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PD-AAL-786

PROJECT SUMMARY - GENERAL TECHNICAL SERVICES

Project Title Technical Assistance in Food Grain Storage, Handling and Transportation

Project Number 931-11-190-786-73-3192003 Contract No. csd-1588
Food and Feed Grain Institute Name of Contract
Contractor Kansas State University Representative William C. Hoover

Project Monitor Carl F. van Haeften Extension 21782

1. Project Goals and Justification

Estimates of food losses in LDCs from the field to the consumer go as high as 50%. In many countries, food losses equal and even exceed food deficits. In a number of countries, dramatic steps are being taken to increase food production. As losses are especially acute during post harvest handling and storage at the farm and community level, the production gains are likely to be wiped out unless significant improvements are made in drying, storage, handling and transportation of food grains. Improved storage, marketing and transportation systems and facilities are in most instances a prerequisite for countries attempting to regulate markets and maintain incentive prices for producers. Discussions with representatives of the regional bureaus, USAIDs, cooperating countries, USDA and others pointed up the need for technical assistance to all countries on a worldwide basis which are engaged in accelerating the production of food grains. Kansas State University has extensive experience in the handling, storage and processing of food grains and was selected to support LDCs through a worldwide technical assistance contract in resolving problems in this general area.

The original scope of services which details some 15 types of activities remains valid.

Most requests for services have been on individual country programs, however, KSU has already responded to two requests for regional services on grain stabilization programs for West Africa and for Central America, and several worldwide activities have been or are being undertaken such as group training courses and the production of manuals for worldwide distribution and use.

2. Major Issues to be Resolved

a. TA/AGF, Regional Bureaus and specific country Missions which have requested services from KSU are well satisfied. KSU has met each and every request for services in a timely and highly satisfactory manner.

b. A major issue is the failure of host countries and USAIDs to avail themselves of KSU's capability to provide technical assistance in the area of on-farm and community level storage problems. Major

losses occur at that level. To date, host countries and USAIDs continue to emphasize the larger projects at national and regional levels. The issue is, "how to generate projects at the farm and community level." We have advised the USAIDs of the services available from KSU under this project, and we emphasized the need to initiate projects at the farm and community level. We have had a large number of takers from KSU's services, but none directed towards grain problems on the farm in the local communities. There is no immediate solution other than to continue to emphasize the need for USAIDs and host countries to recognize the need for on-farm activities and to offer KSU's expert services.

c. Funding

Funding should be continued at approximately the current level of \$130,000 annually.

Only \$80,000 in new funds are required in FY 1970 because some of the funds provided earlier remain available. The unexpended balance is a result of deliberate delays in recruiting permanent staff members until there was a clear response from the USAIDs for services under this contract as expressed in terms of actual requests for services. A second full time staff member was added in July of 1969, and the third staff member will be added in the immediate future. The funding proposed for FY 1970 and FY 1971 is based on our best estimate of projected workload and an average cost of about \$11,000 per month.

3. Evaluation of the Contractor's Performance

a. Contractor's performance has been excellent in all respects. Work is on schedule and contractor has been exceptionally responsive to urgent requests, and the contractor is fulfilling all requirements of the contract.

b. Contractor is receiving necessary support from host governments and USAIDs.

c. Only problems encountered to date are inadequacies of the scope of work from some USAIDs when requesting technical assistance from KSU. In at least two instances this was resolved by obtaining USAID concurrence for an advance consultation of a KSU staff member to assist the host country and USAID to define the scope of work for the services to be performed by KSU. This was successfully done in Guatemala and a KSU staff is currently performing this service in Ecuador.

4. Accomplishments

Since this project was reviewed in January 1969, KSU has responded to requests for technical assistance from Morocco, India, Guatemala, El Salvador, Honduras, Costa Rica, Brazil and Ecuador by sending

consultants to those countries and publishing reports on the problems towards which the services were directed. Consultants are currently working in Brazil and Ecuador.

The following six reports have been published:

- Report No. 10: Review of Grain Storage Handling and Distribution in Morocco
- Report No. 11: Report on Grain Sanitation Workshop - India
- Report No. 12: Annual Report 1968-69
- Report No. 13: Observations on the Corn Marketing System in Guatemala
- Report No. 14: An Analysis of Grain Storage and Price Stabilization Problems in EL Salvador
- Report No. 15: Review of Elevator Project in Honduras

Memorandum reports were prepared on the following subjects:

Four KSU staff members reviewed a commercially prepared report on "A Grain Stabilization Study of the Entente States and Ghana" at the request of the Bureau for Africa and outlined in memo form recommendations for A.I.D. consideration.

KSU corresponded with the Asia Productivity Organization to advise on a proposed survey and training course on Storage and Transportation of Food Grains.

KSU prepared material for USAID/India in response to a request for advice on rice drying equipment.

During the period, two full-time KSU staff members, three part-time staff members and two consultants performed services under the project.

5. Recommended Course of Action

The project should be continued as is.

Requests are on hand for additional work in India, Guatemala and Ecuador. Further requests for KSU assistance are now pending formal submission from Morocco and Indonesia.

A circular airgram will be sent to the field reminding USAIDs of the services available under the contract. A similar message last year

resulted in the 11 requests which KSU has already acted on.

During the coming year we expect to carry out the following additional activities:

a. Develop and hold the first international short course in Manhattan in early autumn. The planning is for a course of 4 weeks duration for 30 international participants. Our long range plans would anticipate holding this course in the future in other areas of the world as regional training programs.

b. Initiate the background studies necessary for the development of a Guideline for Successful Grain Marketing Programs in Developing Countries.

c. Develop the first of a series of manuals dealing with proper storage and drying of grains with the emphasis being on quality maintenance and prevention of losses from insects and rodents. These booklets would be designed for large circulation as basic training or educational tools.

Drafted by: TA/AGF:Carl F. van Haeften:1/14/70

Project Title Technical assistance in food grain drying, storage, handling and transportation. Contract/ Initial Funding Date 6-30-67
 Project Number 931-11-190-786-73-3192003 ~~XXXX~~ No. csd-1588 Final Obligation Date 6-29-72
 Name of Contractor or P.A. Food and Feed Grain Institute Funding Anniversary Date 4-1-70
 Project Monitor Carl F. van Haeften Extension 21782

Budget Categories	Cumulative Firm Budget	Projected Budget	FY 1970		Projected Budget		FY 1970		FY
	Obligations Thru 10/31/69	Cam. thru 10/31/69	Obligations (Net)	Projected Budget 11/1/69-12/31/70 ^{2/} Total	Obligations (Net)	Projected Budget 11/1/69-3/31/71 ^{3/} Total	Obligations (Net)	Projected Budget (Net)	Bud
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
				(2+3)	(4-1)		(2+6)	(7-1)	
1. Personnel (list Positions)	131,556	63,186	94,310	157,496	25,940	111,810	174,996	43,440	75,000
2. Allowances Consultant Fees	19,500	14,000	11,960	25,960	6,460	13,960	27,960	8,460	8,000
3. Travel & Transportation	18,530	3,583	6,040	9,623	(-8,907)	7,290	10,873	(-7,657)	5,000
4. Other Direct Costs	4,900	4,065	5,105	9,170	4,270	6,105	10,170	5,270	4,000
5. Overhead	63,819	32,288	48,192	80,480	16,661	57,135	89,423	25,604	38,000
6. Equipment & Supplies	11,050	11,705	3,550	15,255	4,205	4,175	15,880	4,830	2,000
Total	249,355	128,827	169,157	297,984	48,629	200,475	329,302	79,947	132,000

1/ This figure must be obtained from the contractor and represent actual accruals; i.e., the monetary value of material received, services actually performed, travel already taken, etc.

2/ Estimated amount to extend the contract from the firm budget period to December 31, 1970.

3/ Estimated amount to extend the contract from the firm budget period to March 31, 1971.

4/ Estimated amount required to extend the contract for an additional year or to completion, whichever is less.

GENERAL TECHNICAL SERVICES

Project Title Grain Drying and Storage

Project Number 931-11-150-786

Starting Date FY 1967 Termination Date Indefinite

Cumulative Obligations	June 30, 1968	154
(in thousand \$)	FY 1969 Actual	95
	FY 1970 Estimate	125
	FY 1971 Proposed	125

Name of Contractor(s) Kansas State University

Contract Number(s) csd-1588

Cooperating Sponsor(s) None

Project Summary
Date of EXEC 1/23/69 Date Approved (PA) _____ Evaluation Date (PAR) None

Purpose Expanding cereal production requires more attention to resolving drying, storage, marketing and distribution problems. Through this project, Kansas State University marshalls the best resources available in the US to assist LDCs in overcoming problems involving the losses of food grains and food grain quality during post harvest drying, storage, handling and transport.

Description of Activity Eight KSU staff members and four outside consultants have been utilized to provide assistance and consultation on the development, review and evaluation of projects as they relate to post harvest grain handling practices in the cooperating countries. KSU has sent teams to and prepared written reports on grain storage, handling, drying, marketing and transportation problems in the following countries: (1) Jordan; (2) Korea; (3) West Pakistan; (4) Honduras; (5) Guyana; (6) Dominican Republic; (7) India; and (8) Morocco.

Accomplishments Advised Guyana on priorities for a rice storage and milling program under a development loan. Advised West Pakistan on emergency measures to store the bumper cereal crops of 1968. Conducted preliminary feasibility studies for nationwide grain storage and marketing programs in Morocco and Korea and identified areas requiring additional studies to support development loan applications. Advised Jordan on the construction and efficient utilization of metal storage silos including specifications for aeration and temperature monitoring equipment. Advised Honduras on a plan to implement grain storage operations, marketing services and a price stabilization program. Advised the Africa Bureau with respect to soundness and priorities of a grain stabilization proposal for the Entente States and Ghana. Provided a specialist to assist India in training responsible personnel in grain sanitation methods.

Future Targets Firm requests have been received from Guatemala and El Salvador for KSU to send teams of specialists to assist in resolving grain drying, storage and distribution problems and tentative requests have been received from the following countries for assistance during FY 70: Thailand, Indonesia, Laos, Pakistan, CMAORA (West Africa), Dominican Republic, Guyana and Panama. Recent achievements in increasing cereal production are expected to result in increased activity under this project.

GENERAL TECHNICAL SERVICES (On-going)

GTS-12-

PROJECT SUMMARY

Major Types of Activity: Field Support - Agricultural Inputs

Project Title: Technical Assistance in Food Grain Drying, Storage, Handling and Transportation

Contractor: Kansas State University

Contract Number: AID/csd-1588

Contractor Liaison Officer: Dr. William J. Hoover

Title: Director, Food and Feed Grain Institute

Project Number: 931-11-190-786

Present: 73-3102153

Project Duration: Started 6/30/67 Termination Date 6/29/72

Comments: This project is responding to a continuing and growing need for assistance to USAID Missions in overcoming grain marketing and storage problems.

	(000's dol.)	Obl.	Expend.	Unliq.
Budget: a) Funds obligated through FY 69	:	249	101	138
b) Funded for FY 70	:	57	150	45
c) Funds requested for FY 71	:	125	140	30
d) Estimated fund requirement FY 72:		125	130	25

TA/AGF Project Monitor: Mr. Michael Galli

Purpose: Estimates of food losses in LDCs from the field to the consumer may go as high as 50% of total production and in some cases exceed food deficits. The objective of this project is to provide technical assistance to USAIDs and LDCs in the solution of problems involving the losses of food grains and food grain quality during post-harvest handling, drying and storage.

Description of Activity: The contractor, upon request, provides the following technical services: (1) consultation and advice on (a) the identification and analysis of problems in grain handling practices, (b) the planning, organizing, development, review and evaluation of LDC projects, (c) survey, design and advice on construction of physical facilities for grain handling programs; (2) dissemination of information, knowledge and technology on all aspects of post-harvest handling, drying, transportation, marketing and storage through training programs, consultations, handbooks and advisory services.

Accomplishments: The contractor has provided short-term specialists to Guyana, Ecuador, Guatemala, Dominican Republic, Jordan, India, Morocco, Korea and the Asian Productivity Organization in Tokyo. Over 16 separate reports relating to its services to LDCs have been provided. A special training program was designed and conducted for 20 participants from Latin America.

Future Plans: The contractor will continue to respond to requests for technical assistance. Plans are underway to send specialists to Pakistan, Niger, Upper Volta, Senegal, Mali and Indonesia. Additional training courses are planned in response to Regional Bureau requests.

TA/AGF:MGalli:7/15/70; revised 8/20/70