

PD-AAL-850

9364109

AGENCY FOR INTERNATIONAL DEVELOPMENT  
PROJECT AUTHORIZATION AND REQUEST  
FOR ALLOTMENT OF FUNDS PART I

1. TRANSACTION CODE  
 A  
A. A.I.  
B. CHANGE  
C. D.P. ETC

P.A.F.  
3. DOCUMENT CODE  
5

3. COUNTRY/ENTITY DS/AGR/AP  
Type e Program Development and Support

4. DOCUMENT REVISION NUMBER  - (Original)

5. PROJECT NUMBER (7 DIGIT)  936-4109

6. BUREAU OFFICE  
A. SYMBOL B. CODE  
DSB  10

7. PROJECT TITLE (MAXIMUM 40 CHARACTERS)  
 Crop Production/Utilization-Tech. Assist.

8. PROJECT APPROVAL DECISION  
 ACTION TAKEN  
A. APPROVED  
B. DISAPPROVED  
C. AUTHORIZED

9. EST. PERIOD OF IMPLEMENTATION  
YRS  1 QTRS  2

10. APPROVED BUDGET AID APPROPRIATED FUNDS (\$000)

A. APPROPRIATION	B. PRIMARY PURPOSE CODE	PRIMARY TECH. CODE		E. 1ST FY 81		H. 2ND FY 82		K. 3RD FY 83	
		C. GRANT	D. LOAN	F. GRANT	G. LOAN	I. GRANT	J. LOAN	L. GRANT	M. LOAN
(1) ARDN	129I	070	-	200	-	0	-	0	-
(2)									
(3)									
(4)									
TOTALS				200	-	0	-	0	-

A. APPROPRIATION	N. 4TH FY 84		O. 5TH FY 85		LIFE OF PROJECT		P. PROJECT FUNDING AUTHORIZED	
	Q. GRANT	R. LOAN	S. GRANT	T. LOAN	U. GRANT	V. LOAN	1. LIFE OF PROJECT	2. INCREMENTAL LIFE OF PROJECT
(1) ARDN	0	-	0	-	200	-	1	-
(2)								
(3)								
(4)								
TOTALS		0	-	0	-	200	-	81

12. INITIAL PROJECT FUNDING ALLOTMENT REQUESTED (\$000)

A. APPROPRIATION	B. ALLOTMENT REQUEST (\$)	
	C. GRANT	D. LOAN
(1) N/A		
(2)		
(3)		
(4)		
TOTALS		

13. FUNDS REVENUE FOR ALLOTMENT: N/A

TYPED NAME (LAST, FIRST, MIDDLE)  
SIGNATURE  
DATE

14. SOURCE ORIGIN OF GOODS AND SERVICES  
 809  841  LOCAL  OTHER

15. FOR AMENDMENTS: NATURE OF CHANGE PROPOSED

N/A

FOR	APPROVED DATE	FOR IN REFERENCE	FOR IN REFERENCE DATE

PROJECT AUTHORIZATION AND REQUEST FOR ALLOTMENT OF FUNDS

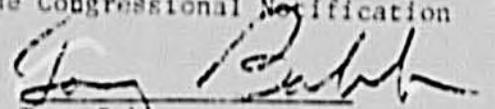
PART II

ENTITY : Bureau for Development Support  
PROJECT : Crop Production and Utilization  
Technical Assistance  
PROJECT NUMBER : 936-4109

I hereby authorize grant funds not to exceed \$200,000 for a 12-month agreement with USDA starting May 1, 1981 and ending April 30, 1982.

This agreement will provide professionally qualified personnel to advise and assist the Regional Bureaus, Missions and LDCs on matters relating to project development and evaluation, training and technical assistance as defined in the Project Statement attached to the Action Memorandum.

Approval is conditioned on completion of the Congressional Notification action.



Tony Babb  
Deputy Assistant Administrator  
for Food and Nutrition  
Bureau for Development Support

Date: 5/5/81

CLEARANCES:

DS/AGR/AP, R.I. Jackson	<u>J. J. Jackson</u>	Date: <u>3/22/81</u>
DS/AGR: M Mozynski	<u>MEM</u>	Date: <u>3/24/81</u>
DS/AGR, K McDermott	<u>K. McDermott</u>	Date: <u>3/25/81</u>
DS/AGR, D Fiester	<u>D. Fiester</u>	Date: <u>3/31/81</u>
DS/AGR/AP, J.M. Yone	<u>J. Yone</u>	Date: <u>3/24/81</u>
DS/PO, A. Silver	<u>A. Silver</u>	Date: <u>4/16/81</u>
DS/PO, B. Chaprick	<u>B. Chaprick</u>	Date: <u>4/16/81</u>

References:

- Action Memo: Fiester to Babb (Attached)
- Project Statement and Budget (Attached)

March 19, 1981

ACTION MEMORANDUM FOR THE DEPUTY ASSISTANT ADMINISTRATOR FOR FOOD AND NUTRITION, BUREAU FOR DEVELOPMENT SUPPORT

FROM : DS/AGR, Donald K. *Donald K. Fiester*  
SUBJECT : Crop Production and Utilization Technical Assistance

BACKGROUND: Your approval is required for a RSSA with the USDA to obtain services of cereal grain and grain legume and oil seed crop experts and scientists to assist the Regional Bureaus (RBs), Missions, LDCs and the Agriculture Production Division, DS/AGR for a period of 12 months at a cost not to exceed \$200,000.

DISCUSSION: The Agriculture Production Division, DS/AGR has a continuous need for staff support to provide specialized technical and professional services to RBs, Missions and LDCs in areas related to cereal grain, grain legume and oil seed crop production and utilization. DS/AGR has had only limited staff to respond to requests on a timely and effective basis.

There is a need to establish within the Division of Agriculture Production a capability to provide assistance as required by the Missions, LDCs, RBs and DS/AGR in the areas of research and technical assistance project design, implementation and evaluation. Subject matter specialists are needed to provide short-term assistance to advise on solutions to problems and diagnoses at the field level.

USDA possesses a comprehensive research and extension program which is staffed by competent scientists and specialists in cereal grain, grain legume and oil seed crop production and utilization. Many of these specialists are available on short notice and can provide assistance to the RBs, Missions, LDCs and DS/AGR. The USDA is willing to make the services of its scientists available to A.I.D. for providing the expertise required.

There is continuous need for providing assistance in developing training materials and publications for the Missions and LDCs. Workshops and seminars are essential as a training component of this project. This RSSA will provide for publishing special scientific/technical documents as well as for conducting training programs, workshops and seminars at Mission or RB request.

The procedure for approving a RSSA agreement requires an annual plan of work and a budget. A Project Statement and a budget for a 12-month period is attached to this memorandum (Attachment A). The budget will fund 25 worker months of short-term technical support, preparation of three sets of training materials, and the presentation of two short courses in LDCs, publications and equipment.

This project appears in DS/AGR's OYB. A Congressional Notification is being prepared. No obligation of funds will take place until the Congressional Notification requirement has been met.

RECOMMENDATION:

I recommend that you indicate your approval for a 12-month RSSA agreement with the USDA from May 1, 1981 to April 30, 1982 in the amount of \$200,000 by signing the attached PAF.

ATTACHMENTS:

- A. Project Statement and Budget
- B PAF, Parts I and II

CLEARANCES:

DS/AGR/AP, R.I.Jackson	<i>R.I. Jackson</i>	Date: <i>4/13/81</i>
DS/AGR/AP, J.M.Yohe	<i>J.M. Yohe</i>	Date: <i>4/24/81</i>
DS/AGR, M.Mozynski	<i>M. Mozynski</i>	Date: <i>3/24/81</i>
DS/AGR, K.McDermott	<i>K. McDermott</i>	Date: <i>3/25/81</i>
DS/AGR, D.Fiester	<i>D. Fiester</i>	Date: <i>3/31/81</i>
DS/PO, A.Silver	<i>ada</i>	Date: <i>4/16/81</i>
DS/PO, B. Chapnick	<i>B. Chapnick</i>	Date: <i>3/4/81</i>

References:

- Action Memo Fiester to Babb (Attached)
- Project Statement and Budget (Attached)
- Memo, Jackson to Fiester (Attached)

## memorandum

DATE: March 30, 1981

REPLY TO  
ATTN OF: DS/AGR/AP, Robert I. Jackson

SUBJECT: USDA's Assurance of Use of Research Results  
THRU: DS/AGR/AP, John M. Yohe

TO: DS/AGR, Donald Fiester

During the discussions Dr. Yohe and I had with the USDA National Program Staff responsible for the research on cereal grain, grain legume and oil seed crops within USDA, we were given assurance that they will take advantage of reliable technical information available from any U.S. or LDC source and provide it to any of the regional bureaus, missions and LDCs. This information would be assembled by USDA for specific TDY assignments, training programs and publications after consultation with the DS/AGR Project Manager. Enroute consultation with International Centers and other U.S. and LDC research centers of excellence will be programmed to minimize input from other sources while meeting regional bureau and USAID assistance requests in this area.

The USDA staff members realize that there are research results from sources other than the USDA which may have more direct applicability to LDC conditions than those which the USDA scientists normally operate. On the other hand, there is a vast amount of technology available from USDA's program which has and can prove extremely beneficial to the small farmer target groups.



OUTLINE FOR PROJECT STATEMENT  
FOR  
CROP PRODUCTION AND UTILIZATION TECHNICAL ASSISTANCE

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Project Title: Crop Production and Utilization Technical Assistance  
Project Number: 936-4109  
USDA/RSSA: To Be Determined

I. A.I.D. STRATEGY AND POLICY:

A.I.D.'s agricultural strategy objectives are centered upon increasing LDC capacity to expand production, utilization and distribution of food supplies to alleviate hunger and malnutrition, and expanding the participation of poor people in the process and benefits of development.

It is DS/AGR's policy to give priority attention to those programs which promote better use of agricultural technologies and provide the base for expanding production and utilization. In so doing, DS/AGR has sharpened the focus of its program to embrace those topics which are of the greatest concern to the rural poor generally and which provides opportunities for production and utilization of foods having greater nutritional quality and for income generation for poor people.

II. JUSTIFICATION:

A. Background:

The chief economic activity and source of employment in the LDCs is agriculture and will very likely continue to be in the foreseeable future. Yields of cereal, legume, and oil seed crops are by and large relatively low. Because of the lack of improvement in productivity and the high growth rate of population, domestic food demand has been met for a long time by increasing production through extension of crop area and through the importation of grain.

The cereal grains provide over 75 percent of man's energy and more than 50 percent of his protein. The cereals will probably continue to be our most important source of food. The present productivity of these crops is relatively low and there is a great potential for increasing yields and production. It is estimated by some authors that the yields in many LDCs can be doubled within a few years through the use of improved technology and the use of agricultural inputs.

Grain Legumes are sorely needed as sources of food protein to balance human diets. They are important sources of nitrogen in the cropping system and may, through biological nitrogen fixation, partially replace nitrogen fertilizers that are now scarce and exorbitantly expensive. Adapted varieties may be comparatively high yielding and profitable crops. There are suitable markets for dry food grain legumes in the developed countries as well as in the local urban markets of the tropical and subtropical LDCs.

The six major annual oil seed crops are: peanuts, sesame, safflower, sunflower, cottonseed and soybeans. All of these are edible for man and livestock; as a whole seed, oil, and cake or meal after oil extraction. All of these crops are adapted to the tropics and subtropics. Edible oil seed crops can and should play an increasingly important role in meeting dietary protein needs. They are high in total protein and when the high value oil is extracted, the resultant cake or meal has even greater value as a protein food than the original seed.

Sufficient evidence exists to indicate that these crops have the potential to provide both nutritional and economic benefits to the small farmer. They provide a substantial quantity of high quality nutrients per unit of land area. There is already widespread interest in developing cereal grain, grain legume and oil seed crop production for national food use in many of the LDCs.

Much of the technology needed to increase the access of the poorer segment of LDC populations to the nutritive and economic value of these crops already exists. The probability of making substantial improvement in the utilization of this technology appears to be high.

The project will be based on the many years of experience with these crops at U.S. institutions including production and utilization technology in domestic and international situations and associated technologies, particularly in the fields of entomology, plant pathology, soils, engineering, weed control, nutrition and economic analysis.

Linkages between collaborating national and international centers need to be established to foster and encourage the production of cereal grain, grain legume and oil seed crops in the LDCs. The international centers have been responsible for a generation of improved technology from their research. The research conducted by the international centers has involved the use of a much wider spectrum of germplasm than is encountered in temperature-zone varieties and can lead to the release and use of improved cultivars in the LDCs.

Recently, the international centers have been paying particular attention to factors which improve yield stability and ability to withstand adverse conditions (both climate and soil). This has permitted the extension of the benefits of the new technology to disadvantaged or previously by-passed farmers in the LDCs.

An attempt is being made to build in as much resistance as possible in order to minimize the need for chemical controls. This is of vital importance to the small farmer who has neither funds nor the knowledge to adopt chemical techniques. Research workers are attempting to develop increased plant tolerance of drought, high or low temperatures, adverse soil conditions and other factors. Special attention has been given to make sure that the nutritive value of the crops is not lowered and where possible, is raised.

U.S. universities and institutions have and are conducting research which has immediate application in the LDCs. Some of this research plays an important role in filling in the cracks between that carried out among the international centers. This research is often very closely related to that initiated in the LDCs and is responsive to the small farmers' requirements. In some instances, the LDCs are carrying out research programs which have direct applicability to other LDCs with similar environmental and soil conditions.

USDA will make a decided effort to take advantage of the store of technical information available from the research conducted by the international centers, national agencies and LDCs when providing assistance through this project to regional bureaus, missions and LDCs.

Improved crop husbandry practices can be clearly demonstrated to significantly increase crop production through the uses of improved varieties, recommended inputs and adapted cultural practices. Crop yields can be significantly increased in the LDCs by up to 50 percent.

Utilization of the grain legume and oil seed crops as sources of protein need to be shown to the rural and urban populations. Since both of the groups of crops are relatively high in protein, they can do much to alleviate the malnutrition resulting from protein deficiencies in the diets. Protein malnutrition in man is much more serious and devastating in infants children than mere shortages of food energy. Protein needs are constant and deprivation may produce damaging effects that are irreversible.

B. Requirements to Achieve Project Purpose:

The Agricultural Production Division, (DS/AGR/AP), has a continuous need for staff to provide specialized technical and professional services to Regional Bureaus, Missions and LDCs in areas related to cereal grain, grain legume and oil seed crop production and utilization. DS/AGR lacks adequate numbers of appropriately trained, experienced people in the proper disciplines for the problems on which it has to concentrate.

Furthermore, A.I.D. does not have the numbers and quality of food and agriculture staff necessary to make the necessary judgments in project management and implementation. Mission staffs are stretched thin in many LDCs. The ability of A.I.D. to deliver appropriate technical assistance to small farmers in LDCs has declined over the past years.

There is a need to establish within the Division of Agricultural Production a capability to provide assistance as required by the Missions, LDCs, and Regional Bureaus in the areas of research and technical assistance, project design, implementation and evaluation of proposed or on-going projects. Subject matter specialists are needed to provide short-term assistance to advise on solutions to problems and diagnosis at the field level.

This project will be complimentary to the other DS/AGR Agricultural Production projects and in addition, provide the necessary technical assistance across the board in the areas of cereal grain, grain legume and oil seed crops. The two on-going CRSPs in sorghum/millet and beans/cowpeas provide research and technical services associated with the research only. The Seed Program and Industry Development Project provides technical assistance which is only associated to seed processing. The Integrated Crop Protection Methods Project is concerned with only pest management and the Weed Control Projects cover only the problems associated with weeds.

This new project, Crop Production and Utilization Technical Assistance, will draw on the vast resources of the USDA which possesses a comprehensive research and extension program, staffed by competent scientists and specialists in the crops to be covered by this project. Many of these scientists are available on a rather short-term notice and can provide short-term assistance to the Missions and LDCs. The USDA is willing to make the services of its scientists available to A.I.D. for providing the expertise required. To the extent that the scientists and experts are not available or cannot cover the problem area, the USDA will draw on the expertise of the U.S. university community under its existing Cooperative Agreements and from outside consultants.

DS/AGR requested the Missions to comment on the usefulness of its projects as to their importance to rural development, to rural sector institutions and to their assistance in the design, operations and evaluations of either on-going or future mission projects. The replies from the Missions clearly indicate that the Crop Production and Utilization Technical Assistance Project would be very beneficial and helpful in providing assistance to the Missions and host countries.

III. STATEMENT OF WORK:

A. Summary:

This RSSA will enable A.I.D. to draw upon the resources of the USDA for assistance in cereal grain, grain legume and oil seed crop production where little direct hire capability within A.I.D. exists. The USDA has broad and comprehensive crop production and utilization research and extension activities and maintains an extensive staff of professionals who are experts in many aspects of crop production and utilization. Through this RSSA, A.I.D. will be able to utilize USDA experts within the staff power available and on an as-needed basis.

The services of USDA crop production specialists and scientists will strengthen technical skills of DS/AGR's Agricultural Production Division. These services are needed to develop a capability to support crop production and utilization programs planned and implemented in the LDCs by Missions, Regional Bureaus and DS/AGR/AP.

B. Project Purpose:

The general objective of this project will be for the USDA to provide upon request, technical assistance to AID/W, the cooperating countries, and Missions for planning and implementing projects for increased production and improved utilization of cereal grain, grain legume and oil seed crops. This project will foster their production in LDCs as an economical and nutritious food for LDC populations, particularly for the urban and rural poor.

C. Technical Assistance Activities:

Tasks to be undertaken by personnel provided under this agreement include the following:

1. Develop a center of expertise for the transfer of professional and technical advice and assistance to other Bureaus and Offices within A.I.D., Missions and host countries on crop production and Utilization.
2. Participate in evaluations of projects and give advice on technical sufficiency and appropriateness of projects.
3. Assist in the development of training materials and programs in LDCs and the U.S. to meet needs in host countries.
4. Provide for the preparation of publications on selected aspects of crop production and utilization.

5. Develop and maintain reference and other informational materials on the technical, economic, and managerial aspects of crop production programs and utilization.

6. Develop and carry out a program of in-country advisory and consulting services in crop production and utilization for LDCs and A.I.D.

D. Expertise Required:

Short-term experts will be provided to meet specialized requests from A.I.D./Regional Bureaus, overseas missions and DS/AGR/AP. The Project Manager will notify USDA of the requirements for TDY assignments. In collaboration with the Project Manager, the USDA will select experts and scientists for TDY assignments.

Short-term experts may include the following:

1. Agronomy: This area includes all cropping systems, genetic evaluation, and seed production of cereal grain, grain legumes, and oil seed crops.

2. Soils - Fertility and Chemistry: This area includes use of fertilizers, and the efficient utilization, recycling and conservation of the natural soil nutrient resources. It is also concerned with the nutrient cycling in alternative cropping systems under different management practices and varying soil-climatic environments.

3. Farm Equipment and Tillage: This area includes the art of development of systems for the use of draft animals and the development of improved animal-drawn implements for tillage and cultivation. It also includes the integration of mechanical power into the various systems of farming.

4. Pest Management: This area includes entomology, pathology, and other pests of cereal grains, grain legumes, and oil seed crops.

5. Crop Processing and Utilization: This area includes processing and utilization of the three classes of crops as economical and nutritious foods for LDC populations.

Specialists from several disciplines will apply their technical expertise to the solutions of A.I.D. identified LDC development problems. USDA will provide authoritative expertise from within USDA or outside USDA and other specialized assistance as recognized by A.I.D. and required for particular design and study efforts. These experts and scientists should possess a composite of the following attributes, qualifications and/or experience:

1. Professional and scientific stature to command respect and to work at peer levels with scientists in all areas of responsibility.

2. Professional experience as a professional agricultural specialist including organizational responsibility for planning and managing programs and projects.

3. Demonstrated ability to assess the soundness and economic feasibility of proposals for economic advancement in relation to conditions existing in specific countries.

4. Ability to deal successfully with senior government officials or scientists in recipient countries, as well as with representatives of other sponsoring agencies on policy issues of major importance to the development of programs.

E. Supervision and Guidance:

1. This project will be supervised by the Project Manager of DS/AGR/AP who will be responsible for approving and expediting all requests from Regional Bureaus, Missions, LDCs and others for technical assistance and services which include the following:

- a. technical assistance for crop production and utilization,
- b. training, workshops or seminars,
- c. publications.

2. USDA will appoint a qualified expert to supervise all activities initiated under this project and will be the primary liaison officer with the Project Manager of DS/AGR/AP.

F. Special Provisions/Conditions

1. Limitation of Assistance: The period of TDY technical services will be limited to 30 days per scientist or expert per request unless a longer period is specifically justified and authorized by the Project Manager.

2. Reports: The USDA will submit a complete Activity Report to DS/AGR/AP, and the pertinent Regional Bureau, Mission/LDC on each TDY, workshop or seminar, or other specific services/assistance requested within 60 days after completion of assistance/service. Interim summary reports will be provided sooner, even prior to departure from the LDC, when necessary and requested.

An Annual Report will be submitted within 60 days after completion of each 12 month budget period. Five copies are to be provided to DS/AGR/AP. This report shall contain, but not be limited to the following:

- a. Summary of technical services by Regional Bureaus, Missions/LDCs.
- b. Training programs including workshops/seminars conducted including location and number of participants in each.
- c. List of publications and reports prepared.
- d. List of staff and time each devoted to project activities.

Other publications will be used to disseminate information as requested and deemed appropriate by the DS/AGR/AP Project Manager.

3. Project Evaluation: The A.I.D. requirement of an annual evaluation will be implemented within 30 days prior to the completion of each 12 month budget period. The technical assistance and services will be evaluated in terms of the results produced as compared to the implementing instructions provided.

IV. BUDGET:

The funds herein shall be used to finance the following:

COST ELEMENT: FUNDING PERIOD  
FR: 5-1-81  
TO: 4-30-82

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Personnel Cost (25 person months, approximately)	\$ 75,000
Personnel Benefits	7,500
Travel	40,000
Training, Materials, Seminars, Workshops, In-service Training	35,500
Printing and Related Costs, Including Publications	5,000
Miscellaneous Equipment	1,000
Negotiating Contingencies	3,500
Overhead	<u>32,500</u>
TOTAL	\$ 200,000