Information (Additional information useful to Authorized Agent and Prospective Contractors or Participating Agency; if necessary cross reference Block 19.C(4) above.)

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

A. Relationships and Responsibilities: Contractor personnel will work under the direction of the Rural Development Officer, ROCAP or his designated representative.

B. Cooperating Country Liaison Official: To be appointed by Ministers of Agriculture of the cooperating Central American countries.

C. AID Liaison Officials: The RDO's of USAIDs/CA.

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LOGISTIC SUPPORT

25. Provisions for Logistic Support 1/

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

	In Kind Supplied By		From Local Currency Supplied By	
	AID	Cooperating Country	AID	Cooperating Country
(1) Office Space		X		
(2) Office Equipment	X			
(3) Heating and Utilities	X			
(4) Furniture	X			
(5) Household Equipment (Stoves, Refriger., etc.)	X			
(6) Transportation in Cooperating Country				
(7) Interpreter Services		X		
Other: (Specify)				
(8)				
(9)				
(10)				
(11)				
(12)				
(13)				
(14)				
(15)				

B. Additional Facilities Available From Other Sources

C. Comments

1/ This section applies to resident advisors only.

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PROJECT IMPLEMENTATION
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Indicate block
numbers.

Use this form to complete the information required in any block of a PIO or PAA form.

19-B

of these aims are attached as Annexes A and B., the Logical Framework and the Implementation Plan, with PERT and by reference are incorporated into this document and made a part hereof.

The shorter-range tasks which the Contractor will be required to accomplish under this funding document are the following:

- 1) Within sixty days of project implementation, submit a current plan of work which details the Contractor's plan to assist the cooperating countries in the implementation of on-going projects. This plan will define: (1) the number, type and location of field fertility trials, with specific reference to the relevancy of these trials to the problems faced by farmers, (2) the number of technicians assigned to the project by cooperating countries, and the academic training levels of these people, and (3) the cooperating country budget for the project, including the value of the facilities directly supporting the project, the number of vehicles and the salaries, per diem and operating costs of the project.
- 2) Train cooperating country field agronomists in the methodology of installation of field fertility trials, to include plot measurements, uniformity of fertilizer application over each plot, uniform application of soil disinfectants and uniform depth of planting of seeds (May-August).
- 3) Provide training to increase the capability of cooperating country agronomists in the statistical design of field fertility trials. This training is to be concentrated on the experimental methodology which is appropriate for studying the effects of the following variables on small farm cropping systems:
 - a) rates of N, P, K;

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- b) intercropping, rotations and fertilization of small farmers' crop production systems;
 - c) lime and other soil amendments
 - d) carryover effects of fertilization of previous crops;
 - e) mulches;
 - f) green manures;
 - g) other organic sources of plant nutrients where such materials are locally available in sufficient quantity to merit study and have physical and chemical characteristics which would allow the imposition of quality control on the materials if they were to be placed in commercial channels (Aug.-Oct.)
- 4) Train cooperating country field agronomists in the proper methodology for harvesting field fertility trials, to include verification of accuracy of scales, evaluation of damaged materials including causes of damage, proper sub-sampling for moisture determination and the identification of these sub-samples (July-Oct.)
 - 5) Aid in development of effective personal linkages between research people and farmers to form a "feedback" system to realign experimentation.
 - 6) Train cooperating country field agronomists in the proper management of field fertility trials, to include identification of nutrient deficiency symptoms, drought symptoms, proper methods for insect and disease control, and the recording of descriptive data, throughout the growing season, which will validate the conclusions drawn from the experimental results (May-Oct.)
 - 7) Identify Soil Scientists who will assist with work on location of soil management analogs (July).
 - 8) Locate, evaluate and reduce to manageable form data relating plant response to use of fertilizers (May-August, 1975)

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- 9) Provide training to cooperating country personnel in the methodology of statistically evaluating (1) results from field trials (2) chemical analysis of soil samples and plant samples from these field trials and the ancillary greenhouse trials and (3) the development of correlations which lead to soil test summaries which can be used as guides to making fertilizer recommendations which can increase production from specific crops or cropping systems when grown on these or similar soils under similar climatological conditions (June-July).
- 10) Reduce existing fertilizer response data to a municipio level (July 31, 1975).
- 11) Data is available in August with which to distinguish soil types where efficient production technology can and cannot be transferred and to delineate and test these areas both within host countries and on a regional basis.
- 12) Ensure that soil scientists are at post, August 1, 1975.
- 13) Train cooperating country soil fertility project personnel in the proper methodology used in initially interpreting results of field fertility trials and assist cooperating country soil fertility project personnel in the incorporation of the results of previous and current year field fertility trials in the preliminary work plan for the following year. (August - September)
- 14) Tentatively identify soils for which crop fertilizer response data exist (October.)
- 15) Assist in estimating needs of supplies, equipment and repairs for laboratories and greenhouses (September).

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- 16) Assist with the preparation of budget and preliminary work plan for the following year to assure applicability of results of following year trials to the cropping systems of small farmers and to assure coordination of project activities with complementary work under existing USAID or other sponsorship (September-October)
- 17) Develop an implementation plan which defines the sequential steps necessary to ensure an orderly turn over of all NCSU activities in the Soil Fertility Project in C.A. to CATIE, Turrialba, C. R. at the end of the project. (May-September, 1975)

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- 2) An extra copy each of form 1034a and the financial report for each voucher shall be sent directly to:
 Controllers Office
 ROCAP/Guatemala
 APO New York 09891
- 3) An "accruals" and a "total accruals and expenditures to date" column will be added to each financial report to reflect expenses by category which have been incurred but not billed and/or paid through the report period.
- 4) The categories and sub-categories reflected in the financial report shall be those contained in the "Illustrative Budget" for this task order.

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Worksheet Invoice

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ILLUSTRATIVE BUDGET - NCSU

5/1/75 - 10/31/75

1. Personnel Costs

A. Salaries & benefits
resident advisors

1) resident advisor	8,530
2) resident advisor	12,656

B. Off-campus overhead 4,555

C. Post differential 1,266

D. Quarters allowance 6,000

E. Educational allowance 1,350

F. Retirement (21,186 x 17%) 3,602

G. Workmens compensation
(21,186 x 0.313) 663

H. Short term contract, local
US or non-US 4,000

I. Home leave (5 RT-Hon Hawaii) 3,250

J. Short term advisors (as specified
in block 19-e) (10 mm) 39,000

Total personnel cost **84,872**

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2. Participants	-----
3. Commodities	-----
4. Other Costs	
A. Travel and per diem	5,500
B. Vehicle operation and maintenance	2,878
C. Postage, communication, supplies, visual aids, etc.	3,750
D. Short term training in-country and/or regional	<u>12,000</u>
Total other costs	\$ 24,128
5. Core Budget Support	
A. Salaries	9,800
B. Overhead (52%)	5,100
C. Other direct costs	4,400
D. Travel and transportation	<u>1,700</u>
Totals	21,000
<u>RECAPITULATION -- NCSU</u>	
1. Personnel costs	84,872
2. Participants	-----
3. Commodities	-----
4. Other Costs	24,128
5. Core Budget Support	<u>21,000</u>
Totals	<u>\$ 130,000</u>