

AGENCY FOR INTERNATIONAL DEVELOPMENT
PROJECT DATA SHEET

1. TRANSACTION CODE: **A** (A = Add, C = Change, D = Delete)
Amendment Number: **3**
DOCUMENT CODE: **3**

2. COUNTRY/ENTITY: **S&T/AGR Sub-Program 2**

3. PROJECT NUMBER: **931-0203**

4. BUREAU/OFFICE: **S&T/AGR** **10**

5. PROJECT TITLE (maximum 40 characters): **Seed Program and Industry Development**

6. PROJECT ASSISTANCE COMPLETION DATE (PACD): MM DD YY **09 30 84**

7. ESTIMATED DATE OF OBLIGATION (Under "E" below, enter 1, 2, 3, or 4)
A. Initial FY **58** B. Quarter **3** C. Final FY **83**

B. COSTS (\$000 OR EQUIVALENT \$) =

A. FUNDING SOURCE	FIRST FY			LIFE OF PROJECT		
	B. FX	C. L/C	D. Total	E. FX	F. L/C	G. Total
AID Appropriated Total						
(Grant)	(200)	()	(200)	(3,745)	()	(3,745)
(Loan)	()	()	()	()	()	()
Other U.S.						
1.						
2.						
Host Country						
Other Donor(s)						
TOTALS	200		200	3,745		3,745

9. SCHEDULE OF AID FUNDING (\$000)

A. APPROPRIATION	B. PRIMARY PURPOSE CODE	C. PRIMARY TECH CODE		D. OBLIGATIONS TO DATE		E. AMOUNT APPROVED THIS ACTION		F. LIFE OF PROJECT	
		1. Grant	2. Loan	1. Grant	2. Loan	1. Grant	2. Loan	1. Grant	2. Loan
(1) FN	112	011		3,545		200		3,745	
(2)									
(3)									
(4)									
TOTALS				3,545		200		3,745	

10. SECONDARY TECHNICAL CODES (maximum 6 codes of 3 positions each)
070 012 013 031

11. SECONDARY PURPOSE CODE

12. SPECIAL CONCERNS CODES (maximum 7 codes of 4 positions each)
A. Code: BF R/AG
B. Amount

The purpose of this amendment is to extend the life-of-project for 60 days from May 1, 1984 to June 30, 1984 and to increase the life-of-project funding by \$200,000 to cover this extension and readjustment in indirect costs to conform with the changes in negotiated rates.

14. SCHEDULED EVALUATIONS: Interim MM YY MM YY Final MM YY

15. SOURCE/ORIGIN OF GOODS AND SERVICES: 000 941 Local Other (Specify)

6. AMENDMENTS/NATURE OF CHANGE PROPOSED (This is page 1 of a _____ page PP Amendment)
To extend the authorized final year of obligation to FY 1983 and to increase the authorized life-of-project to \$3,745,000. This will enable the Cooperative Agreement with Mississippi State University to be extended to June 30, 1984.

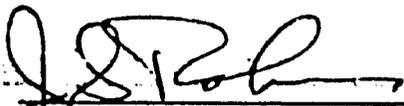
17. APPROVED BY: **S&T/FA, Dr. J. S. Robinn**
Date Signed: MM DD YY **06 23 83**

18. DATE DOCUMENT RECEIVED IN AID/M, OR FOR AID/M DOCUMENTS, DATE OF DISTRIBUTION: MM DD YY

PROJECT AUTHORIZATION AND REQUEST FOR ALLOTMENT OF FUNDS

ENTITY : Bureau for Science and Technology
PROJECT : Seed Program and Industry Development
PROJECT NO. : 931-0203

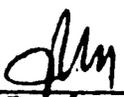
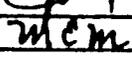
1. Pursuant to Section 103 of the Foreign Assistance Act of 1961, as amended, Seed Program and Industry Development project which is centrally funded was amended on April 30, 1979. That authorization is hereby amended as follows:
 - a. The authorized final year of obligation is extended to FY 1983.
 - b. The authorized life-of-project cost is increased from \$3,545,000 to \$3,745,000.
2. The authorization cited above remains in force except as hereby amended.



J. S. Robins
Directorate
Food and Agriculture Science
and Technology Bureau

Date: 6/23/83

Clearances:

S&T/AGR/AP:JMYohe  Date 6/17/83
S&T/AGR:MMozynski  Date 6/17/83
S&T/PO:GEaton _____ Date _____

S&T/AGR:3/31/83

June 17, 1983

**ACTION MEMORANDUM FOR THE AGENCY DIRECTOR FOR FOOD AND AGRICULTURE,
BUREAU FOR SCIENCE AND TECHNOLOGY**

FROM : S&T/AGR, Anson R. Bery 
SUBJECT: Authorization for Extension of the Seed Program
and Industry Development Project

Problem: Your approval is required to extend the Seed Program and Industry Development project under a Cooperative Agreement with Mississippi State University (MSU) for a period of 60 days and to add \$200,000 to cover this extension and the short-fall in prior year overhead rates.

Discussion: Under this Cooperative Agreement, MSU is providing assistance to LDCs to establish effective, efficient production and supply systems for seed of improved varieties of basic food crops and seed of specialty crops such as vegetables and forage/fodder crops.

Improved seed is the key and crucial input in increasing the production of crops. The benefits of crop introduction, improvement and breeding research are extracted only to the extent that seed of the improved varieties are produced in adequate quantities, distributed to farmers at the proper time, and planted by farmers. Unless seed of the improved varieties are produced, distributed and planted by farmers, there are no benefits from crop improvement research and development activities. Likewise, the key input in the 'technological package' offered to farmers by extension services and projects is seed of improved varieties. Extension projects are successful only to the extent that seed of improved varieties are available for assembling the 'technological package'.

While the genetic potential of the seed is paramount in terms of yield improvement, the quality (physical and physiological) of the seed planted has an impact on production. Good quality seed of a crop variety can increase yields by 10-15 percent over low quality seed of the same variety, i.e., same genetic potential. This benefit can be extracted without additional input (save for the good quality seed).

Another periodic but very important benefit of a seed production and supply system is rehabilitation in the wake of natural disasters such as floods, and unseasonable droughts. The major constraint to rapid rehabilitation in most cases is a shortage of seed. A seed program/industry can supply the seed needed for rapid rehabilitation often in time to permit crop production in the same season.

Still another benefit of an effective seed production and supply system is its capacity to expedite and facilitate the introduction of new crops in a country or region thereof. Farmers have experience in 'seed-saving' for traditional crops, but not for new crops.

Therefore, some years are required for the farmers to gain the experience needed to maintain the viability of seed of new crops from harvest to the next planting season. A seed production and supply program or industry has the personnel resources and facilities to produce, maintain and supply seed of new crops during the years the farmers are gaining experience and periodically thereafter, as new varieties are released.

MSU started an international seed technology assistance program in 1956 with A.I.D. support. Through the years MSU has contributed to the successful completion of projects and programs in the LDCs. Most recently MSU through the cooperative agreement has provided technical assistance for the development of seed farms and seed production and supply program in Burma involving maize and oil seeds. This new program will increase maize production by 375,000 MT, groundnuts by 375,000 MT, sesame by 49,100 MT, sunflower by 65,500 MT and soybeans by 72,000 MT. Achievement of these production goals should increase gross farm income by \$161.1 million and generate other benefits for a total increased income of \$280.0 million.

In the Cameroon assistance was provided to develop a project paper and technical specifications for the expansion of the North Cameroon Seed Project Phase II. This project is designed to be the major means by which 'efficient linkages to facilitate transmission of research results to the farmer' will be achieved. The projected results of supplying improved seed to farmers will increase peanut production by 15,500 MT per year, corn by 23,400 MT and sorghum by 22,900 MT. This production will have an annual value of 25 million in benefits.

Under the terms of various agreements with A.I.D. since 1958 and including the present cooperative agreement, MSU has made major contribution to the seed program/industry of over 40 countries. In most of these countries MSU-trained seed specialists and managers occupy key positions in the seed program/industry. Training programs have been established in LDC universities which are now offering training opportunities to personnel from other LDCs. More recently MSU played a major role in the establishment of a Seed Unit within CIAT which has developed a wide range of training programs for participants from LA and the Caribbean countries. Requests for assistance continue to be received from the Missions.

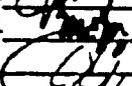
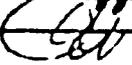
The current cooperative agreement covers a period from May 1, 1979 to April 30, 1984 at a total cost of \$1,528,000. The \$690,000 obligated in FY 1982 completed the funding of the agreement amount but was not sufficient to fund through the termination date of April 30, 1984. This shortfall in funding was due to the renegotiated indirect costs as determined by the U.S. Government for MSU. To cover the shortfall and the 60 day extension, a total of \$200,000 is required.

The 60 day extension of the cooperative agreement is required to allow time for an orderly extensive evaluation by the National Science Foundation, and the development of a revised project paper and cost sharing formula for Mission Buy-Ins. We are requesting \$200,000 for FY 1983 (which is in the OYB) to cover the funding period through June 30, 1984.

Recommendation: That you indicate your approval to proceed with the 60 day extension of the cooperative agreement with MSU and the use of \$200,000 from AID funds by signing the attached PAF.

Attachment:

- A. Letter requesting extension
- B. PAF

Clearance: S&T/AGR/AP: JMyohe  date: 6/17/83
S&T/AGR: M Mozynski  date: 6/17/83
S&T/PO: GEaton  date: 6-22-83

Drafted: S&T/AGR: M Mozynski: 3/30/83

Wang 0353e Budget Disk



MISSISSIPPI STATE UNIVERSITY
DIVISION OF AGRICULTURE AND FORESTRY
MISSISSIPPI STATE, MISSISSIPPI 39762-5970

Office of International
Programs

Post Office Drawer NZ
Tel: (601) 325-3204

March 25, 1983

Ms. Mary Mozenski
Agency for International Development
S & T - AGR - Room 409 - RTC
Washington, DC 20523

Re: Cooperative Agreement
No. AID/DSAN-CA-0148

Dear Ms. Mozenski

Enclosed is a financial statement of subject Cooperative Agreement and estimated costs beyond the October 31, 1983 date to which funds have been allocated. By means of this letter and supporting materials we request AID to consider the following two requests:

- (1) Provide additional funding to carry the project to the end of the period of the Agreement, April 30, 1984. Presently budgeted funds will expire soon after October 31, 1983. Although the funds were originally budgeted in 1979 to support the project until April 30, 1984, increased travel costs and indirect costs chiefly were responsible for the shortfall. The change in the method of calculating Indirect Costs from the Salary Base to Modified Direct Costs increased project costs rather significantly. Although AID has not amended the Agreement to allow the University to bill for the increased Indirect Costs, the UMB negotiated rates are included in each column of expenditures, estimated expenditures and total estimated budget.
- (2) Extend the termination date of the Cooperative Agreement from April 30, 1984 to April 30, 1985. A budget and program description is enclosed to support this request.

Thank you for your consideration.

Sincerely

H. Dean Bunch
Director

DB/dbw

Enclosure: Financial Statement
Program Description

PROGRAM DESCRIPTION FOR COOPERATIVE AGREEMENT
No. AID/DSAN-CA-0148 with Mississippi State University
25 March 1983

Program Description

A. Purpose of this Cooperative Agreement.

The purpose of this Cooperative Agreement is to assist Mississippi State University in the development, refinement and maintenance of technical capability in the field of seed technology and to provide for the use of such capability in the development of seed programs and industries with the capability of serving the needs of farmers in less developed countries.

B. Specific Activities (Scope of Work)

In carrying out the purpose of this agreement the recipient is expected to engaged in a variety of activities related to seed technology and be responsive to the needs and concerns of the governments and farmers in the less developed countries. These will involve identification of problems in LDC seed technology, applied research directed toward the resolution of such problems and the dissemination of information based upon the work carried out under this agreement. The recipient will also be expected to develop programs for technical training of host country personnel and provide in-country technical services to host country government entities LDC private sector enterprises and the AID which will utilize and expand upon their technical capabilities.

Funds made available under this Agreement will be used for the following specific activities:

1. In-country Services to USAID Missions: The recipient will, in consultation and with the approval of AID, develop and carry out a program of in-country advisory and consulting services in seed technology for host countries and AID. In doing so, the recipient will respond to Bureau and Mission requests for such services to the extent possible. The period of in-country consulting services will be limited to 30 days per consultant/specialist per request unless a longer period is specifically justified and authorized by the Project Manager. In-country services will receive first priority. Total in-country service effort shall be approximately 34 person-months per year and cannot exceed 40 person-months per year without prior written approval of the Grant Officer. The purpose of the in-country efforts will be to:

a. Thoroughly review with Mission, host country and other concerned personnel on-going or planned host country, AID or other projects in which a seed production and supply capability and system is or should be integrated.

b. Make on-site analyses of the status and needs relating to seed production and supplies to include possibilities for development of private sector seed production-marketing operations.

c. Collect the technical, climatic and economic data needed to formulate recommendations and develop designs and specifications.

d. Determine the specific requirements for establishing a seed program or improving existing ones to include policies and technical

requirements which will encourage and assist development of private sector seed enterprises for seeds of the basic food crops.

e. Work cooperatively with the LDCs, AID and cooperating agencies in the identification and implementation of short term technical training activities with host countries and/or at the regional level.

f. Assist LDC personnel with installation and operational checks of technical facilities and equipment.

g. Prepare facility designs, layouts and equipment specifications, formulate recommendations and write comprehensive reports.

2. Identification and Resolution of Technical and Economic Problems:

Technical and economic problems in seed technology require applied research efforts to resolve. The recipient will attempt to identify such problems at an early point so that work can be undertaken to resolve them before they severely impede LDC seed technology development programs. The adaptive research and/or technical innovations to be carried out will be directly related to recipient technical service efforts to LDCs. All such programs will be developed in consultation with and with the approval of the A.I.D. Project Manager and the Project Manager will be kept informed of the work conducted.

During the life of this Agreement, major emphasis will be given to: (a) developing "appropriate technology" for drying and testing seed; (b) developing procedures for separation of noxious weed seed and seed from other varieties of "good" seed; (c) developing management and quality control procedures that are better adapted to operational conditions in the LDCs; and (d) development of better procedures for the economic and

financial analysis of seed programs or seed program proposals in the LDCs. The total annual effort by the recipient shall be approximately six (6) person-months but shall not exceed eight (8) person-months without prior written approval of the Grant Officer.

3. Information Services: The recipient will be expected to develop and maintain (on campus and elsewhere) reference and other informational materials on the organization, technical, economic, and management aspects of seed programs, specific components thereof, and for specific crops. These will be distributed on request to personnel and agencies in the LDCs, the Bureaus, Missions, other AID contractors, international technical assistance and lending agencies and institutions and others as AID may designate.

In most cases, more specific advice and information than available in prepared materials will be required. The recipient will locate, collect, and/or develop and transmit the information requested. In addition, the recipient will develop new or revised information reference articles on timely subjects related to the technical management, operational and economic aspects of seed program development. The recipient's effort devoted to these Information Services shall be approximately eleven (11) person months annually but will not exceed fourteen (14) person months without prior written approval of the Grant Officer.

4. Training Programs: The recipient is expected to plan and conduct training programs for host country personnel of varying intensity depth and duration with emphasis on the technical, operational and managerial

phases of a seed industry program. Training programs will be U.S., regional, and in-country, and range from graduate degree programs to on-the-job training for workers at the operational level. Also, assistance will be given to agricultural educational institutions in the LDCs in the establishment of educational training programs in seed technology or upgrading programs that are already established.

Such programs may be developed either at the present of the Project Manager or at the recipient's own initiative. In all cases training programs plans will be submitted to AID for review and approval prior to implementation. It is expected that approximately five courses will be conducted annually. Recipient's effort devoted to training shall be approximately thirteen (13) person-months per year but will not exceed fourteen (14) person-months without prior approval of the Grant Officer.