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FICATION

A. PRIMARY

Food production and nutrition

AN10-0000-G520

B. SECONDARY

Agricultural engineering and structures--Ecuador

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3. AUTHOR(S)

Dougherty, G.M.

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(In TA 76-13)

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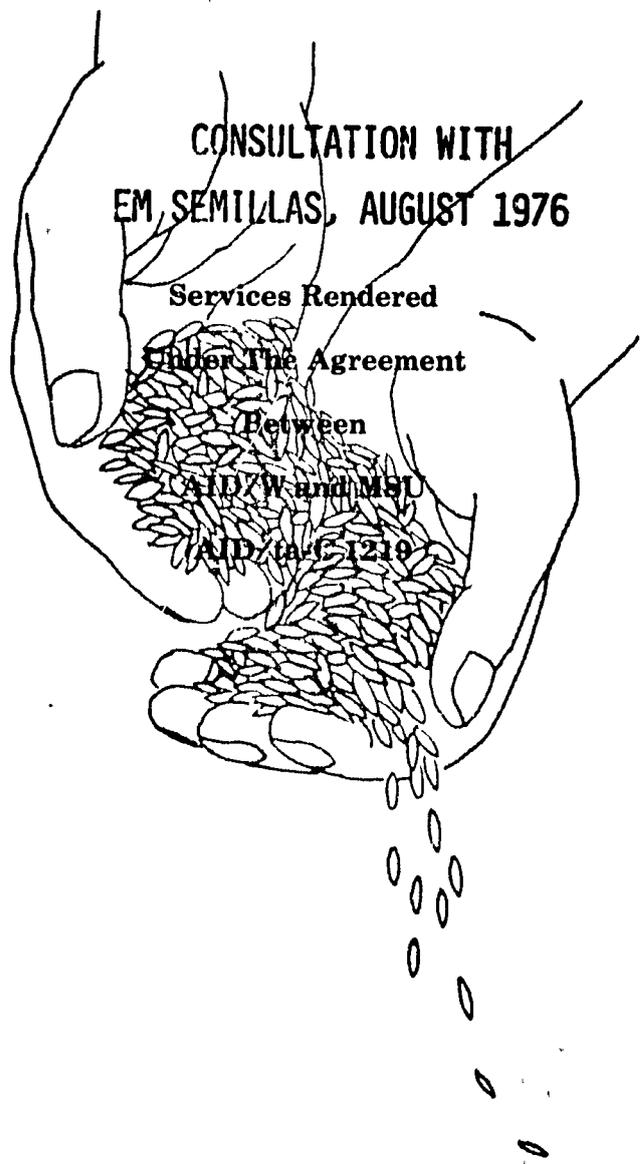
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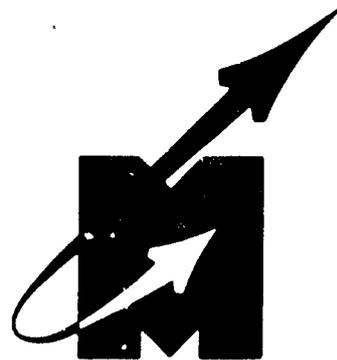
AID/ID-C-1219 GTS

Miss. State
PN-AAF-714 TA 76-13

REPORT TO USAID/ECUADOR



SEED TECHNOLOGY LABORATORY
MISSISSIPPI STATE UNIVERSITY
MISSISSIPPI STATE, MISSISSIPPI



**Report to USAID/Ecuador
and AID/W
on
Consultation with EM Semillas
August, 1976**

**Services Rendered
Under the Contract
Between
AID/W and MSU
AID/ta/C-1219**

**Seed Technology Laboratory
Mississippi State University
Mississippi State, Mississippi**

September, 1976

REPORT SUMMARY

TITLE: Consultation with EM Semillas
August, 1976

CONTRACT: AID/ta-C-1219 with Mississippi State University

CONSULTANT: G.M. Dougherty

PERIOD OF REPORT: August 3-17 , 1976

Related work, Report TA 76-10 (August, 1976)

SUMMARY

In support of seed activities (USAID Loan 518-1-033) USAID/Ecuador, in May, 1976, requested Mississippi State University to develop and prepare Layout designs and equipment specifications for a seed facility to be constructed in the coastal region of Ecuador. The material requested was prepared and transmitted to Ecuador, in draft form, in June, 1976. (Report TA 76-10, August, 1976.) In August, USAID/Ecuador requested services of an MSU consultant to review Report TA 76-10 with EM Semillas personnel. The consultant arrived in Ecuador on 4 August and departed on 17 August, 1976.

1. Report TA 76-10 was reviewed in detail with EM Semillas officials. Additional detailed drawings and the addition of two items to the equipment list were requested. The work requested was performed with the approval of USAID/Ecuador.

2. EM Semillas requested designs and equipment specifications for an additional seed facility to be constructed in Quito. This facility is to be financed through a World Bank Loan. The work requested was performed with approval of USAID/Ecuador.

3. Additional follow-up consultations will be required on the coastal region seed facility. The first consultation should be scheduled following the issuance of authority by EM Semillas to the Ecuadorian architect to proceed with the preparation of construction drawings.

REPORT TO USAID/ECUADOR
And AID/W on
Consultation with EM Semillas
August, 1976

Background

In support of seed activities in Ecuador (USAID Loan 518-1-033), USAID/Ecuador requested Mississippi State University to assist EM Semillas in development and preparation of designs and equipment specifications for a seed facility to be located in the coastal region of Ecuador. The work requested was performed, at Mississippi State University, during the period 24 May - 14 June, 1976 (Report TA 76-10).

In August, USAID/Ecuador requested a follow-up consultation in Ecuador with EM Semillas administrative personnel. Objective of the assignment was to review Report TA 76-10 with EM Semillas personnel and assist them in preparing equipment bid documents.

Current Situation

A. Coastal Region Seed Facility

Report TA 76-10 was reviewed in detail with Mr. Rodrigo Arroyo, General Manager and Mr. Jaime Flores, Technical Director, EM Semillas. From the review it was decided that some additional drawings were required and some changes be made in the equipment specifications prior to the preparation of equipment bid papers.

Changes in the equipment specifications consisted of adding two items, a forklift and a generator, and rewording the description of some equipment items to convey to suppliers that they were also respon-

sible for equipment installation. In the preparation of Report Ta 76-10 it was assumed equipment installation would be performed by a local contractor. Changes were made with the approval of USAID/Ecuador.

Drawings showing the construction details of surge bins, bin framing and equipment support frames were prepared. Drawings were also prepared to show the "flow" of the various commodities to be handled at the facility.

Facility layout drawings were also discussed with the architect being considered by EM Semillas for preparation of the construction drawings. Ing. Pareja has had experience in designing seed facility structures for INIAP, but follow-up discussions will be required after Ing. Pareja has been authorized to prepare the drawings required.

B. Quito Seed Facility

Em Semillas officials requested layout designs and equipment specifications for a small grains seed facility to be constructed in Quito, with a loan from the World Bank. In collaboration with Ing. Jaime Flores and with the approval of USAID/Ecuador, the designs and specifications requested were provided.

Itinerary and Contacts

- August 3 - departed State College, MS
- August 4 - arrived Quito. Meetings with USAID/Ecuador and EM Semillas officials to discuss assignment objectives.
- Mr. Allen Hankins, USAID/Ecuador
Mr. Rodrigo Arroyo, General Manager, EM Semillas
Mr. Jaime Flores, EM Semillas
- August 5 - (Quito) Review of Coastal Region Seed Facility designs and specifications with EM Semillas personnel.
- August 6 - Working on changes in equipment specification lists(Quito)
- August 7 - (Quito) Working on equipment specifications
- August 8 - (Quito) Sunday
- August 9 - (Quito) Preparation of drawings
- August 10- (Quito) Meeting with Ing. Pareja, Architect
- August 11- (Quito) Preparation of drawings
- August 12- (Quito) Visited sites being considered for location of Quito seed facility
- August 13- (Quito) Preparation of drawings for Quito seed facility
- August 14- (Quito) Working on equipment specifications for Quito seed facility
- August 15- (Quito) Preparation of drawings and equipment specifications
- August 16- (Quito) Preparation of drawings
- August 17- (Quito) Meeting with Mr. Allen Hankins; departed Quito for U.S., 0930 hours; arrived State College, 2300 hours.