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1990-1991



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البحوث  
الزراعية

ARAB REPUBLIC OF EGYPT  
MINISTRY OF AGRICULTURE & LAND RECLAMATION  
NATIONAL AGRICULTURAL RESEARCH PROJECT

# SEED TECHNOLOGY COMPONENT

## IMPLEMENTATION AND FINANCIAL PLAN

JULY 1990 - JUNE 1991

by

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**NATIONAL AGRICULTURAL RESEARCH PROJECT  
SEED TECHNOLOGY COMPONENT  
IMPLEMENTATION AND FINANCIAL PLAN  
FISCAL YEAR 1990-91**

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## ACRONYMS

ACC	American Cultural Center
ACDI	Agricultural Cooperatives Development International
ADP	Automatic Data Processing
A & E	Architecture and Engineering
AERDRI	Agricultural Extension and Rural Development Research Institute
AERI	Agricultural Economics Research Institute
AHRI	Animal Health Research Institute
A.I.	Artificial Insemination
AID/W	U.S. Agency for International Development, Headquarters Office in Washington, D.C.
AMRI	Agricultural Mechanization Research Institute
APAC	Agricultural Policy Analysis Component
APCP	Agricultural Production and Credit Project
ARC	Agricultural Research Center
ARENTO	Arab Republic of Egypt National Telecommunications Organization
ARRI	Animal Reproduction Research Institute
ASEG	Agricultural Statistics and Economics Group
ASIS	Agricultural Scientific Information System
AUC	American University in Cairo
B	Basic seed
C	Certified seed
CAAES	Central Administration for Agricultural Extension Services
CACT	Computer Activity Coordination Team
CAMD	Center for Agricultural Management Development
CAPL	Central Agricultural Pesticides Laboratory
CAS	Central Administration for Seed
CD	Component Director
CD/ISIS	Compact Disc Integrated Scientific Information System
CICP	Consortium for International Crop Protection
CID	Consortium for International Development
CIMMYT	International Maize and Wheat Improvement Center
CMT	California Mastitis Test
CSU	NARP Central Services Unit
CU	Communication Unit
CV	Curriculum Vitae (Resume)
D base	Data Base Information System
DEO	District Extension Officer
DG	Director General for NARP
ECO	Extension Communication Office
EDG	Extension Director General
EDICA	Egyptian Documentation and Information Center for Agriculture
EMCIP	Egyptian Major Cereals Improvement Project
ENAL	Egyptian National Agricultural Library
ERS	USDA Economic Research Service
E.T.	Embryo Transfer
Excel	A Spreadsheet Program for Macintosh Computers
F	Foundation seed
FAO	Food and Agricultural Organization, United Nations

FC	Field Crops
FY	Fiscal Year
GED	Governorate Extension Director
GOE	Government of Egypt
GTZ	German Agency for Technical Cooperation
IARC	International Agricultural Research Center
ICARDA	International Center for Agricultural Research in Dry Areas
IFB	Invitation for Bid
I & FPs	NARP Implementation and Financial Plans for a given period
IIP	Irrigation Improvement Project
ILI	International Language Institute
IMS	Irrigation and Management Systems Project
IPM	Integrated Pest Management
IR	Interdisciplinary Research
IRRI	International Rice Research Institute
IRTP	International Rice Testing Program
ISAWIP	Integrated Soil and Water Improvement Project
£E	Egyptian Pounds
LIS	Library and Information Systems
LOP	Life of Project
MIN/ISIS	Mini Integrated Scientific Information System
MIS	Management Information System
MOA	Ministry of Agriculture and Land Reclamation
MPWWR	Ministry of Public Works and Water Resources
MTG	Management Task Group
NARP	National Agricultural Research Project
NCR	National Cash Register Co.
NIC	New Initiatives Component
NMSU	New Mexico State University
NRC	National Research Center
OFR	On-Farm Research
OFT	On-Farm Trial
OI	Oceanic Institute
OICD	USDA Office of International Cooperative Development
PASA	Participating Agency Services Agreement
PBDAC	Principal Bank for Development and Agricultural Credit
PCM	Potato Crop Management Computer Program
PDRI	Plant Disease Research Institute
PI	Principal Investigator
PIL	Project Implementation Letter
PIO/T	Project Implementation Order for Training
PO	Project Officer
PPRI	Plant Protection Research Institute
PQ	Prequalification Questionnaire
PSA	Procurement Services Agent
PWWR	Public Works and Water Resources Ministry
QC	Quality Control
R	Registered seed
RC	Research Component
R/E	Research/Extension
RFP	Request for Proposal
RI	Research Institute
RRTC	Rice Research and Training Center

RSP	Research Support Program
RSS	Research Support System
SAS	Statistical Analysis Software
SCI	Social Consultants International
SDSUF	San Diego State University Foundation
SMS	Subject Matter Specialist
SOW	Scope of Work
SPSS	Statistical Programs Software Systems
TA	Technical Assistance
TC 130	A USDA course in improvement of agricultural seed
TDY	Temporary Duty Person
TOEFL	Test of English as a Foreign Language
TOT	Training of Trainers
TT	Technology Transfer
TTC	Technology Transfer Component
TTCD	Technology Transfer Component Director
TTS	Technology Transfer Specialist
U/AES	Undersecretariat for Agricultural Economics and Statistics
U.S.	United States
USA	United States of America
USAID	U.S. Agency for International Development
USD	United States Dollars
USDA	United States Department of Agriculture
USIA	U.S. Information Agency
VEW	Village Extension Agent
VSVRI	Veterinary Serum and Vaccine Research Institute

**NATIONAL AGRICULTURAL RESEARCH PROJECT  
SEED TECHNOLOGY COMPONENT  
IMPLEMENTATION AND FINANCIAL PLAN  
FISCAL YEAR 1990-91**

The 1990-91 Implementation and Financial Plan is presented as follows:

1. Narrative discussion of implementation:
2. The Output Summary, Table 1. This Table 1 covers an April-March year for Quarterly and Annual reporting; and,
3. Table 2, the Life-of-Project (LOP) Summary.

## **SEED TECHNOLOGY**

### **A. ACCOMPLISHMENTS TO DATE**

Documentation of current status, needs and constraints in the seed industry has been completed. A long-range plan has been developed, and NARP's inputs tailored to fit this plan. Activities in NARP have been selected accordingly, and detailed designs, engineering specifications, analyses, needs assessments, integrating requirements, and operating staff needs have been prepared. Procurement plans have been developed and submitted to initiate establishment of infrastructural facilities which fit into the overall long-range plan. A Training Plan was completed and training initiated.

### **B. SEED STUDY RECOMMENDATIONS AND ACTIONS**

Amendment 3, Section 5.15 to the NARP Grant Agreement expanded the project and added four new components. It also included a covenant which called for a study to be completed within one year of the date of the third amendment, of the laws and regulations governing the seed industry, to offer recommendations for modifications of the policy environment regarding seed production, processing and distribution, and to strengthen private sector participation. Based on those recommendations a plan would be submitted to USAID for implementing changes which appear appropriate.

This section includes this plan and formal policy actions to be taken some of which will be implemented in the 1990-91 financial year and others in subsequent years as follows:

1. A National Seed Workshop will be organized and held under Ministry of Agriculture and USAID sponsorship in November 1990, in order to hold a high level discussion of



objectives and means in developing a coherent long-range seed policy.

2. Based on the outcome of this workshop, the MOA will prepare an implementation plan by June 30, 1991. This plan will address long-term policy issues such as:
  - a. Plan to eliminate all government subsidies on seed.
  - b. Plan to support and promote activities for private sector seed supply.
  - c. Plan to define and develop a policy on variety testing, description, and registration of seed.
  - d. Separation between seed production and seed certification in the Government subsector by October 1991. The services of an American consulting firm will be acquired to implement this plan.
  - e. Unification and consolidation of present activities and entities related to seed production and processing in the Government sub-sector. Strengthening private sector participation of this component will be worked out for all crops except unprofitable cotton, wheat, rice and faba beans.
- OK 3. By July 30, 1991, the MOA will prepare a plan covering national requirement for seed storage including that required for breeder and foundation seed.
4. The MOA will draft an appropriate and updated seed law and regulations. This draft law will be forwarded to the higher Policy Committee by the end of 1991 and the MOA will do its utmost to have these enacted by the end of 1992.
5. By June 1992, the MOA will conduct a study concerning the possibility of establishing a Cotton Authority which could oversee the whole cotton chain of production and industry and consider the possibility for including private seed sector.

### **C. ACTIVITIES AND ESTIMATED COST**

The following provides a summary of current major aspects and estimated cost of the NARP Seed Technology Component as modified based on the recently completed seed study:

<u>Activity/Procurement Plans</u>	<u>Estimated Cost</u> <u>(\$ million)</u>	
1. The construction of two new foundation cotton seed ginning facilities at Sakha (two lines) and Sids (one line)	12.0	?
2. Seed Testing labs(6), referee lab (1), Research and genetic resources equipment and EMCIP spare parts	4.6	probably
3. Vehicle (revised to include field inspection vehicles and motorcycles)	2.5	"
4. Management information system	.5	
5. The construction of up to four new seed conditioning plants and upgrade a fifth plant (see No. 4 below)	12.5	3 plants
6. Training, including modification of current plan to expand out-of-country and in-country <u>short-term training</u> of both public and private sector personnel	3.5	As in!
7. Other aspects of the project (technical assistance, training, administration costs, and possibly storage and seed technology curriculum)	6.4	
<b>TOTAL SEED TECHNOLOGY BUDGET</b>	<b>42.0</b>	

*go together*

#### **D. PROCUREMENT AND TRAINING PLAN STATUS**

Five commodity/equipment procurement plans and one training plan have been drafted and submitted to USAID for approval. The following provides a summary of these plans as recommended in the seed study and as keyed to the above activities/procurement plans. Work is now underway to amend these plans as noted:

1. The Head of the Seed Team fully supported the construction of two new foundation cotton seed ginning facilities (Activity 1) at Sakha (two lines) and Sids (one line) and immediate approval by USAID of this plan is requested.
2. The Head of the Seed Team also supported the six testing labs, one referee lab, research and genetic resources equipment and EMCIP spare parts (No. 2) and immediate approval by USAID of this plan is requested.

3. The Head of the Seed Team also supported extra vehicles (No. 3) and recommended changes in the management information systems (No. 4). Therefore, both plans are currently being revised and will be submitted to USAID shortly for formal approval so that urgent procurement can proceed.
4. Procurement Plan No. 5 earlier included the new construction of eight seed conditioning plants. After analysis of existing and planned seed capacity and facilities in Egypt and discussion with the MOA, the Head of the Seed Team has recommended changes which are now being incorporated into this plan for formal submission to USAID as follows:

OK

- a. Construction of three new seed plants at El Mansoura, Assiut, and Qena of 7MT/hour.
- b. A two lines of the seed plant at Sakha will be upgraded with new equipment of 7 MT/hour each.
- c. If the proposed 20 mt/hour IFAD plant at El-Menia, and alternatively if the GTZ plant at either Southern or Northern Tahrir are cancelled, then an additional line (7 metric ton capacity) will be requested for USAID funding.

As agreed with USAID, final decision regarding the construction of the seed processing plants will be made after the completion of NARP evaluation which is anticipated to take place during August-September, 1990.

5. A training plan (No. 6 above) has been approved by USAID but will now be amended soon to incorporate the recommendations of the seed team and a special study by one member titled "Seed Technology Training Component - A Study and Recommendations". Extensive in-country training is now planned along with modifications in the out-of-country training plan.

## E. CONSTRUCTION PROCEDURES

The MOA has already requested, and USAID is proceeding to contract directly for an architecture and engineering (A&E) firm to design, prepare technical specifications, evaluate bid documents, and to supervise construction of the cotton ginning and seed conditioning facilities. It is further requested that USAID directly contract with a firm or firms to construct and equip these facilities.

## **F. OTHER FY 1990-91 IMPLEMENTATION ACTIVITIES**

Activities or planned outputs are summarized in Table 1. The relationship of these activities to the LOP Plan is given in Table 2. Table 3 provides the Financial Plan. Other aspects of Technical Assistance and operations follow.

### **1. Technical Assistance**

Long-term technical assistance will be continued as in previous project periods, with one long term consultant and short term consultants through the Consortium for International Development (CID) contract. CID will focus on various procurement plans and actions related to them (amendment of plans, completing technical specifications, facilitating procurement through the Procurement Services Agent (PSA), and assisting the government in the receipt and installation of equipment, as needed). CID will also assist the Government in amending the overseas training plan, as recommended by the seed study team, and to develop a detailed in-country training plan and then help conduct this large training effort. Furthermore, during the year CID will: a) prepare quarterly and annual reports on the entire seed effort; b) modify the IFP as needed and monitor to insure plan implementation; c) prepare the terms of reference and begin conducting a seed storage study; d) as well as help implement various aspects of the National Seed Study including assistance to conduct the National Seed seminar.

It is now planned that another consulting firm with extensive private sector involvement in the seed industry of other countries will be contracted to provide assistance to help the Government and the private sector implement major aspects and recommendations of the Seed Study.

### **2. Operations**

A local currency operating budget will be submitted to USAID soon for approval not only to maintain the Seed Technology Component Administrative Office, but to support increased operations related to the public sector aspects of the seed supply components being improved.

TABLE 1:

**1990-91 IMPLEMENTATION PLAN  
SEED TECHNOLOGY OUTPUT SUMMARY**

PROJECT TITLE: NARP  
PROJECT NUMBER: 293-0182  
PLAN YEAR: 1990-91

Objectives/Activities/Outputs (1)	Units (2)	Annual Target (3)	Responsible Parties (4)	FY 1990-91 by Quarters								FY Total		Remarks (15)	
				1		2		3		4		Cumulative			
				Planned (5)	Status (6)	Planned (7)	Status (8)	Planned (9)	Status (10)	Planned (11)	Status (12)	Planned (13)	Status (14)		
<b>SEED TECHNOLOGY</b>															
<b>1. PLANNING AND MANAGEMENT ACTIVITIES</b>															
<b>A. Contract with firm to plan and help implement seed study recommendation and actions</b>															
1) Arrange observation trip	Trip	1	CAS/USAID	1-Aug.										1	
2) Conduct National Seed Workshop	Workshop	1	Con/GOE			Oct. Nov.								1	
3) Draft long-range seed policy and plan	Plan	1	Con/CAS/Min					March						1	
4) Draft plan for CAS to divest seed production	Plan	1	Con/GOE											1	
5) Prepare plan to combine processing (CAS/EAO/ARC)	Plan	1	Con/GOE							Apr.				1	GOE will implement plan by Oct., 1991 GOE will implement by Oct., 1991 MOA sends to higher policy committee by Oct., 1991
6) Initial draft of Seed Legislation	Draft Law	1	GOE/Con							Apr. May				1	
7) Conduct survey/study of private seed sector	Study	1	Con							June				1	
<b>B. Seed Industry Coordination/Infrastructure/Organization</b>															
<b>1) 25-year Seed Industry Development Plan studied, modified</b>															
	Plan	1	CAS							June				1	
<b>2) Collaborative with international agencies</b>															
<b>C. Seed Technology Component Administration</b>															
<b>1) Admin./operating funds/requested/approved</b>															
	Budget	1	NARP, CAS	Aug. 3		1		1		1				1	
<b>2) Staff working in Admin. Office</b>															
	Staff	4	CAS			3+1		4c*		4c				4c	
<b>D. Project Implementation</b>															
<b>1) 1991-92 annual IFP submitted</b>															
	Annual IFP Report	1	CAS, CID						May					1	
<b>2) Annual &amp; quarterly reports submitted</b>															
	Report	4		Sept.		Dec.			Mar.		June			4	
<b>E. Improving Technical Operations and Management</b>															
<b>1) Transport for Seed and Supervisory Personnel</b>															
a) Vehicle procurement plan revised/approved	Plan	1	NARP, USAID	July										1	
b) Vehicle specs./needs to PSA	Specs.		CAS			Sep/Oct. 4								1	
c) PSA issues tenders	Tender	1	PSA					Jan.						1	
d) Vehicles delivered, inspected, conditioned, accepted	Accept. Doc.	1								June				1	
<b>2) Program Management Data</b>															
<b>a) Computer equipment procurement plan approved</b>															
	Plan	1	NARP, USAID	Aug.										1	
<b>b) Computer specs./needs to PSA</b>															
	Specs.	1	CAS			Nov.								1	

\* c mean continues through quarter.

TABLE 1:

**1990-91 IMPLEMENTATION PLAN  
SEED TECHNOLOGY OUTPUT SUMMARY**

PROJECT TITLE: NARP  
PROJECT NUMBER: 263-0152  
PLAN YEAR: 1990-91

Objectives/Activities/Outputs (1)	Units (2)	Annual Target (3)	Responsible Parties (4)	FY 1990-91 by Quarters								FY Total Cumulative		Remarks (15)
				1		2		3		4		Planned (13)	Status (14)	
				Planned (5)	Status (6)	Planned (7)	Status (8)	Planned (9)	Status (10)	Planned (11)	Status (12)			
c) PSA issues tenders	Tender	1	PSA					Feb.				1		
d) Staff training in use of computers begun	Training Class	6	-								6	6c		
<b>F. Training</b>														
<b>1) Assessing Needs, Planning and Preparing for Training</b>														
a) Staff screened/tested in English language	Person	240	CAS	60		60		60			60	240		
b) Staff attending English classes	-	160	-	40		60		60			60	160		
<b>2) Long-Term Academic Training</b>														
a) Applications for 1990 academic training submitted	Person	40	-	20				20				40		
b) Staff sent for Master's Degree in Seed Technology	-	15	-	10				5				15		
c) Staff sent for PhD in Seed Technology	-	3	-	2				1				3		
3) Training plan approved	1	1	CID/CAS/AID	Aug.										
<b>4) Short-Term Intensive Specialized Training</b>														
a) Applications sent for 1990 TC 130-3 Seed Improvement Course	-	5	-					5				5		
b) Staff in TC 130-3 Seed Improvement Course	-	5	-	5							5	5		
c) Program of academic non-degree training developed	-	1	-	1								1		
d) Staff in non-degree academic training	-	15	-	15								15		
<b>5) In-Country Technical Training and Support</b>														
a) "Roguing Seed Fields" manuscript edited	Manuscript	1	CID/CAS/AID			Dec.						1		
b) "Roguing Seed Fields" manuscript published	Publication	1	NARP, EO					Mar.				1		
<b>2. TECHNICAL SUPPORT ACTIVITIES</b>														
<b>A) Seed Field Quality Control</b>														
<b>1) Field Inspection</b>														
a) "Procedures for inspecting Wheat Seed Fields" edited	Manuscript	1	CID/CAS					Jan.				1		
b) "Procedures for inspecting Wheat Seed Fields" published	Publication	1	NARP/EO					Apr.			1	1		
c) Wheat field inspection standards applied in inspection	Standard	4	CAS					4			4	4		
d) Standardized field inspection procedures use begins	Operations	1	-					Apr.			1	1		
e) Wheat variety description format used for describing varieties	Format	1	ARC,CAS	Sept.		c		c			1c	1		

TABLE 1:

**1990-91 IMPLEMENTATION PLAN  
SEED TECHNOLOGY OUTPUT SUMMARY**

PROJECT TITLE: NARP  
PROJECT NUMBER: 263-0152  
PLAN YEAR: 1990-91

Objectives/Activities/Outputs (1)	Units (2)	Annual Target (3)	Responsible Parties (4)	FY 1990-91 by Quarters								FY Total		Remarks (15)	
				1		2		3		4		Cumulative			
				Planned (5)	Status (6)	Planned (7)	Status (8)	Planned (9)	Status (10)	Planned (11)	Status (12)	Planned (13)	Status (14)		
B) Improving Need Oriented Seed Research															
1) Research equipment specs./needs to PSA	Specs.	1	CAS	Aug.		Oct.								1	
2) PSA issues tenders	Tender	1	PSA			Dec.								1	
3) Equipment delivered, inspected, conditioned, accepted	Accept. Doc.	1	-							June				1	
C) Improving Genetic Resources Collection & Maintenance															
1) Genetic resources equipment specs./needs to PSA	Specs.	1	CAS	Aug.										1	
2) PSA issues tenders	Tender	1	PSA			Dec.								1	
3) Equipment delivered, inspected, conditioned, accepted	Accept. Doc.	1	-							June				1	
3 SUPPORT/FACILITIES IMPROVED															
A) Seed Lot Quality Control															
1) Testing equipment specs. to A & E firm, included in installation	Specs.	3	CAS	3										3	
2) A & E firm issues tender/bid documents for testing equipment	Tender	1	A & E firm					Feb.						1	
3) Supply contract awarded for testing lab equipment	Contract	1	-					Feb.						1	
B) Seed Conditioning															
1) See conditioning improved plan revised/approved	Plan	1	CID/CAS/AID	Aug.										1	
2) National conditioning strategy followed in planning facilities	Operations	1	-							1				1	
3) A & E firm selected, contracted	Contract	1	USAID, NARP	Sept.										1	
4) A & E firm prepares final plans, plans approved	Plans	1	A & E firm			Mar.								1	
5) A & E firm issues tenders for construction/supply	Tender	1	A & E firm			4								4	
6) Construction/supply contracts awarded	Contracts	1	-							1				1	
7) Construction carried out under close supervision of A & E firm	Operations	1	-							1				1	
C) Cottonseed															
1) A & E firm selected, contracted	Contract	1	USAID,CAS,NARP	Sept.										1	
2) A & E firm prepares final plans, plans approved	Plans	2	A & E firm			2				2				2	
3) A & E firm issues tenders for construction/supply	Tender	2	-											2	
4) Construction/supply contracts awarded	Contracts	2	-							2				2	
5) Construction in process, under close supervision of A & E firm	Operations	0	A & E firm								June				
6) National strategy followed to plan obtaining needed facilities	Plan	1	-												
7) Plans prepared for next phase of cottonseed conditioning facilities	Plan	1	-												

TABLE 1:

**1990-91 IMPLEMENTATION PLAN  
SEED TECHNOLOGY OUTPUT SUMMARY**

PROJECT TITLE: NARP  
PROJECT NUMBER: 283-0152  
PLAN YEAR: 1990-91

Objectives/Activities/Outputs (1)	Units (2)	Annual Target (3)	Responsible Parties (4)	FY 1990-91 by Quarters								FY Total		Remarks (15)	
				1		2		3		4		Cumulative			
				Planned (5)	Status (6)	Planned (7)	Status (8)	Planned (9)	Status (10)	Planned (11)	Status (12)	Planned (13)	Status (14)		
D) Improving Present Conditioning															
1) EMCIP spare parts specs/needs to PSA	Specs.	1	CAS			Sept.							1		
2) PSA issues tenders	Tender	1	PSA										1		
3) Parts delivered, inspected, conditioned, accepted	Accept. Doc.	1	-					Dec.			June		1		
<b>4. PUBLIC/PRIVATE SECTOR LINKAGES &amp; PARTICIPATION</b>															
A) Information Base															
1) Farmer seed needs/use manuscript edited	Manuscript	1	CID/CAS	Sept.									1		
2) Farmer seed needs/use manuscript published	Publication	1	NARP										1		
3) Climate for seed production manuscript edited	Manuscript	1	CID/CAS										1		
4) Climate for seed production manuscript published	Publication	1	NARP			Dec.					June		1		
5) Seed industry infrastructure status manuscript edited	Manuscript	1	CID/CAS										1		
6) Seed industry infrastructure status manuscript published	Publication	1	NARP			Dec.					June		1		
7) Seed Industry Directory manuscript completed	Manuscript	1	CID/CAS					1			June		1		
8) Seed Industry Directory submitted	-	1	-					1					1		
9) Seed Industry Directory edited	-	1	-					1			Jan.		1		
10) Seed Industry Directory published	Publication	1	NARP, EO					1			Jan.		1		
B) Supporting Services															
1) Technical publications available to private sector	Publication	2	CAS, NARP, ARC								2		2		
2) Industry-development publications available to private sector	-	4	-										4		
3) Supporting policy established on testing services	Policy	1	CID/CAS, MOA								4		4		
4) Seed testing services available to private sector	Operations	1	CAS	Sept.		1c		1c			May		1		
5) Research conducted assists private sector problem-solving	-	Continuous	ARC, NARP, CAS			1c		1c			1c		1		Contin.
6) Genetic materials made available to private sector breeders	-	Continuous	ARC			1c		1c			1c		1		Contin.
7) Foundation seed available to private sector seed firms	Policy	1	ARC, CAS, MOA					1			1c		1		
8) Assistance continues to private sector on studies, techn. matters.	Operations	1	CAS	Sept.		1c		1c			1c		1		
9) Private sector allowed to hire public-program staff	Policy	1	MOA, CAS, ARC								May		1		
C) Developing Marketing/Distribution Systems															
1) Further efforts to provide credit to support private marketing	Set of Recomm.	1	CAS, PBDAC USAID			Sept.		1c			1c		1		

TABLE 2:

**1990-91 IMPLEMENTATION PLAN  
SEED LOP SUMMARY**

PROJECT TITLE: NARP  
PROJECT NUMBER: 263-0152  
PROJECT AGREEMENT DATE: Sept. 12, 1985  
PACD: Sept. 30, 1994  
IMPLEMENTING AGENCY(IES): MOA, ARC

OBJECTIVES/ACTIVITIES/OUTPUTS (1)	UNITS (2)	LOP TARGET (3)	PROGRESS TO DATE (4)	PRECEEDING YEAR TARGET (5)	PRECEEDING YEAR PROGRESS (6)	NEXT YEAR TARGET (7)	FUTURE YEARS TARGET (8)	DELAYS/PROBLEMS (PROPOSED ACTIONS) (9)	COST/TIME IMPLICATIONS OF DELAYS (10)
<b>SEED TECHNOLOGY COMPONENT</b>									
<b>I. ENHANCING STAFF COMPETENCE</b>									
A. PhD training in Seed Technology	Trainees	3	0	0	0	1	2	English language	
B. Master's degree training on Seed Technology	"	60	6	15	6	15	39		
C. Non-degree U.S. university training in Seed Technology	"	120	0	0	0	15	106		
D. Short-term USDA TC 130-3 Seed Technology training	"	17	7	5	7	5	5		
E. Collaborative in-country short-term training courses	"	15	4	2	2	3	8		
F. Seed industry publications	Publications	8	0	0	0	4	4		
G. Technical Seed Technology publications	"	15	0	0	0	3	12		
<b>II. SUPPORT/FACILITIES IMPROVED</b>									
A. Long-range (25-year) development plan	Plan	1	0	0	0	1	0		
B. CAS organization improved	Yes/No	1	0	0	0	1	0		
C. Seed field roguing improved	"	1	0	0	0	1	0		
D. Seed field inspection implemented	"	1	0	0	0	1	0		
E. Grower/field supervision improved	"	1	0	0	0	1	0		
F. New seed testing labs established, equipped	Number	3	0	0	0	3	0		
G. Existing testing labs re-equipped	"	3	0	0	0	3	0		
H. Variety descriptions/format improved, in use	Yes/No	1	0	0	0	1	0		
I. New field crop conditioning plants, private-sector suitable	Number	8	0	0	0	0	8		
J. In-plant quality control established	"	8	0	0	0	0	8		
K. EMCIP conditioning plant spare part sets	Sets	4	0	0	0	4	0		
L. Reference testing/standardization lab	Lab	1	0	0	0	1	0		
M. Genetic resources seed-related equipment	Sets	1	0	0	0	1	0		
N. Seed transport improved	Yes/No	1	0	0	0	1	0		
O. Transport for supervisory personnel improved	"	1	0	0	0	1	0		
P. In-service conditioning operations staff training/guidance	Operations	3 years	0	0	0	0	3		
Q. In-service conditioning maintenance staff training/guidance	"	3 years	0	0	0	0	3		
R. In-service testing lab staff training	"	3 years	0	0	0	0	3		
S. In-service improved testing procedures staff training	"	6	0	0	0	0	6		

TABLE 2:

1990-91 IMPLEMENTATION PLAN  
SEED LOP SUMMARY

PROJECT TITLE: NARP  
PROJECT NUMBER: 263-0152  
PROJECT AGREEMENT DATE: Sept. 12, 1985  
PACD: Sept. 30, 1994  
IMPLEMENTING AGENCY(IES): MOA, ARC

OBJECTIVES/ACTIVITIES/OUTPUTS (1)	UNITS (2)	LOP TARGET (3)	PROGRESS TO DATE (4)	PRECEEDING YEAR TARGET (5)	PRECEEDING YEAR PROGRESS (6)	NEXT YEAR TARGET (7)	FUTURE YEARS TARGET (8)	DELAYS/PROBLEMS (PROPOSED ACTIONS) (9)	COST/TIME IMPLICATIONS OF DELAYS (10)
T. In-service in-plant QC staff training/guidance	Years	3	0	0	0	0	3		
U. Improved Foundation cotton seed plants	Plants	2	0	0	0	0	2		
III. IMPROVING PUBLIC-PRIVATE SECTOR LINKAGES									
A. National seed symposia/meetings	Meetings	3	0	0	0	1	2		
B. Seed use/needs/supply status study	Study	1	0	1	1	0	0		
C. Administrative separation of production/quality control	Yes/No	1	0	0	0	1	0		
D. Improved public/private sector linkage	???	1	0	0	0	1*	1		
E. Genetic resources supply policy/strategy/plan	Plan	1	0	0	0	1*	1		
IV. ENCOURAGING PRIVATE SECTOR PARTICIPATION									
A. Seed Conditioning policy/strategy/plan	Plan	1	0	0	0	1	1		
B. Seed testing services policy/strategy/plan	-	1	0	0	0	1	1		
C. Referee testing/standardization strategy/plan	-	1	0	0	0	1	1		
D. Industry-oriented seed research equipment	Yes/No	1	0	0	0	1	1		
E. Seed research needs studied, prioritized	Study	1	0	1	1	0	0		
F. Seed sampling/testing services/supervision expanded	Yes/No	1	0	0	0	1	1		
G. Seed storage/distribution needs study	Study	1	0	0	0	0	1		
H. Seed storage/distribution policy/strategy/plan	Plan	1	0	0	0	0	1		
I. Foundation seed supply policy/strategy/plan	-	1	0	0	0	1	1		

\* Represents progress on a large program

TABLE 3:

1990-91 FINANCIAL PLAN

\$(000)

"SEED TECHNOLOGY COMPONENT"

COUNTERPART (P.E.)

1. ESTIMATED LOP CONTRIB.: CASH \_\_\_\_\_ INKIND \_\_\_\_\_
2. CUM. LOP CASH CONTRIB. (THRU MO/YR \_\_\_\_\_): \_\_\_\_\_
3. REQ. CASH CONTRIB. FOR PLAN YEAR: \_\_\_\_\_ 5,061
4. VERIFIED COUNTERPART CASH CONTRIB.: \_\_\_\_\_
5. SHORTFALL (3 MINUS 4): \_\_\_\_\_

BUDGET ELEMENTS (1)	PRIOR YEARS (AID)		CURRENT YEAR (AID)								(K)	(L)
	CUMULATIVE EARMARKS	ACCRUED EXPENDITURES	FIRST QUARTER		SECOND QUARTER		THIRD QUARTER		FOURTH QUARTER		(AID) ESTIMATED COST TO COMPLETE	(AID) REVISED ELEMENT BUDGET (A+C+E+G+I+K)
	(A) THROUGH 6/90	(B) THROUGH 6/90	(C) NEW EARMARKS	(D) EXPENDITURES PROJECTIONS	(E) NEW EARMARKS	(F) EXPENDITURES PROJECTIONS	(G) NEW EARMARKS	(H) EXPENDITURES PROJECTIONS	(I) NEW EARMARKS	(J) EXPENDITURES PROJECTIONS		
TECHNICAL ASSISTANCE	1,000	50	0	70	0	70	0	70	0	70		1,000
TRAINING	747	140	0	75	0	60	500	60	80	140		1,327
COMMODITIES	6,000	0	3,000	0	0	250	2,000	250	2,000	500		13,000
SERVICES	436	281	400	100	0	100	0	100	0	100		836
TOTAL ESTIMATED EXPENDITURES	8,183	471	3,400	245	0	480	2,500	480	2,080	810	0	16,163

## PUBLICATIONS

PUBLICATION TITLE	NUMBER
- <b>Quarterly Report</b> (November - December, 1986)-----	1
- <b>Quarterly Report</b> (January - March, 1987)-----	2
- <b>Implementation Workshop - Proceedings</b> February 9-17, 1987-----	3
- <b>Quarterly Report</b> (April - June, 1987)-----	4
- <b>Life of Project Plan</b> (September, 1987)-----	5
- <b>Implementation and Financial Plan, Fiscal Year 1987-1988</b> (September, 1987)-----	6
- <b>Manual for Grant Research Under NARP</b> (October, 1987)-----	7
- <b>Manpower Development &amp; Training Plan</b> (November, 1987)-----	8
- <b>Quarterly Report</b> (July - September, 1987)-----	9
- <b>Annual Report - 1987</b> (May, 1988)-----	10
- <b>Implementation &amp; Financial Plan FY 1988-1989</b> (August, 1988)-----	11
- <b>List of Approved Proposals Under the Research Support System</b> (December, 1988)-----	12
- <b>Work Plan for the NARP Research Grants Program</b> <b>Part A: For Non-ARC Agricultural Research Institution in Egypt</b> (December, 1988)-----	13
- <b>Procedures for Grant Research Under NARP At Non-ARC</b> <b>Agricultural Research Institutions in Egypt</b> (December, 1988)-----	14
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- <b>Quarterly Report</b> (October - December, 1988)-----	16
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- <b>Quarterly Report</b> (January - March, 1989)-----	18

- <b>NARP Annual Report FY 1988-89 and Implementation and Financial Plan for the Research Component FY 1989-90</b> (August, 1989)-----	19
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- <b>Technology Transfer Component, Life of Project Plan</b> (August, 1989)-----	21
- <b>Quarterly Report</b> (July - September, 1989)-----	22
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- <b>Quarterly Report</b> (October - December, 1989)-----	25
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- <b>Research Component - Out-of-Country Training Amendment</b> (July, 1990)-----	29
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- <b>Technology Transfer Component - In-Country Annual Training Plan - Fiscal Year 1990-1991</b> (September, 1990)-----	31
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