

PE-ABL-914

102 9663

Work Plan for Research Grants

December 1988

Publication # 13

NATIONAL AGRICULTURAL RESEARCH PROJECT

Work Plan for Research Grants



National Agricultural Research Project
المشروع القومي للأبحاث الزراعية



November 1990

PD-ABL-914

ARAB REPUBLIC OF EGYPT
MINISTRY OF AGRICULTURE
AND LAND RECLAMATION
AGRICULTURAL RESEARCH CENTER

NATIONAL AGRICULTURAL RESEARCH PROJECT
(NARP)

USAID PROJECT 263-0152

**Work Plan For The NARP
Research Grants Program**

**PART A: For Non-ARC Agricultural
Research Institutions In Egypt**

by

Dr. A Momtaz and R. Foote

NARP Publication No. 13

Published: December 1988

WORK PLAN FOR THE NARP RESEARCH GRANTS PROGRAM

PART A: FOR NON-ARC AGRICULTURAL RESEARCH INSTITUTIONS IN EGYPT

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PREFACE

This Work Plan was prepared by the Research Grants Program Working Group in consultation with selected members of the C/D/NARP TA team and the NARP Executive Office. Part A of the Plan relates primarily to the NARP budget line item g under Services entitled "Research Grants Program". Brief comments are given with respect to the following items in the same budget section:

- j. International Centers
- k. US. University
- l. Private Sector

Work plans will be provided for the latter when funding and detailed procedures are finalized.

The manual entitled *Procedures for Grant Research Under NARP At Non-ARC Agricultural Research Institutions in Egypt*, NARP Publication No. 14, should be considered as an integral part of the Work Plan. It provides approved guidelines for management of research proposals funded under the Research Grants Program.

Both the Work Plan and the Procedures Manual were approved by USAID in October 1988.

Dr. Ahmed Momtaz
NARP Director General

WORK PLAN FOR THE NARP RESEARCH GRANTS PROGRAM

PART A: FOR NON-ARC AGRICULTURAL RESEARCH INSTITUTIONS IN EGYPT

Summary

The National Agricultural Research Project (NARP) is an outgrowth of prior MOA/USA Government activities initiated over the past decade. These included PL 490 research and 13 USAID projects. Of the latter, those that relate most closely to NARP are the Egyptian Major Cereals Improvement Project (EMCIP), Agricultural Mechanization, Plice Research and Training, and horticultural aspects of Agricultural Development Systems (ADS). The University Grants Program under EMCIP provided the first formal linkage between ARC and the Egyptian regional universities. Despite limitations on the number of projects covered under EMCIP and the fact that active research was limited to 2.5 years, the contributions were quite constructive in the development of specified sectors of Egyptian agriculture. NARP is much larger and broader in scope than any previous MOA/USAID Project, and the NARP Research Grants Program also is much larger and broader in scope than was that for EMCIP. Because of this, many new procedures and concepts were required to adequately manage the Research Grants Program.

Initial procedures for the NARP Research Grants Program were presented in a report dated April 1986 prepared by an Ad Hoc NARP Committee. These procedures were substantially modified during 1987 and early 1988, based on activities of the NARP Research Grants Program Working Group and the TA Research Studies Coordinator. A substantial input by H.E. the Deputy Prime Minister and Minister of Agriculture and Land Reclamation took place from the initial stage of the NARP Project. Further modifications in procedures were made in July 1988.

This Work Plan begins with a review of research activities and strategies related to agriculture by the Ministry of Agriculture and Land Reclamation, the 14 Faculties of Agriculture and four Faculties of Veterinary Medicine at the 12 Regional Universities in Egypt and other agricultural research institutions in Egypt. It then presents the evolution of activities under the NARP Research Grants Program from January 1987 through early August 1988. Planned activities over the remainder of the program through September 1993 are then outlined. Details are provided in a series of Annexes.

Background

Implementation of NARP

The National Agricultural Research Project (NARP), USAID Project No. 263-0152, was established in September 1985. This is a cooperative agreement between the Government of Egypt's Ministry of Agriculture and Land Reclamation (GOE/MOA) and the United States Agency for International Development (USAID). NARP will assist in improving the capability of the Egyptian agricultural research community to generate and transfer improved agricultural technologies to Egyptian farmers.

The effective implementation and execution of NARP will require changes in operational thrust of the agricultural research system especially in the research management, technical research execution, and research technology transfer to the farmer's level. Major aspects of NARP relate to the Agricultural Research Center (ARC), the principal research organization of the Ministry of Agriculture and Land Reclamation. The role of the Research Grants Program is to serve the agricultural research community outside of the ARC and to promote collaboration of all agricultural research institutions and the private sector in Egypt (including ARC) with Title 12 Universities in the USA and International Agricultural Research Centers (IARCs). Both aspects will be carried out mainly through grants to these various entities to promote research that supplements that conducted by ARC.

The phase of the Research Grants Program covered by this document mainly relates to non-ARC, non-private sector agricultural research institutions in Egypt, including the 14 Faculties of Agriculture, the four Faculties of Veterinary Medicine and certain other Faculties at the regional universities. In all, 32 Egyptian institutions submitted research topics for consideration. Funding is proposed under a new NARP Project Paper being prepared currently to cover other aspects of the Research Grants Program, including research performed by the private sector in Egypt. These activities likely will be implemented in 1988.

Agriculture and Technology In Egypt

Egypt is facing many challenges in agriculture. Food and feed production needs to be increased to minimize the gap between consumption and production. The consumption of major food commodities significantly exceeds domestic supply due to increased per capita consumption as well as a rapid increase in population. Although Egypt has good natural resources - fertile land, a currently adequate supply of water and a stable climate, the productive land area is limited. Part of the solution in meeting the future food requirements lies in increasing crop yields and changing cropping patterns to intensify the use of land and labor. Previous research projects in Egypt have shown that yields can be significantly increased when new technological practices are implemented on farmer's fields. In those projects, ARC staff conducted basic research, as well as research verification and demonstration trials on farmers' fields, in order to test and transfer new agronomic practices and technologies.

Agricultural programs which are concerned with developing means to increase food and feed production must:

- Develop new basic research
- Explore emerging technologies
- Adapt technologies developed elsewhere for use in Egypt
- Utilize suitable technology that has been developed in Egypt but not implemented on farmer's fields.

Improvement is needed in the following areas among others:

- Nitrogen fixation by plants
- Genetic engineering for plants and animals
- Agrometeorology
- Propagation of plants by tissue culture
- Innovative procedures in animal and plant production
- Integrated pest management
- Advanced chemical analytical procedures
- Protected plant culture
- Aquaculture.

Methodology must be developed which will utilize computers in staff and research management systems and in integrated analyses of data sets for modeling systems.

Strategies of the Ministry of Agriculture and the ARC

The Ministry of Agriculture and Land Reclamation has developed strategies for improving agricultural conditions in Egypt. Policies and program strategies must be recognized when trying to institute improvements in any system. A review of strategies, priorities, methods and outputs from major documents¹ is briefly presented in four broad categories as follows:

Policy:- The issue of policy is important and very complex. The report by H.E. Dr. Wally states that maximization of net agricultural national product requires

- 1 a) Strategy of Agricultural Development in the Eighties, a report by Deputy Prime Minister and Minister of Agriculture and Land Reclamation, H.E. Dr. Youssef Wally, March 1982.
- b) Strategies for Accelerating Agricultural Development: A report of the Presidential Mission on Agricultural Development in Egypt, July 1982.
- c) Agricultural Research Center, Five-Year Plan (1982/83 - 1986/87), Arab Republic of Egypt, Ministry of Agriculture, Agricultural Research Center.

directing agricultural resources toward production that conforms with the principles of specialization and comparative advantage. It emphasizes policies which increase the productivity of land, labor, capital and organizational aspects of production. This report also states that future agricultural policy should adjust food priorities as related to food security and adjust agricultural development policy in a complementary manner. Priority should be assigned to food commodities required by the majority of the population, especially those consumed by low income groups: for example cereals and pulses will have priority over meat, and dairy products will have a higher priority than red meat.

Future policies must emphasize the needs of the rural society and the interests of small farmers. Gradual relaxation is needed in the area of government price and production controls.

Institutions and Organizations:- Many institutions and organizations relate to the agricultural system and have an impact on it. Large numbers of government staff are working in the agricultural system. All facets need to be better integrated and involved in planning and in executing the program. The Research Grants Program will play a major role in bringing about improved integration within the overall research community.

Resources:- The amount of arable land is a key constraint to increased agricultural production, conservation and maintenance. This constraint requires an integrated set of programs centered around rational uses of irrigation water and fertilizer, pest management, soil management and appropriate cropping patterns.

In mechanization, appropriate machinery, equipment and tools are needed to increase the efficiency of both human and animal energy in a manner consistent with Egypt's socioeconomic conditions. Research centers and engineering companies will be encouraged to design and produce machines that represent appropriate mechanical technology for Egypt.

Human resources need to be upgraded. Egyptian agricultural officials and research staff need training to enhance their planning, management and policy implementation skills, while research staff also need training which will promote technological advances. Practical training programs should improve the development of professional and personal capabilities and skills of the agricultural labor force, using resources of the MOA and other ministries. More attention should be given to the needs and training of the rural family as a means of improving production.

Technology:- Agricultural programs which are concerned with developing means to increase food and feed production must develop new basic research, explore emerging technologies, adapt technologies developed elsewhere for use in Egypt, and utilize suitable technology that has been developed in Egypt but not implemented on farmers' fields. More emphasis will be directed toward applied research in ARC and through the Research Grants Program.

Technological constraints in Egyptian agriculture are greater and more sophisticated than those operating in most other developing countries. Plans will be made to adopt a long term policy for transfer of biological technology on a broad scale for field crops, horticultural crops and livestock.

Economic and statistical studies are needed to determine the profitability of producing individual agricultural products for domestic and export purposes, with special studies on new or proposed technologies, credit and marketing.

The Research Grants Program should have a major impact on all of the areas referred to above, particularly those relating to improved use of resources and modern technology.

Relations Between ARC and Other Research Institutions

Scientific research relating to Egyptian agriculture has experienced significant support, particularly in the past 10 years during which several projects received substantial international, bilateral and local financing. Over 100 research projects were funded over this period, about half of which were assigned to ARC and the rest to a few universities and other research institutions. Although some of these activities produced valuable results, the impact of most projects on national agricultural production was not clearly felt mainly because their link to the plans and programs of the Ministry of Agriculture (MOA) was weak. Before 1970 the MOA was the only Governmental authority responsible for agricultural development. The ARC, through its Institutes and Research Stations, conducted research programs in various fields in this area. Over the same period, the 14 Faculties of Agriculture and four Faculties of Veterinary Medicine affiliated with the 12 Egyptian Regional Universities conducted research in their respective fields of agriculture in addition to their undergraduate and graduate programs. But there was little linkage or coordination between the Universities and ARC activities. The MOA/USAID Egyptian Major Cereals Improvement Project (EMCIP) provided the first formal tie between the ARC and the Regional Universities in the design, implementation and evaluation of agricultural research projects. The significant results that were achieved under EMCIP will have an impact on national agricultural development. Moreover, some of this work has attracted the attention of other research institutions in the USA.

The successful achievements of the University Grants Program within EMCIP have been used to provide a constructive model and guide to structuring and implementing the NARP Research Grants Program in-country activities with Egyptian universities and other governmental non-ARC agricultural research institutions.

Pre-NARP Status of Research

Research under USAID Projects prior to 1987 concentrated on cereals, forage crops, legumes and some horticultural crops. Intensified research is needed on other economic crops, livestock, poultry, aquaculture, and mechanization, with increased emphasis for all of these on socio-economic aspects and on-farm trials. Work to date on the latter items has been fragmented. Much of the

research to date was done without an interdisciplinary team approach or adequate correlation with ARC activities.

University programs on basic research should lead to adaptive research with the private sector. Non-commodity research, such as that on cropping systems, integrated pest management, soil/water relations, animal husbandry and fisheries, is not distributed equally among universities and other research groups. One aim of the NARP Research Grants Program is to obtain more uniform coverage and increased cooperation among these research groups. Increased emphasis will be placed on research that relates to newly-irrigated lands.

EMCIP, ADS and the Rice Project have provided a good start. NARP needs to extend this research to additional crops, livestock, fisheries and intensification of horticultural crops under plastic greenhouses, with more emphasis on integrated interdisciplinary research and on-farm trials that will lead to adaptive research of direct value to farmers.

Strategy for the Research Grants Program

Increased coordination is needed between universities and other non-ARC research institutions in Egypt, and with ARC researchers, to make use of their respective talents and facilities in solving top priority research topics relating to improved agricultural productivity. Increased funding provided to non-ARC research institutions in Egypt under the NARP Research Grants Program will assist in providing funds for high priority research programs, selected improvements in equipment and facilities and needed in-country and out-of-country training and personal contacts. In addition to direct benefits that ARC will receive from non-ARC programs that supplement their research activities, they will receive long-term benefits because students should be better prepared to meet career needs as agricultural researchers. Emphasis on research at the regional universities, and coordination provided through NARP, will provide increased integration of interdisciplinary research within agronomic zones to better meet the needs of farmers within each area.

The NARP Research Grants Program has two main objectives:

- To fund research by Egyptian institutions outside of ARC to supplement ARC's ongoing research relating to improved technologies for farmers.
- To encourage increased interdisciplinary research, adaptive or applied work, on-farm trials where applicable, and relevant economic and sociological evaluations. Each institution will be encouraged to concentrate on one nearby region and to emphasize an integrated approach to improvement of all major crop and livestock activities of local farmers.

Several clienteles will be addressed through the Research Grants Program:

- Regional universities and other non-ARC agricultural research institutions in Egypt.

- Researchers in ARC.
- Private sector firms that need assistance in research activities that relate to agriculture.
- Farmers in specified agro-economic areas.
- Collaborating USA universities and International Agricultural Research Centers (IARCs).

Action groups concerned with supporting the Research Grants Program are:

- The Research Grants Program Working Group.
- Involved Coordinators, Group Leaders, Investigators-In-Charge, and their staffs, for approved proposals and projects.
- Related researchers in ARC, cooperating private sector firms, USA universities and the IARCs.

The Research Grants Program can produce:

- A substantial body of research results, which will supplement those from direct research at ARC, to meet NARP objectives.
- Improved research and training capabilities within collaborating Egyptian institutions.
- Integrated research (at nearby institutions) relating to major constraints facing farmers from all agricultural regions in Egypt.
- A coordinated and collaborative agricultural research community.
- Improved future staff for ARC based on the improved facilities and staff at the regional universities, together with increased funds for adaptive research, on-farm trials, and economic and sociological evaluations. Students trained in this improved environment should be fully capable of conducting the research needed for a continuous flow of improved, appropriate agricultural technologies for farmers. Some, however, will need additional training outside of Egypt and all researchers should have opportunities to participate in international workshops, symposia or other ways to meet other scientists.

Actions Under The Research Grants Program Through Early August 1988

Identification of NARP Agronomic Zones and Broader Regional Groupings for the Research Grants Program

These are shown in Annex I of the *Procedures for Grant Research Under NARP at Egyptian Research Institutions*, hereafter referred to as the *Procedures Manual*. Agronomic Zones were suggested by the Research Studies Coordinator shortly after he arrived in Egypt in early January 1987, based on prior MOA/USAID/USDA research in Egypt of which he was a part in 1975, and these were approved by the NARP Director General for use within ARC. The broader regional groupings for use under the Research Grants Program were recommended by the Chairman, Research Grants Program Working Group, in a memo to the Working Group dated July 13, 1987.

Application of Identification Codes To Research Topics Provided By ARC Institute Directors

This was done jointly by the Research Studies Coordinator and the Interdisciplinary Research Advisor, mostly during January-February 1987. The 968 topics and their codes are shown on pp. 59-137 of the NARP *January-March 1987 Quarterly Report*, NARP Publication No. 2. These topics were obtained in part to establish research priorities under the Research Grants Program.

Preparation of a Manual for Grant Research Under NARP

This was started in late January 1987 by the Research Studies Coordinator based in part on recommendations and guidance received from the USAID/NARP Project Officer and is referred to in this Work Plan as the *Manual*. Drafts were provided to the NARP Director General, the Chairman, Research Grants Program Working Group and the CID/NARP Chief of Party and selected others in mid-February and, after some revisions, were provided to a newly formed Research Grants Committee, at the request of the NARP Director General, on March 1. In early May, research proposal and evaluation forms for use both by ARC and under the Research Grants Program were developed by various CID/NARP TA staff. With some modifications, these are included in the *Manual* (pp. 20-38 and 39-45). Introductory text for the *Manual* was rewritten in late May to incorporate various developments under the Research Grants Program. A number of procedural matters were clarified in a meeting with the USAID/NARP Project Officer and the CID/NARP Chief of Party on June 2. Recommendations growing out of this meeting were approved by the NARP Director General a few days later. Details were reviewed with the TA Administrative Services Advisor and the NARP Executive Office and needed changes were made in the *Manual* draft. Copies of this draft were provided to the NARP Director General and the CID/NARP Chief of Party for review and,

with the approval of the NARP Director General, to all members of the Research Grants Program Working Group at their meeting on June 16.

The *Manual* initially was based on an assumption that contracts would be signed by September 1987. By mid-July it became apparent that this goal would not be achieved. The *Manual* was rewritten to allow for a flexible starting date, and the proposed final ending date for research was extended by one year to December 1992. A contract draft covering expenditures in £.E. was added (pp. 46-52). In January 1988, a decision was made to refer to this as a Grant Agreement. Final format for this Agreement is shown on pp. 20-25 of the *Procedures Manual*.

Approval from the NARP Director General for the *Manual* was received on October 27 and the *Manual* was issued as NARP Publication No. 7 by the end of that month.

Letter To Non-ARC Egyptian Research Institutions, Including the 14 Faculties of Agriculture and four Faculties of Veterinary Medicine, Requesting Research Pre-proposals

This letter, dated March 18, 1987, requested priority topics (or pre-proposals) for research under the NARP Research Grants Program, together with a brief justification and plan of work. Initially, each institution was limited to 10 proposed topics, but this later was modified. The number submitted per institution ranged from 1 to 39. A total of 337 pre-proposals was included in the final tabulation, which covered 31 institutions. The letter from the NARP Director General asked that these be submitted by April 15. A copy of this letter in Arabic, together with an English translation, is given in Annex I. This letter was approved by the Research Grants Committee.

Appointment of the Research Grants Program Working Group

Ministerial Decree No. 390 for 1987, issued by the Deputy Prime Minister and Minister of Agriculture and Land Reclamation on February 13, 1987, appointed 12 Working Groups under the NARP Project. At the request of the Research Grants Program Working Group, Dr. Hassan Khedr was added in July. Dr. Farouk Rakha was added in December. The full group is shown below. The first meeting was held on May 12, 1987, and the Group has met twice monthly since that date. Eng. Nasr Rohaiem, USAID/AGR, has attended most meetings as an observer. The Research Studies Coordinator serves as Secretary.

Dr. Bakir Oteifa, Chairman
Dr. Mahmoud El-Barkouky
Dr. M.S. Hanafi
Dr. El Sayed Hassanein
Dr. Hellal El-Hattab
Dr. Hassan Khedr
Dr. Osman El-Kholy

Dr. Abdallah Nassib
 Dr. Farouk Rakha
 Dr. Gamal Samie
 Dr. Ahmed El-Sahrigi
 Dr. Abdel Moneim Youssef
 Dr. Saad Zaky
 Eng. Aly Abou Gazia
 Eng. Mohamed El-Issawy

Evaluations by the Working Group of Research Pre-proposals

Research pre-proposals received from non-ARC agricultural research institutions in Egypt in response to the March letter from the NARP Director General mostly were provided to the Working Group during May 12-28. These research pre-proposals were assigned for evaluation to specific members of the Working Group based on their individual knowledge in the involved disciplines. Their findings were discussed at meetings of the full Group, and recommendations with respect to each pre-proposal were finalized. Proposals were to be requested from those submitting approved pre-proposals. At times it was recommended that the researchers discuss their proposed research with specified persons in ARC and/or NARP, that they should coordinate their activities with that proposed at other institutions and/or that they should expand or contract their scopes of work. Working Group evaluations of pre-proposals were completed by disciplines on the following dates:

All except those listed below	July 19
Plant Protection	August 10
Economics and Extension	August 24
Mechanization (following requests for revisions)	September 21
Field Crops and Cropping Systems	October 8

A preliminary summarization for 331 research topics from 31 institutions, for which computer work was performed by the NARP Executive Office, was distributed to the Working Group on September 21, with a copy given to the NARP Director General on September 24. This document was provided to CID TA staff under a covering memo dated September 17 with a request for their comments. Needed revisions for all subject matter areas except Field Crops and Cropping Systems were finalized at the Working Group meeting on September 24.

A final tabulation was slightly modified and then accepted by the Working Group at its meeting on October 15. Further changes in the Working Group recommendations were made based on new knowledge. Decisions as of mid-January 1988 are shown in Table 1. This table lists 15 subject matter groups in the first column and then shows for each one proposals to be requested divided into those as individual proposals and those that are part of a consolidated group of related topics, topics for which additional pre-proposals are desired, proposals recommended for non-funding and two that are "on-hold" until

procedures to fund collaboration with USA universities are developed. The total number of pre-proposals in each category are shown below:

<u>Item</u>	<u>No.</u>
Proposals to be requested:	
As individual proposals	106
Part of a consolidated group	116
Recommended for non-funding	105
On-hold	2
Suggested new topics	8
Total proposal topics considered	337
Number of consolidated groups	34

Lists of the individual pre-proposals by subject matter groups were provided to each member of the Working Group, selected NARP staff, and the USAID/AGR Research Grants Program Working Group Observer with a request that he share them with others in his organization. These are divided in the same way as on the summary table except that each consolidated group begins on a new page and the "lead" topic, together with the Coordinator, is shown first. Revised titles are shown if needed. These may merely be a clarification or condensation but, at times, reflect a major change in the scope of work as recommended by the Working Group. Institutions are listed under the heading "ORG" by code letters. A separate sheet lists these institutions by name in alphabetical order based on the codes. An additional list of the pre-proposals was prepared for the NARP Director General using a separate group of pages for each institution. Recommendations for each topic are entered under the titles "Full Proposal", "Consolidated" or "Non-funded". Those "On-hold" also were indicated. Copies of these research pre-proposal listings can be provided if desired.

Copies of the institutional listings, together with statements for specified individuals who submitted pre-proposals or will be involved as coordinators for large consolidated groups, were sent to each of the Senior Officials from whom initial pre-proposals were received under a covering letter from the NARP Director General. The Senior Officials, e.g. Faculty Deans, were asked to photocopy these sheets and provide them to the indicated individuals. The letter indicated that copies of the *Manual* would be available "in a few weeks" but that preparation of certain aspects of the material needed for proposals could begin immediately. Five copies of the proposals were to be provided to the NARP Director General within two weeks after the *Manual* was received. Operating budgets as shown in the proposal forms were to begin three months after delivery of the proposals to NARP. Copies of the three alternative statements and the covering letter are shown in Annex II. However, mailing of this material was delayed and it actually was sent as part of the mailing described in the next paragraph.

Manual copies were sent as required to each of these institutions in early November with a request that they be provided to each researcher who was to contribute material to a proposal, i.e. Principal Investigators or Senior Researchers, plus one for the central administrative office. A copy of this covering letter is shown in Annex III. All of this material was hand delivered to

Table 1. Proposal Topic Recommendations By the Research Grants Program Working Group

Subject Matter Group	Proposals to be requested			New Topics	Not to be Funded	On-hold	Total Proposal Topics Considered
	Individual Proposals	Consolidated					
		Groups	Proposals				
Cropping Systems	6	1	6	0	7	0	19
Field Crops	11	10	34	0	20	0	65
Horticulture	4	7	24	0	11	0	39
Protected Agriculture	0	1	10	0	0	0	10
Plant Protection	20	5	9	0	20	0	49
Tissue Culture	8	0	0	0	0	0	8
Soil and Water	12	2	6	0	4	0	22
Microbiology	7	0	0	0	3	2	12
Economics	6	2	8	8	7	0	29
Extension	4	0	0	0	0	0	4
Food Technology	5	3	10	0	1	0	16
Animal Production	10	1	3	0	20	0	33
Agric. Wastes (for animal feed)	1	2	6	0	3	0	10
Mechanization	10	0	0	0	5	0	15
Other	2	0	0	0	4	0	6
Total	106	34	116	8	105	2	337

each institution over the period November 7-10. In January 1988 a recommendation was made to drop the terms "Principal Investigator" and "Senior Researcher" and to use "Investigator-In-Charge" and "Researcher" instead.

Training Needs for the Research Grants Program
As Stated In the NARP Master Training Plan

Estimates in August 1987 were needed for incorporation into the NARP *Master Training Plan*. Actual training needs under the Research Grants Program will not be known until funding decisions have been made for received proposals. All training to be funded under the Research Grants Program will involve expenditures in dollars, either for out-of-country travel and per diem or to bring in TDYs for in-country training. Amendment 1 provides seven million in USD for the Research Grants Program. Six million of this was allowed for equipment purchases in the USA, with the remaining one million to cover training. Later revisions in budgets reduced the total amount to 4.5 million USD.

Based on costs as used in the *Training Plan*, one million USD would allow 20 man years of postdoctoral training plus five 2-month TDY trips for in-country training plus 80 1-month observational travel-type trips. This was suggested as the estimated minimum needs. Maximum levels of 100 man years of postdoctoral training plus 20 2-month TDY trips plus 250 observational travel-type trips would require four million USD. This was based on an assumption that Grants funding may expand under the new NARP Project Paper to be completed in 1988.

The statement included on the Grants Program in the NARP *Master Training Plan* (MTP 14) is shown below. The "Short Term Training" item actually relates to proposed 2-month TDY trips to provide in-country training on technical subjects.

PERCEIVED TRAINING NEEDS BY RESEARCH STUDIES PROGRAM

The Research Studies Program will involve grants to Egyptian universities and private sector research groups in Egypt. It is designed to augment the ARC research program especially in adaptive research within agronomic zones that are close to the institution. Training will be needed especially at the postdoctoral level and in short term and observational travel to enhance the flow of information and data on relevant applied research. Linkages need to be developed between Egyptian University staff and United States Universities, international agricultural research centers and private sector companies.

The Egyptian Universities will offer proposals in January 1988. Specific training needs are not available at this time but it is estimated that the following will be needed:

Type of Training	Number of Trainees
Postdoctoral Training	20-100
Short Term Training	5-20
Observational Travel	80-250

Proposed Modification in Training
Under Part A of the Work Plan

In mid-February 1988, the Working Group agreed that no postdoctoral training and no out-of-country consultants for in-country training would be allowed under the Research Grants Program phase covered by Part A of the Work Plan. These will be included in Phase B of the Program, which concerns collaborative research with USA Universities and International Agricultural Research Centers. A suggestion was made at the March 27 meeting of the Working Group that each funded research proposal be allowed not to exceed approximately 5,000 US dollars for one 10 to 15-day out-of-country trip if this could be justified by research needs. This was approved by the NARP Director General. On May 8, the Working Group recommended instead that the USD allotment be in proportion to the £.E. budget, with use of the funds to be determined by the Principal Investigator, subject to the above limitation on offshore travel.

Support Staff Needs for the Research Grants Program

Support staff needs were outlined in a memo to the NARP Director General dated July 26. At his request, these were consolidated with those for other NARP activities. An overall memo was sent to him on August 17. Support staff requests for the Research Grants Program included immediate part-time secretarial services as needed plus permission for the Executive Office to hire an outside secretarial firm to handle mass mailings and mass computer inputs plus two accountants to work full time on the Research Grants Program once Grant Agreements are signed. When this request was made, form letters were planned for each person who submitted a research pre-proposal plus each of their senior officials, a total of about 360 individualized letters. This would have required an outside secretarial firm. This process was greatly simplified by the decision to send letters only to senior officials.

Provision by the Executive Office of computer assistance for the data base program and of substantial secretarial services beginning in late September 1987 have taken care of the Program's current needs for support services.

Meetings with Senior Officials and Researchers in Giza and at Four Regional Faculties of Agriculture With Respect to Desired Proposals

A series of training meetings were held with Deans or comparable officials by the Chairman, Research Grants Program Working Group, and the NARP Research Studies Coordinator during November 1987. The CID/NARP Chief of Party attended four of the five meetings. The meeting schedule and a briefing paper for use at these meetings is included in Annex II. On December 8-9, a similar meeting in Giza was held for senior researchers. The letter sent by the NARP Director General on pre-proposal recommendations (Annex II) indicates that the Research Studies Coordinator will be pleased to answer any questions on the Manual or other aspects of the Research Grants Program. Many questions were directed to him and the NARP Director General and the Chairman, Research Grants Program Working Group. Requests for changes from Working Group recommendations, however, were referred to the NARP Director General.

Topics for Which Additional Proposals Are Desired

The Working Group recommended 14 topics on which new proposals are desired. These are shown in Annex IV. The Group recommended that these be included in the letter to senior officials. However, it was felt that this might open the door to too many new proposals. Instead, the eight topics in the field of Economics were recommended as a new consolidated group. Several other topics, which relate to agricultural production, were assigned to specific researchers with a request for proposals and hence are no longer shown in that column within the summary table.

Solicitation of Proposals from the "Private Sector"

An advertisement to solicit research proposals from the private sector for the Research Grants Program in English and in Arabic was sent to the NARP Director General by the Working Group on August 26 with a request that these be placed in appropriate publications. A decision was made by the Working Group on September 24 to actively move ahead with personal contacts to solicit proposals from the private sector. A 2-page statement in English and Arabic was prepared to inform private-sector firms of the nature of the NARP Research Grants Program and how it might relate to them and will be used to develop contacts prior to active solicitation of proposals by advertisements. These statements are shown in Annex V, together with the English version of the proposed advertisement. At the October 29 meeting of the Working Group, agreement was reached that the term "private sector" in relation to the Research Grants Program should be defined as applying to firms that conduct activities relating to agriculture that largely would be done by private sector firms in western developed countries. This would cover seed companies; exporters, importers or processors of items related to agriculture; young investors in new lands; and perhaps some large farmers if their concerns apply to many farmers.

Procedures for private sector firms likely will differ from those for established research institutions. A Work Plan for this area will be prepared, together with

detailed procedures, no later than mid-1989. Active solicitation of proposals from the private sector will then begin.

Memo from His Excellency Deputy Prime Minister and Minister of Agriculture and Land Reclamation Requesting Specified Changes in the Research Grants Program

This memo was received by the NARP Director General in late December. A copy is shown in Annex VI. Major suggested changes in the Research Grants Program as planned prior to this letter are as follows:

- Most proposals should be combined into a relatively few large integrated projects covering broad subject matter areas. An example given in the memo relates to 18 proposals dealing with Plant-Soil-Water Management for New Lands. A coordinator would provide broad supervision, assist in preventing duplication of efforts, and make sure that valuable findings are shared among all those involved.
- The term "Senior Researcher" will be replaced by the term "Investigator".

A number of suggestions were made in the memo that relate to specific language in the *Manual*. These do not directly affect operational procedures.

Revised Format for the Initial "Contract"

At the request of the USAID/NARP Project Officer, the Research Studies Coordinator met with the USAID/AGR Research Grants Program Working Group Observer and a Contracting Officer, Office of Contract Services, USAID, on January 20, 1988, to discuss changes in the format of the "contract" desired by USAID. The following were proposed, subject to review by USAID legal staff:

- The word "contract" will be replaced by the term "grant agreement".
- The term "administrative fee" will be replaced by the term "indirect costs".
- A clause relating to use of laboratory animals for research will be added to all Grant Agreements.

A Grant Agreement which incorporates the three changes noted above is given in Annex II of the *Procedures Manual*, pp. 20-25.

Evaluation of Proposals and Funding Considerations

Researchers from whom proposals were requested were asked to provide five copies to the NARP Director General within two weeks after receipt of the *Manual*. Following the meeting with researchers in Giza, the deadline was postponed first to December 31 and then to January 15. By that date, 204 proposals having individual budgets and 26 new suggested research topics had been received. In addition, specific institutions were requested to submit proposals on eight topics relating to macroeconomics. A number of additional proposals have been accepted for evaluation. Requests for £.E. funds for the submitted proposals were nearly triple the available amount. Requests for dollar funds were difficult to tabulate but likely exceeded available amounts by at least 10 fold.

Proposals related to protected agriculture were provided to an assigned coordinator for an initial consolidated project in this area. Remaining proposals and most new research topics were provided to Working Group members during February 8-11, 1988, and were evaluated by assigned members with expertise in the involved areas in a way similar to that used for the pre-proposals. Primarily this review was concerned with the basic soundness of the proposed research. Budgets and related requests (equipment, training, etc.) were examined to determine if they are reasonable in relation to expected outputs. The Working Group members also were asked to recommend large integrated projects where feasible within their general subject matter area. Recommendations by individual members were reviewed and approved by the full Working Group. Funding recommendations for 246 proposals and new research topics were sent to the Director General on May 24.

Evaluation procedures were discussed at length at a Working Group meeting on January 21. Because of the diversity of research covered by the Research Grants Program, the consensus was that no uniform set of criteria could be developed. Each Working Group member has established criteria relating to his area of expertise. A written report presenting the reasons for recommendations has been prepared by most Working Group members for each proposal evaluated.

Funding recommendations by the Working Group were carefully evaluated by both the Director General and H. E. Deputy Prime Minister and Minister of Agriculture and Land Reclamation. A decision was made in late July 1988 to begin the implementation process with proposals recommended for funding that are listed under Field Crops. This group includes about a fifth of the total number of proposals recommended for funding. Certain modifications in operating procedures were made at about the same time. The *Procedures Manual* was revised to take account of these and was issued as an internal NARP publication in August. Notification letters from the NARP Director General dated August 1 relating to funded proposals within the Field Crops Group were hand delivered to Faculty Deans and comparable Senior Officials and, through these, to the individual Principal Investigators. The latter, together with Coordinators of integrated projects, were requested to attend a meeting in Giza on August 15 to discuss general program procedures. Copies of these letters are given in Annex VII. Implementation for remaining proposals recommended for funding will take place as rapidly as feasible.

Planned Activities

A Checklist for Final Budget and Work Plans

A 10-page Checklist was prepared in May 1988. This is designed to assist individual Principal Investigators in revising budgets and work plans and in enumerating items to be funded from their US dollar allotment, which will be administered by the NARP Executive Office. The first page will be individually printed by the computer for each funded proposal, but remaining pages are the same for all. Special forms relate to Facility Improvement, items to be purchased by the NARP Executive Office, and requests for near-term out-of-country travel. This Checklist is being revised to take into account the recent procedural changes noted above. The Checklist is to be completed and returned to NARP by early September for those proposals covered at the August 15 meeting. Some items on it are needed before Grant Agreements can be prepared.

Signing of Grant Agreements and Initial Funding

The last item on the Checklist states the following:

Five copies of this Checklist, the final budget set and related activity charts, together with Forms B, D and E if used, should be provided to Dr. Ahmed Montaz, Director General, NARP, ARC, Giza, within two weeks. Grant Agreements should be ready for signature within three weeks after these forms are received by the Director General. The NARP Contact Person at your institution will be notified by telephone when these are ready; copies for signature will be delivered to your institution. A cheque for the first three months of budgeted expenses will be available as soon as the Grant Agreement is signed provided that NARP has been notified by your bank that a special bank account for NARP funds has been opened and that needed initial funds have been received by NARP from USAID.

The initial starting month is planned for October, a satisfactory date for all winter crops.

Collaborative Research With USA Universities and International Agricultural Research Centers

These activities are expected to be funded under the amended *NARP Project Paper* to be completed in 1988. Several members of the Working Group, especially the Chairman and the CID TA staff, have worked extensively in this area and thus can provide guidance as progress is made on implementation. A Work Plan will be developed before the end of calendar year 1989.

Handling of Procurement and Training That Involves US Dollars

Procurement of equipment, all of which is to be purchased *through* the NARP Executive Office, will be handled in the same way as for the general line item for equipment in the NARP budget except that funds will come from the Research Grants Program line item. USAID staff who are working in this area have been informed of the expected total dollar amount involved and have been told that, based on EMCIP experience, roughly 80% will relate to laboratory equipment, including repair parts for USA equipment that may already be in Egypt.

Out-of-country travel, including postdoctoral programs, and TDYs brought to Egypt to provide training in-country in highly specialized areas, will be handled through the Training Unit that is being established to handle similar activities for ARC personnel. However, funds will be from the Research Grants Program line item.

Funds for both sets of activities will be administered directly by the NARP Executive Office. No indirect costs will be paid to Egyptian research institutions in relation to these expenditures.

Strengthening Grants To Egyptian Research Institutions

Although none of the USD funds for procurement or training-type activities will be handled by in-country research institutions, they and their professional staff will benefit from these expenditures. Item (c) on page 6 of the *Procedures Manual* states, "At the successful completion of the proposal, any equipment purchased with NARP funds becomes the property of the involved Faculty or responsible institutional unit. If desired, such equipment at that time could be reassigned by the Faculty to a central laboratory or to a different Department than the one to which it was assigned under the NARP Research Grants Program". Thus, these items will not be permanently assigned to the Department (or similar unit) performing the research and very definitely not to the researchers per se. Over the long term, purchased and/or repaired equipment and various types of training-related activities should greatly strengthen the Faculty or similar broad research institutions whose Senior Official signs the Grant Agreement together with the Principal Investigator.

Item (d) on page 6 says,

"When all items to be acquired with non-operational funds are agreed upon, a "Strengthening Grant" agreement will be signed with each involved institution.

This will indicate specific items to be acquired with NARP funds, the proposal to which each is assigned over the period of research, any items to be shared among proposals, and other pertinent information. Approval of one or more proposals by a Faculty Dean or equivalent official implies a willingness to accept and be responsible for such a Strengthening Grant".

An Institutional Strengthening Grant Agreement is given in Annex VIII.

Required Reports and Monitoring Activities

Required reports are described in detail on pp. 10-12 of the *Procedures Manual*. The NARP *Project Paper* (p. 26) states, "Progress reports will be provided quarterly and site inspections and a review of the reports will determine if funding will continue during the full duration of the proposal." Experience under EMCIP indicated that semi-annual reports are better for crop-related activities than are quarterly reports and would be fully adequate for monitoring and evaluation of all activities. Twice-per-year site visits also are highly desirable as was shown in 1983 and 1984 under the EMCIP University Grants Program. The *Project Paper* annual reporting requirement will be met in the following way:

1. Written report by NARP staff on an October-November site visit.
2. Mid-year progress report by the Principal Investigator or project Coordinator due in January.
3. Written report by NARP staff on an April-May site visit.
4. Annual report by the Principal Investigator or project Coordinator due in August except for the last year covered by the project.

The first site visit is planned for October-November 1988. For each first visit, benchmark conditions at each institution prior to any significant expenditures based on funding from NARP will be documented. A report form for visits to units conducting research under the Research Grants Program is shown in Annex III of the *Procedures Manual*. A sheet for recording benchmark information during the first visit is included.

A final report is due six months after termination of each proposal or by April 1993 whichever is earlier. It will replace the annual report for the last operational year.

Each month accounting staff will compare expenditures with budgets on a cumulative basis. Page 10 of the *Procedures Manual* states, "If receipts are consistently below the initial budget by a substantial amount, future budgets will be reduced and the funds reallocated to other proposals." The proposed time to do this is during the evaluation of mid-year and/or annual reports. Any such reduction would be discussed in advance with the Principal Investigator and the related Senior Official (e.g., Dean).

Any needed changes in research activities will be noted in the site visit reports and brought to the attention of the Working Group. Each of the reports to be

submitted will be evaluated by the member of the Working Group who evaluated the related proposal, and key findings will be reported to the full Working Group. Copies of these evaluations, after approval by the Working Group, will be sent to the corresponding Principal Investigator. All relating to each institution will be sent to the Senior Official who signed the Grant Agreement.

The fourth item under "Implementation Rules" on page 5 of the *Procedures Manual* states the following:

"Failure to perform planned research, to cooperate in on-site visits and/or to provide required reports on schedule will result in a discontinuance of NARP funding and cancellation of the NARP Grant Agreement. Any funds on hand for which acceptable receipts are not available must be refunded to NARP in such cases. This could apply to a single Department, a single proposal, or possibly to a research institution depending on the circumstances".

These rules will be strictly enforced.

Dissemination of Results

Under EMCIP, a summary of 5-10 pages from the annual report was edited by the expatriate Manager and these were issued collectively in a numbered EMCIP Publication. Changes from prior years in methodology and findings were emphasized. Thus, these reports had to be read in sequence. However, the final report for the project was self-contained. These reports were usually about 200 pages for the 29 EMCIP grants projects.

Under NARP, findings might be summarized under 30-35 integrated groups. Each coordinator will be asked to prepare the summary in their area. The NARP Research Studies Coordinator likely would prepare summary drafts for individual proposals by subject-matter areas, then review these with the corresponding member of the Working Group, whose name would appear as the author. This should result in a manageable annual program summary for publication. This summary likely would be issued as a NARP Publication near the end of each calendar year, beginning in 1989.

Annual meetings for Investigators working within most or all of the seven regional groupings shown on page 19 of the *Procedures Manual* are planned. Summaries by subject-matter groups are proposed. A major purpose of these meetings would be to identify needed changes in emphasis or any gaps in research to address major problems affecting agricultural productivity within the region. These meetings might be held in October, so that changes proposed could be incorporated into the new work plans to be submitted in January.

Training of Egyptian Staff To Handle Possible Future Research Grants Programs

One of the tasks shown under Collaborative Research (the Research Grants Program) in the contract between CID and the MOA (p. A-7) is

- training of staff to implement the Grants Program efficiently

To date, no professional staff (other than the Working Group) has been provided to assist the Research Studies Coordinator in implementing the Research Grants Program. Working Group members are too busy to do more than attend meetings, handle required evaluations that relate to their area of expertise, and occasionally undertake special tasks assigned to them. The Working Group Chairman assumes additional responsibilities as required, but most day-to-day activities are conducted by the Research Studies Coordinator. Given substantial aid from support staff, the work to date has been handled, but no professional-level training was accomplished.

The following proposal by the Research Studies Coordinator is included in the NARP *Annual Report* 1987. Its purpose here is to indicate tasks to be performed by Egyptian professional staff working through the NARP Executive Office in relation to the Research Grants Program and a possible source of researchers with the necessary skills.

"Egyptian staff will be needed from mid-April 1988 forward to assist in the NARP Research Grants Program in developing background documentation for Grant Agreements and in making required twice-per-year site visits to research institutions. This staff also will be needed in preparing the associated written site visit reports and in assisting in the preparation of annual report summaries for publication. Provided staff should be experienced researchers (full professors) with adequate English, preferably with a PhD or at least six months of postdoctoral training in a western developed country or at an IARC. Additional training could be provided by the Research Studies Coordinator and perhaps some of the Working Group Members. The Agricultural Machinery Research Institute at ARC already has provided such assistance, in part by the NARP Agricultural Mechanization Advisor. One or more specialists seconded for such activities by each of the following ARC Research Institutes would be extremely valuable: Field Crops, Horticulture, Plant Protection, Soil and Water, Animal Production and possibly others. Perhaps a second person from Field Crops could cover Food Technology and other areas not specifically mentioned. Part time training under this phase of NARP could assist in the process of cooperation and coordination between the ARC and University agricultural research programs".

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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ANNEX I

Request for Research Pre-proposals

جمهورية مصر العربية
وزارة الزراعة
المشروع القومي للأبحاث الزراعية
مكتب مدير عام المشروع
====

A. Arabic Version

السيد الأستاذ الدكتور /

رقية طيبة وبعد

تقوم وزارة الزراعة بتنفيذ المشروع القومي للأبحاث الزراعية لتمويل مشترك من الحكومتين المصرية والأمريكية ، ويهدف هذا المشروع إلى زيادة الإنتاج الزراعي القومي بالعمل على الحد من مشاكل ومخوقات قطاع الزراعة المصري وفقا لخطه التنموي المستهدف والأولويات التي تحددها وزارة الزراعة. ويتضمن هذا المشروع مكونا للتعاون البحثي مع الجامعات والهيئات العلمية والبحثية من خارج وزاره الزراعة في تحقيق هدفه سالف الذكر .

لذا فإن وزاره الزراعة تتوجه بالحصوه للكليات والهيئات البحثية المصرية للمشاركة في تنفيذ هذا المكون بالتقدم بمقترحاتها من مشروعات بحثية متكامله ومتعدده التخصصات تهدف إلى حل مشكلات ومخوقات زراعيه إقليمييه أو قومييه .

ولسما يلي النقاط الرئيسيه التي نرجو مراعاتها في مشروعات المحوث المقدمه :

- 1- أن يتضمن مشروع البحث المقدم الهدف منه ، المشكله التي سوف يعالجها ، خطة العمل ، الجهات السحنيه التي سوف تقوم بالتنفيذ أو تشارك فيه .
- 2- أن تشارك في المشروع تخصصات بحثيه متعدده ومتكامله وذلك يمكن تحقيقه بالتعاون بين الأقسام السحنيه المختلفه داخل أو خارج المؤسسه العلميه مقدمه المشروع .
- 3- ألا تتعدى فتره التنفيذ نهايه عام ١٩٩١ .
- 4- ألا يزيد عدد المشروعات البحثيه المقدمه من كل مؤسسه علميه عن عشرة مشروعات .
- 5- ألا يشارك المتخصص الواحد إلا في مشروع واحد فقط .
- 6- يقدم المشروع مركزا فيما لا يزيد عن ثلاثه صفحات فولسكاب وباللغه الإنگليزيه .
- 7- مراعاة إمكانيات الكليه أو الأقسام السحنيه طرفكم من ناحيه التجهيزات المعمليه و الخلقه.
- 8- أن تصلنا المشروعات المقدمه في موعد أقصاه ١٩٨٧/٤/١٥ على مكتبنا مركز المحوث الزراعيه بالجيزه. هذا وسوف نقوم لجان متخصصه بحراسه المشروعات المقدمه وقديده أولوياتها وفقا للمشكله التي يعالجها كل مشروع و أثره على زياده الإنتاج الزراعي ومدي إرتباطه بالخطة القوميه للتنميه الزراعيه. وبهذه المناسه أرجو أن تفضلوا والساده زملاء ، تقبول خالص التحية والتقدير ، أملا في تحقيق التعاون والترابط البحثي والعلمي المنشود مع وزاره الزراعة من خلال هذا المشروع وغيره من أنشطتها المختلفه. وتفضلوا سيادتكم بقبول فائق الإحتياج ،،،

وكيل

مركز المحوث الزراعيه
ومحبر عام المشروع

تقريرا في ١٩٨٧/٣/١٦

(د. أحمد ممتاز علي حافظ) الخبير

ARE
MOA - NARP
OFFICE OF D.G.

18/3/87

B. English Translation

Dear Dr.

The MOA is executing the National Agricultural Research Project to be funded by the American and Egyptian Governments. This Project aims at increasing the national agricultural production by reducing the problems and obstacles of the Egyptian Agricultural Sector according to the goals of the development plans and priorities set by the Ministry of Agriculture.

This project includes an item for research cooperation with the universities and research and scientific organizations outside the MOA to achieve its above mentioned goal.

Therefore, the MOA invites the Faculties and the Egyptian research organizations to contribute in executing this item by submitting their suggestions of integrated research projects and of multiple specializations (fields) aimed at solving regional and national agricultural problems and obstacles.

Please find below the basic points to be considered when submitting the Research Projects:

1. The submitted project should include its objective, the problem to be solved, plan of work, and the research organizations executing the project or contributing in it.
2. A variety of integrated research specializations should participate in each project. This could be achieved by cooperation between various research departments inside or outside the scientific organization submitting the project.
3. The execution period is not to exceed December 31, 1991.
4. The submitted research projects presented by each scientific establishment are not to exceed 10 projects.

5. No participant should be actively involved in more than one project.
6. A summary of the project should be presented in no more than three fullscap pages and in English.
7. Consideration should be given to abilities of the Faculty or research departments at your end regarding laboratory and field equipment.
8. The submitted projects are to be received no later than 15/4/87 at the NARP office in ARC.

Specialized Committees will study the projects and define their priorities according to their expected contribution to solution of the problems covered by each project and its effect on increasing agricultural production and its relation to the national plans of agricultural development.

Dear Sirs and Colleagues,

Please accept our deep thanks for your cooperation in promoting these research and scientific links with the Ministry of Agriculture through these projects and the different involved activities.

Please accept our respects.

Dr. A. Momtaz
Deputy Director of ARC
And Director General of NARP

ARAB REPUBLIC OF EGYPT
MINISTRY OF AGRICULTURE & LAND RECLAMATION

NATIONAL AGRICULTURAL RESEARCH PROJECT

DIRECTOR GENERAL
9 GAMAA STREET, GIZA
Tel.: 723000 - 738028 - 722342
Telex: 20332 FCRI UN

وزارة مصر العربية
وزارة الزراعة واستصلاح الأراضي
المشروع القومي للبحوث الزراعية
بدر عام المشروع
٩ شارع الجامعة - الجيزة
ت : ٧٢٣٠٠٠ - ٧٣٨٠٢٨ - ٧٢٢٣٤٢
تلکس : ٢٠٣٣٢ FCRI UN

October 25, 1987

ANNEX II

A. Covering Letter To Senior Officials
for Pre-proposal Recommendations

Dear

As you know a number of your staff submitted initial proposals to the NARP Grants Program based on a request from Dr. Ahmed Momtaz, NARP Director General, dated March 18, 1987.

Over 300 proposals were received and all have been carefully reviewed by one or more members of the Grants Program Working Group, appointed by Minister Wally. Unfortunately our funds are limited in relation to the many proposals received. Thus we have had to screen out any that were not closely related to NARP objectives, that were felt to duplicate work done elsewhere, that were not essential at this time, or for other reasons.

The goal of NARP is to increase agricultural productivity by improving the quality of technologies available to farmers. The purpose of NARP is to develop the capability of the agricultural research community to provide a continuous flow of improved, appropriate agricultural technology. As you can see, both of these are very specific in nature. The NARP Grants Program is even more restricted because it is limited to research that will supplement that at ARC that falls within this framework. Thus many basically sound research proposals could not be accepted because they did not meet our restricted criteria.

We attach computerized lists that show our decisions with respect to the proposals received from staff in your institution. We suggest that you photocopy these and provide one copy to each of the involved Departments (shown in the third column from the right-hand side). For each proposal to be included in a consolidation, we also provide a sheet showing all involved proposals. At the top we show the serial number (first column on the computerized list) and the Department. This sheet must be sent by you to the proper Department and then to the involved person. Special comments are needed for some proposals. If so, these are given on a separate sheet. Again, these need to be photocopied and sent to the indicated Departments.

We also enclose a statement which you can photocopy and use for those listed as "non-funding".

A Grants Program Research Proposal Manual will be available in a few weeks. A copy should go to your office, with one also for each person who will be asked to participate in a consolidated group or to individually submit a full proposal. To permit them to start before they receive the Manual, we attach a statement which should be photocopied by your office and given to each of these individuals.

In a few cases, someone from your institution is being asked to serve as a coordinator for a group of proposals. If so, the word "coordinator" is written by hand in the column labeled "Principal Investigator". A special statement is enclosed for these staff members, with the serial number and Department shown at the top. These statements should be properly circulated to the correct Department by you.

If anyone has questions on the Manual or other aspects of the Research Grants Program, please contact Prof. Foote, NARP Research Studies Coordinator. His office phone is 731 574 [REDACTED]. On week days he is home after 4:30 P.M. or could be called most any time at home on Friday or Saturday. He will be pleased to answer any questions. His office is on the second floor of the EMCIP Building, ARC, Giza.

We cannot say whether or to what extent the full proposals submitted will be funded, but each one did receive at least a fairly high priority among those received that relate to the involved disciplinary area. We will notify you as soon as our review process is completed.

The NARP Grants Proposal Form provides space for the signature of the Principal Investigator and for the senior official at his institution which, in this case, will be you. No proposals will be accepted unless both of you have signed. The contract requires that you certify that you have read the *Manual For Grants Research Under NARP* and understand its provisions.

After contracts have been signed for operational budgets for the proposals which are accepted by NARP, decisions will be made with respect to items that involve dollar funding. These include all equipment, out-of-country travel and training, and outside consultants, many of whom will be involved in in-country training. Funding for these items will be handled by NARP staff in Giza and will become part of a "strengthening grant" for each involved institution. This will indicate specific items to be acquired with NARP funds, the project to which each is assigned over the period of research, any items to be shared among projects, and other pertinent material. Maintenance and repair costs over the life of the projects will be covered from operational funds provided by

NARP . You may need to certify that future maintenance and repair costs will be provided by your institution. No other costs by your institution will be involved.

Approval of one or more full proposals to be submitted to NARP by you implies a willingness to accept such a strengthening grant.

We appreciate the cooperation of you and your staff in respect to the NARP Grants Program.

Sincerely Yours,

Dr. Ahmed Momtaz,
NARP Director General

B. Alternative Statement No. 1

For staff members who will submit or contribute to full proposals under the NARP Grants Program.

This memorandum relates to your research proposal received under the NARP Grants Program. If funded, your proposal may become part of a larger project. If so, you will be either a Principal Investigator under a coordinator or a Senior Researcher. In either case you will be responsible for drafting your plan of work and related budget, after discussions with other involved senior staff, and for preparing reports on findings. If you are not part of a larger project, you will be the Principal Investigator for the proposal initially submitted. Any modifications required are shown by a revised title.

Those who submitted proposals that are being combined into larger groups will receive a sheet to be sent to you by your senior official (e.g. Dean) which shows the proposal number and title for the consolidated proposal (listed first and circled) and gives similar information for each of the participants including their names and departments. Institutional codes are shown in the last column under "ORG." and are listed with more complete names on the attached sheet. "Al Azhar/ Agriculture" means

Faculty of Agriculture
Al Azhar University
Cairo

If a coordinator is involved for the circled proposal, the word "coordinator" is inserted by hand.

Please note any revised titles on the listing sheet. You should carefully examine the titles in your group so that you can begin to consider how your proposal will fit into the consolidated proposal.

For all proposals, material must be in English. An operating budget by months together with a detailed plan of work will be required for the first full or partial July-June fiscal year covered by your proposal, with annual budget totals and a broader plan of work for remaining July- June fiscal years. If your consolidated proposal is delivered to NARP in September or later within the first fiscal year, then we need an operating budget by months and a detailed plan of work also for the next fiscal year. Monthly budgets should start with the fourth month after submission of the full research proposal to NARP, i.e. if submitted in November, the first budgeted month would be the following March. Research must end no later than December 1992. (Please note this 1-year change from the initial request letter sent by Dr. Momtaz.) Please use the Proposal Number shown in the first column on the left of the consolidated listing sheet for all full proposals and the revised title if one is shown. Special comments also may be provided through your senior official.

Within a few weeks you will receive a *Manual for Grants Research Under NARP*. Items for which funding can be provided are discussed in detail. All funding requests must be fully justified. Computational records that relate to budgets should be preserved and may be requested by NARP staff in connection with your proposal review. Any questions should be directed to your senior official, since answers may have been obtained from prior inquiries. Each of you can start to prepare your material now. This would include a literature review, with emphasis on publications over the past seven years. However no material should be finalized until you have carefully read the Manual. If those within consolidated groups have questions about their scopes of work, please contact the person in charge of the consolidation, that is, the first one shown on the consolidation sheet,

For full proposals, five copies should be delivered to Dr. Momtaz, Director General of NARP, ARC, within two weeks after you receive the Manual.

We cannot say at this time whether or to what extent your part of the proposal will be funded, but it did receive at least a fairly high priority among those received ~~in the first round~~ that relate to this disciplinary area. We will let your senior official know as soon as our review process is completed.

We appreciate your cooperation.

**GRANTS PROGRAM PROPOSAL RECOMMENDATION LIST
INSTITUTIONAL CODES**

AA	Al-Azhar/Agriculture
AL	Alexandria/Agriculture
ALV	Alexandria Univ./Faculty of Veterinary Medicine
ARC	Agricultural Research Center
AS	Ain Shams/Agriculture
AT	Assiut/Agriculture
ATV	Assiut Univ./Faculty of Veterinary Medicine
CA	Cairo/Agriculture
CAE	Cairo Faculty of Engineering
CAV	Cairo Univ./Faculty of Veterinary Medicine
DDC	Desert Development Center/AUC
DRI	Desert Research Institute
ESDC	Egyptian Sugar and Distillation Company
FA	Fayoum/Agriculture/Cairo University
GASC	General Authority for Supply Commodities
HE	Helwan/Agriculture/Alexandria
KS	Kair-El-Sheikh/Agriculture
MA	Mansoura/Agriculture
MAP	Mansoura/Faculty of Pharmacy
ME	Menoufia/Agriculture
MEP	Menoufia/President's Office
MO	Benha/Moshtohor/Agriculture/Zagazig
MDA	Ministry of Agriculture and Land Reclamation
MU	Minia/Agriculture
NRC	National Research Center
RSC	Remote Sensing Center/AOS
SC	Suez Canal/Agriculture
SCV	Suez-Canal University/Faculty of Veterinary Medicine
TAM	Tanta Motors/Tanta
ZA	Zagazig/Agriculture
ZAH1	Higher Inst.of Effi.Pro./Zagazig

B. Alternative Statement No. 2

For staff members whose proposals cannot be funded under the NARP Grants Program.

Your submission of a proposal for consideration under the NARP Grants Program is appreciated. Over 300 proposals were received and all have been carefully reviewed by one or more members of the Grants Program Working Group, appointed by Minister Wally. Unfortunately our funds are limited in relation to the many proposals received. Thus we have had to screen out any that were not closely related to NARP objectives, that were felt to duplicate work done elsewhere, that were not essential at this time, or for other reasons.

The goal of NARP is to increase agricultural productivity by improving the quality of technologies available to farmers. The purpose of NARP is to develop the capability of the agricultural research community to provide a continuous flow of improved, appropriate agricultural technology. As you can see, both of these are very specific in nature. The NARP Grants Program is even more restricted because it is limited to research that will supplement that at ARC that falls within this framework. Thus many basically sound research proposals could not be accepted because they did not meet our restricted criteria.

We regret that we are unable to fund your proposal under the NARP Grants Program.

We appreciate your interest in NARP and the time that you spent in preparing your initial proposal.

For proposal coordinators under the NARP Grants Program

You are requested to serve as Coordinator for a consolidated research proposal which involves at least several research topics from various institutions that were submitted under the NARP Grants Program. A *Manual for Grants Research Under NARP* will be sent to you within a few weeks. Please read the Manual to see how each of your groups should be handled.

An attached sheet shows the proposal number and title for the consolidated proposal (listed first and circled) and gives similar information for each of the participants including their names and departments. Institutional codes are shown in the last column under "ORG." and are listed with more complete names on the enclosed sheet. "Al Azhar/ Agriculture" means

Faculty of Agriculture
Al Azhar University
Cairo

Please note any revised titles. These sheets also have been sent to each of the participants within each group so that they can begin to consider how they would fit into the consolidated proposal. Some of them may contact you about desirable scopes of work.

All correspondence must be in English. Please read the *Manual* carefully before preparing your consolidated proposal and follow the format indicated. If desired, a budget may be included to cover costs for typing and assembling the consolidated reports and your travel and per diem. All funding requests must be fully justified. Five copies of your proposal should be provided to Dr. Ahmed Momtaz, Director General of NARP, ARC, within two weeks after you receive the Manual.

We cannot say at this time whether or to what extent this proposal will be funded, but those included did receive at least a fairly high priority among those received that relate to this disciplinary area. We will let your senior official know as soon as our review process is completed.

ARAB REPUBLIC OF EGYPT
MINISTRY OF AGRICULTURE & LAND RECLAMATION
INTERNATIONAL AGRICULTURAL RESEARCH PROJECT
9 GAMAA STREET, GIZA
Tel. 731574
Telex: 20332 FCRI UN

جمهورية مصر العربية
وزارة الزراعة واستصلاح الأراضي
المسروع القومى للابحاث الزراعية
٩ شارع الجامعة - الجيزة
٧٣١٥٧٤ ت
نكس : ٢٠٣٣٢ FCRI UN

ANNEX III
Grants Manual

A. Distribution Letter from Dr. Momtaz to Senior Officials

November 3, 1987

Dear Dr.

This is a supplement to my letter of October 25 relating to the NARP Grants Program. It covers three basic topics:

- Needed copies of the Manual for Grant Research Under NARP are attached, together with a schedule showing staff members who should receive them. **Please keep one copy for your office and provide one copy for each person whose name and department are circled in red on the attached sheets.**
- Additional consolidations have been made for some research proposal topics. If these involve your institution, sheets for individual researchers are enclosed. **Please circulate these as shown at the top of each one.**
- To the extent that our schedules permit, I, Dr. Oteifa, Chairman, Grants Program Working Group, and Dr. Witters, CID/NARP Chief of Party, will participate in a series of meetings with Deans and comparable officials to discuss any questions you or your staff have about the Grants Program and/or general aspects of the enclosed Manual. Prof. Foote, NARP Research Studies Coordinator, will attend all of these meetings to provide desired details with respect to the Manual and/or related operational procedures.

The attached time schedule indicates when these meetings will be held, who is being asked to arrange them, and their approximate location. If the Deans are unable to attend personally, each one can send a representative in his place.

I look forward to seeing each of you or your representative at these meetings.

Sincerely yours,

Dr. Ahmed Momtaz,
NARP Director General

B. Enclosed Schedule of Training Meetings

**Visit Schedule for Institutions Who
Submitted Research Proposal Topics
Under the NARP Grants Program**

Nov. 15 10 - 12 a.m. at the large Conference Room, EMCIP Building, ARC. Deans or comparable officials from the following institutions are invited to attend:

Al-Azhar Faculty of Agriculture
Ain Shams Faculty of Agriculture
Cairo University Faculty of Agriculture
Cairo University Faculty of Engineering
Cairo University Faculty of Veterinary Medicine
Cairo University at Fayoum Faculty of Agriculture
Desert Development Center, AUC
Desert Research Institute
Benha Branch of Zagazig University Faculty of Agriculture
at Mostohor
National Research Center
Remote Sensing Center, Academy of Scientific Research and
Technology

Nov. 16 11 a.m. - 1 p.m. at the Faculty of Agriculture at Minia. Meeting room facilities are to be provided by the Dean's Office. Deans from the following institutions are invited to attend:

Assiut University Faculty of Agriculture
Minia University Faculty of Agriculture

Nov. 22 11 a.m. - 1 p.m. at the Faculty of Agriculture at Zagazig University. Meeting room facilities are to be provided by the Dean's Office. Deans from the following institutions are invited to attend:

Mansoura University Faculty of Agriculture
Suez Canal University Faculty of Agriculture
Suez Canal University Faculty of Veterinary Medicine
Zagazig University Faculty of Agriculture
Higher Institute of Efficient Production, Zagazig

Nov. 23 11 a.m. - 1 p.m. at the Alexandria University Faculty of Agriculture. Meeting room facilities are to be provided by the Dean's Office. Deans from the following institutions are invited to attend:

Alexandria University Faculty of Agriculture
Alexandria University Faculty of Veterinary Medicine
Helwan University Faculty of Agriculture

Nov. 29 11 a.m. - 1 p.m. at the Faculty of Agriculture at Kafr El-Sheikh.
Meeting room facilities are to be provided by the Dean's Office.
Deans from the following institutions are invited to attend:

Menoufia University Faculty of Agriculture
Kafr El-Sheikh Faculty of Agriculture

HIGHLIGHTS WITH RESPECT TO THE NARP GRANTS MANUAL

1. The Manual is in a loose-leaf form. Pages should be kept intact. Those to be used should be photocopied and the originals returned to the Manual.
2. Those who are preparing material for full proposals should read the Manual carefully before preparing any final copies to be sent to NARP.
3. Detailed work plans and monthly budgets by indicated line items are needed for the balance of the 1987/88 July-June fiscal year and for all of the 1988/89 fiscal year ending in June 1989. Figures must be fully justified and all worksheets should be preserved. If first year expenditures are below the budget, the total budget will be reduced unless justification can be provided to retain the initial figure.
4. Procurement details are covered under items b to k on p. 51 of the Manual. Spare parts can be purchased only for American-made equipment. Equipment costing more than the equivalent of 500 USA dollars (roughly 1,100 L.E. at present exchange rates) per item must be purchased in the USA through the NARP Executive Office. Items desired in order of priority should be listed on the sheets shown on pp. 33-34 of the Manual.
5. No major new construction is authorized. However, funds can be provided for renovations or smaller items like screen houses, green houses, field storage sheds, etc., plus improved irrigation facilities if all material used for the facility is made in Egypt. These requests should be shown in order of priority on the sheets shown on p. 32 of the Manual. If any non-Egyptian material is to be used, it must be listed under "Equipment" and can be purchased only in the USA.
6. On the sheets on pp. 32, 33, 35 and 37 of the Manual, the last two columns provide for Yes - No answers to the question "Should your part of the proposal be dropped if funding is not available?" This question applies to each item listed. If "Yes" is checked and funds are inadequate to provide these items, the proposal will be placed "on-hold" or returned without funding. If "No" is checked, a statement must be provided on how the research will be conducted without the proposed item(s) and how its lack will affect the research.
7. Each submitted proposal must be signed by the Faculty Dean or an appropriate official from non-university institutions (see p. 23 of the Manual).
8. Only one Principal Investigator is allowed per project.

9. No single person can be a Principal Investigator for more than one proposal. They may however be a Coordinator of their own and/or other projects or a Senior Researcher on other projects.
10. Each Senior Researcher will prepare his own work plans and budget and write up his results. Consolidated reports on the research will be the responsibility of the Principle Investigator.
11. Each Dean should appoint one contact person for the NARP Grants Program. This person should be easily reached by phone and have a secretary who can reliably take messages if they are out. They will make arrangements for visits by NARP staff to the institution and handle other types of consolidated activities. They should maintain a list of all research being funded by NARP at their institution and of at least two senior staff who could be contacted in relation to any given research activity. (A 10 percent administrative fee to the involved Faculty or equivalent administrative body has been recommended to USAID. This fee would cover the above and similar duties.)

RJF/st.

NARP GRANTS PROGRAM WORKING GROUP RECOMMENDATIONS

GAPS FOR WHICH NEW PROPOSALS ARE NEEDED

PROPOSAL NO.

Initial Title

GA 01	Study of Market Structure, Conduct and Performance for Major Horticulture Crops
GA 02	Private and Social Cost of the Decontrol System of Decision Making in Agriculture
GA 03	Institutional Barriers in the Transfer of Technology in Agriculture
GA 04	Cost Effectiveness of the Present Pest-Management Program
GA 05	Socio-Economic Determinants of Herd Size for Ruminants in Agriculture
GA 06	Economics of Fertilizer Use in Agriculture Based on Efficiency and Institutional Perspectives

NARP GRANTS PROGRAM WORKING GROUP RECOMMENDATIONS

GAPS FOR WHICH NEW PROPOSALS ARE NEEDED

PROPOSAL NO.

Initial Title

GA 07

Assessment of Agriculture Credit
Policies

GA 08

Impact Analysis of Foreign Aid
to Agriculture on Production and Trade

GA 09

Fish Production, With a Fish
Production Specialist as Principal
Investigator

GA 10

Tillage Systems Under
Specified Rotations, Including
Minimum or Zero Tillage

GA 11

Impact of the Winter Closure Period
for Irrigation on Agricultural Production

GA 12

Integrated Weed Control Under
Specified Rotations

NARP GRANTS PROGRAM WORKING GROUP RECOMMENDATIONS

GAPS FOR WHICH NEW PROPOSALS ARE NEEDED

PROPOSAL: NO.

Initial Title

GA 13

Maize Breeding

GA 14

Soybean Breeding

41

Number 14
date OCT 15 87

NARP RESEARCH GRANTS PROGRAM IN RELATION TO THE EGYPTIAN PRIVATE SECTOR

The National Agricultural Research Project (NARP) is funded jointly by the Ministry of Agriculture and Land Reclamation (MOA) and the United States Agency for International Development (USAID). It is an outgrowth of several prior projects funded by these two agencies.

Narp Goal And Purpose

The Project Paper states that the goal of NARP is to increase agricultural productivity by improving the quality of technologies available to farmers. The purpose of the Project is to develop the capability of the agricultural research community to provide a continuous flow of improved appropriate agricultural technology.

A research grants program is one of several major aspects of the overall NARP Project.

Strategy for the Grants Program

The NARP Grants Program has three main objectives:

- To fund research by Egyptian institutions outside of ARC to supplement ARC's ongoing research relating to improved technologies for farmers.
- To encourage increased interdisciplinary research, adaptive or applied work, on-farm trials where applicable, and relevant economic and sociological evaluations.
- To improve the ability of universities to conduct high quality research in relevant disciplines and to provide improved training to BSc, MSc and PhD students in these areas, as funds allow.

Several clienteles will be addressed through the Grants Program:

- Regional universities and other non-ARC agricultural research institutions in Egypt including those in the private sector.
- Researchers in ARC.
- Farmers in specified agro-economic areas.

- Collaborating USA universities, International Agricultural Research Centers (IARCs), and private sector firms in the USA who can provide assistance on research to related institutions in Egypt, including those in the private sector.

The Grants Program can produce:

- A substantial body of research, which supplements that at ARC, to meet NARP objectives.
- Improved research and training capabilities within collaborating Egyptian institutions.
- A coordinated and collaborative agricultural research community.

Strategy in Relation to the Private Sector

The Project Paper states that funds under the Grants Program will be used "to support collaborative research efforts primarily with Egyptian universities and with private agribusiness firms". Research aspects of the Grants Program must be emphasized. Thus, the Program could not fund bringing an expert from developed countries to provide training in use of known techniques. But, if research is needed to adapt these techniques to Egyptian conditions or to test which of several alternatives is best under Egyptian conditions, this could be funded and, if specialized equipment is needed to conduct the tests, this might also be provided under the Grants Program.

Members of the Grants Program Working Group will be pleased to work with private sector firms to determine how they might make use of the NARP Grants Program to increase agricultural productivity in Egypt.

B. Arabic Translation of a Program Explanation

برنامج منح البحوث فى المشروع القومى للابحاث الزراعية
، فيما يتعلق بالقطاع الخاص المصرى .

المشروع القومى للابحاث الزراعية نارب يشترك فى تمويله كل من وزارة
الزراعة واستصلاح الأراضى، ووكالة الولايات المتحدة للتنمية الدولية ،وهو
امتداد للعديد من المشروعات السابقة التى مولتها هاتان الهيئتان .

أهداف وأغراض نارب

تنص ورقة المشروع على أن هدف نارب هو زيادة الانتاجية الزراعية عن
طريق تحسين نوعية التقنيات المتاحة للمزارعين، والغرض من المشروع تنمية
قدرة مجتمع البحث الزراعى على توفير فيض مستمر من التقنيات الزراعية
المحسنة والملائمة .

استراتيجية برنامج المنح

برنامج المنح نارب له ثلاثة أهداف رئيسية :

- تمويل البحوث التى تقوم بها المؤسسات المصرية - غير مركز البحوث
الزراعية - لتكامل البحوث التى تحرى فى المركز وتتعلق بالتقنيات
المحسنة لخدمة المزارعين .
- تشجيع اجراء المزيد من البحوث متداخلة التخصصات ، والتطويع أو
التطبيق والتجريب فى المزارع حيثما يمكن تطبيقه ، وما يرتبط بها
من تقييم اقتصادى واجتماعى .
- تحسين قدرة الجامعات على اجراء بحوث رفيعة المستوى فى التخصصات
المعنية وتوفير التدريب الحديث لطلاب الكالوريوس والماجستير
والدكتوراه فى هذه المجالات سعياً لتوفير التمويل .

وسوف يتم الاتصال بالعديد من الهيئات عن طريق برنامج المنح :

- الجامعات الاقليمية ومؤسسات البحث الزراعى الأخرى - غير مركز
البحوث الزراعية - فى مصر بما فيها تلك التى تتنع القطاع الخاص .

- السباحون في مركز البحوث الزراعية .
- المزارعون في مجالات زراعة اقتصادية معينة .
- جامعات أمريكية مشاركة ، مراكز بحوث زراعة دولية ، شركات قطاع خاص في الولايات المتحدة الأمريكية تستطيع تقديم العون على البحث لمؤسسات ذات علاقة بنشاطها في مصر ، بما في ذلك تلك التي تنبع القطاع الخاص .

وسوف يحقق برنامج المنح ما يلي :

- عديد من البحوث التي تكمل تلك الموجودة في مركز البحوث الزراعية ، لكي تحقق أهداف المشروع القومي للبحوث الزراعية .
- بحوث متطورة وقدرات على التدريب في داخل المؤسسات المصرية المشاركة .
- مجتمع بحث زراعي متناسق ومتعاون .

الاستراتيجية بالنسبة للقطاع الخاص

تنص ورقة المشروع على أن التمويل المخصص لبرنامج المنح سيستخدم في دعم جهود البحث المشترك وبالدرجة الأولى مع الجامعات المصرية والشركات الخاصة التي تعمل في النشاط الاقتصادي الزراعي . ولا بد من التأكد على النواحي البحثية لبرنامج المنح . ولهذا فإن البرنامج لا يحول استغلال حصر من الدول المتقدمة ليقوم بالتدريب على استعمال تقنيات معروفة . ولكن ، إذا كان الأمر يتطلب بحثاً لتطوير وأقلعة هذه التقنيات للظروف المصرية ، أو لاحتياج أي من الدائل العديدة أفضل تحت الظروف المصرية . فهذا يمكن تمويله . وكذلك إذا دعت الحاجة إلى تجهيزات متخصصة لأجراء الاختبارات فإن هذا أيضاً يمكن توفيره ضمن برنامج المنح .

ويسر أعضاء مجموعة العمل لبرنامج المنح أن يعملوا مع شركات القطاع الخاص لتقرير كيف يستطيعون الاستعانة من برنامج منح نواب الريادة الانشائية الزراعية في مصر .

C. English Version of a Proposed Advertisement

Ministry of Agriculture and Land Reclamation
National Agricultural Research Project
(NARP)

The project announces to companies and individuals of the private sector actively involved in various aspects of agricultural production its willingness to support practical research which aims at solving problems which they face in improving and developing the agricultural production which they undertake.

Priority will be given to private sector firms which prove able to cooperate with the project in this respect and which have the basic requirements for it. If desired, assistance can be provided in drafting a research proposal.

Proposals and requests are to be sent to Dr. Ahmed Momtaz, Director General of NARP at the Agricultural Research Center, 9 Gamaa Street, Giza, Cairo, Egypt, within two weeks of this announcement.

ANNEX VI

Subject NARP grant research:

Memo: from his Excellency Deputy Prime Minister and Minister of Agriculture and land Reclamation Prof. Dr. Yousef Wally. *Youssef Wally*

Reference is made to the documents, meetings, titles of projects etc. Please note the following remarks:

1. Out of 339 proposal only 104 was considered as full proposal while 107 was not funded and 128 was consolidated to form 38 projects. From the topics mentioned in your list, it is possible to suggest even further consolidation (see example 1). In addition related topics was left under full proposal in one occasion and under consolidated program in another.
2. The manual for grant research is full of details and unnecessary details which may mask the basic elements of this program.

For example:

- a- Page (1) imphases under NARP include: Increase agriculture productivity, the following elements are means to the successful fulfillment of this goal.
- b - Page (2) full cooperation is needed during the visits of NARP staff, this statement is superfluous.
- c - Page (9) E1, E2, E3 description of statistical analysis maethods not needed could be substitute with appropriate statistical methods should be used (same for page 11, 12 etc.).
- d - page 17, DUS (Desert Development Center) is not under Cairo region (Hubaria area).
- e - Page 34 statement of (NARP is not designed to up grade non ARC research institution except as a result of research conducted for NARP. Only items that specifically relate to the work proposed for NARP should be included here.)

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MINISTRY OF AGRICULTURE
MINISTER'S OFFICE

It is clear that NARP will eventually upgrade via its approved projects both physical and human infrastructure in the different universities particularly in this program.

f - (The NARP project evaluation page 41/42).

Discusses whether the investigators appear to have scientific competency essential to complete the research (an appropriate statement should not be mentioned at all).

g - Page 34 request for out of country trips.

Third paragraph however approved for each trip must be given by the USAID director.

This element is a part of an approved project (NARP), it is an operational matter within this program and does not need reconsidering or any further approval.

h - Page 42 theoretical to be funded by NARP.

It should be clear from the beginning what should be considered theoretical or applied and where you can draw a line between the two and/or what is the proportion needed between these two main lines of research for an effective research program which is supposed to be supplementary to the ongoing program to the ARC.

3. Consolidated Proposal:

It should be considered as an integrated project with specific national interest which will have an impact on the increase of agriculture productivity. Therefore, there is no need to have 6-10 principal investigators for each university working with one coordinator. What is needed is to assign group leaders based on a specific scientific topic and/or a commodity under this integrated project.

The research group leader will work with the coordinator to fulfill the object of this national integrated project.

ARAB REPUBLIC OF EGYPT
MINISTRY OF AGRICULTURE
MINISTER'S OFFICE

Therefore this integrated project should be written as one document and submitted via the coordinator.

A letter could be issued to the dean of the college to inform them about the project segments and the personnel involved in this particular college.

4. The following statement in the document spell out as fact:

- Due to limitations of grant funds:
 - a) The bulk of funds will be for operational costs.
 - b) Limited amounts will be available to cover specialized equipment.
 - c) Out of country visits or short term training.
 - d) Out of country consultants.

It is inappropriate to state that a limited amount will be available to cover special equipment and the bulk of the fund will be for operational cost.

Instead, a simple statement explaining that funds will be available for operational cost and the specialized equipment is sufficient.

The proportion of distributed funds should be left for the scientific evaluation of each proposal according to availability of suitable equipment to perform a needy piece of research and/or the availability and hence the need to purchase this particular piece of equipment.

5. As for the Section on Program and Budget Questions and Answers (10 December, 1987).

All these questions could be classified under a number of categories.

It is apparent that there is a confusion and scientists from several universities were unable to acquire a clear picture for the research grant program.

- This conclusion indicate a lack of clarity of what was offered and distributed on paper for the reasearch workers. A clear frame work should be developed.

cc. H.E. Prof. Dr. Yehia Hassan.
cc. Prof. Dr. Ahmed Montaz.
cc. Dr. R. Witters.

ARAB REPUBLIC OF EGYPT
 MINISTRY OF AGRICULTURE
 MINISTER'S OFFICE

اولاً موضوع استصلاح الاراضي

Proposed Land Reclamation and Plant-Soil-Water
 Management for New lands

296 SW 11 المركز القومي للبحوث	Soil Reclamation and Irrigation Management for Optimum Crop Production Production Under Limited Water Supply.	Full Proposal
190 RO 17 كفر الشيخ	Improving Agricultural Production in Salt Affected Soils in Kafr El-Sheikh and Gharbia Governorates.	Full Proposal
71 SW 22 عين شمس	Alternative Irrigation Systems That Reduce Irrigation Water and Fertilizers Needs.	Full Proposal
114 SW 25 زراعة السامرة	Soil and Water Management Optimization for High Crop Yield Sandy Soils.	Full Proposal
151 SW 14 معهد الصحراء	Improvement and Management of Sandy and Salt Affected Soils.	Consolidated in 151
331 SW 2 الزقازيق	Efficient Irrigation Systems in Sandy Soils	Consolidated in 151
80 ME 18 عين شمس	Study of Chemical Application Through Mechanized Irrigation Systems.	Full Proposal
58 ME 19 عين شمس	Simple Bubbler Irrigation System for Soil and Water Management.	Full Proposal
54 SW 19	Improved Physical and Chemical Properties of Newly Reclaimed Lands.	Consolidated in 114
158 SW 13 معهد الصحراء	Soil Reclamation and Irrigation Management for Optimum Crop Production Under Limited Water Supply.	Consolidated in 151-

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157 SW 12	Use of Drainage Water for Irrigation	Consolidated in 151
159 SW 15	Planning, Execution and Implementation of Agricultural Projects on Salt Affected Soils.	Consolidated in 151
143 SW 19 الجامعة الأمريكية	Alternative Irrigation Farming Systems in the South Tahrer Area.	Consolidated in 143
144 SW 19 الجامعة الأمريكية	Alternative Preservation Systems for Fodder Crops Under Irrigated Desert Conditions.	"
145 RO 10 الجامعة الأمريكية	Development of Optional Cropping Pattern for Irrigated Desert Farming.	"
146 RO 10 الجامعة الأمريكية	Alternative Agro-industrial Cropping	"
147 SW 8 الجامعة الأمريكية	Alternative Agro-forestry Systems for Irrigated Desert farming.	"
148 SW 10 الجامعة الأمريكية	Management of Irrigated Sandy Soils Through Optimization of Soil/Water/ Plant/Animal/Energy Relation in Egypt.	"

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الموضوعات المذكورة اعلاه مترابطة وتتعلق جميعها بإستصلاح الاراضى ودراسة إنتاجية البيئة الصحراوية البروية وهو موضوع قوسى ويحتاج لتسيق على مستوى خطورة هذا الموضوع بالنسبة للتجبة الزراعية فى مصر. كذلك فإن هناك اكثر من موضوع متكرر. وهذا الموضوع يمكن تقسيمه إلى:

- (1) مشاكل الملوحة: وتضم ارقام ١٩٠ - ١٥١ - ١٥٧ - ١٥٩ - ٥٤.
- (2) مشاكل نظم الري للمناطق الجديدة: وتضم ارقام ٢٩٦ - ٧١ - ١١٤ - ٢٢١ - ٨٠ - ١٥٨ - ١٤٢ - ٥٨ - ١٤٤ - ١٤٥ - ١٤٦ - ١٤٧.
- (3) الميكنة المناسبة للأراضى الصحراوية: وهى متداخلة فى الموضوعات السابقة ويمكن ضمها للموضوعين السابقين تحت موضوع.

(4) النمط الزراعى فى ظروف الاراضى الصحراوية البروية: وهى أيضاً متداخلة فى الموضوعين الاولين ويمكن اعتبارها تحت موضوعات.

ثانياً: تقدمت جامعة الأزهر بمقترح مشروع رقم ١٨ (ME4) عن النظم الالية لبيجر السكر للمزارع الصغيرة تحت نظم الري بالرش المحورى فى منطقة النوبارية. وهو يمكن ضمه إلى المشروع رقم ٢٠١ (Rc 7C) والذي قد تم ضمه إلى موضوعات تتعلق كلها بالأعلاف.

ثالثاً: المشروع رقم ١٢٨ (ME14) مقدم من كلية الهندسة جامعة القاهرة وهو خاص بالتحكم الالى فى الصوب وقد تمت الموافقة على تمويله كمشروع مستقل (Full Proposal) فى حين انه يمكن ضمه إلى مشروع الزراعة المحمية رقم Ho 33T.

رابعاً: المشروع رقم ٢٩٢ تم ضمه إلى المشروع Ho 35T ورغم انه يتعلق بتحسين ابحاث الثوم إلا أنه قد وضع ضمن مشاريع تتعلق كلها بموضوع Computer Modelling.

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MINISTRY OF AGRICULTURE & LAND RECLAMATION

NATIONAL AGRICULTURAL RESEARCH PROJECT

9 GAMAA STREET, GIZA

Tel. 731574

Telex: 20332 FCRI UN

جمهورية مصر العربية
وزارة الزراعة واستصلاح الأراضي

مركز البحوث الزراعية

9 شارع الجماعية - الجيزة

تليفون

FCRI UN 731574

ANNEX VII

Initial Notification of Funding

A. Covering Letter To Senior Officials

August 1, 1988

To Faculty Deans and Equivalent Administrative Officials

I am pleased to report that we now are ready to begin implementation of the NARP Research Grants Program. We will start with proposals grouped under the subject matter area of Field Crops. This group includes about a fifth of the total proposals recommended for funding and, of course, is urgent since winter crops must soon be planted. Implementation for remaining proposals recommended for funding will take place as rapidly as feasible.

A computer printout for your institution showing funded proposals (Full Proposal, Integrated or Integrated With ARC) for the Field Crop group is attached. This list includes both Coordinators and Principal Investigators. These members of your staff should attend a meeting starting at 11 a.m. on Monday, August 15, in the auditorium of the EMCIP Building, ARC, Giza. General procedures under the NARP Research Grants Program will be discussed. Later in the day, Principal Investigators for each Integrated Group will meet with their Coordinator to agree on the scope of work for each included proposal and to recommend any needed changes in proposal titles to clearly delineate the research to be conducted.

I am writing each of the involved staff individually to inform them of this important meeting.

Need to appoint an Institutional Contact Person

Each Dean or equivalent official should appoint one contact person for the NARP Research Grants Program activities in their institution. This contact person should be easily reached by phone and have a secretary who can reliably take messages if they are out of the office. They will arrange for visits by NARP staff to the institution and facilitate other types of NARP-researcher contacts. They should maintain a list of all research funded by NARP at their institution and of two or more senior staff who could be contacted in relation to any given research activity. This

person will be called an Institutional Contact Person for NARP research grants. Twenty percent of all authorized E.E. grant expenditures for research conducted by Departments at their institution will be provided to cover indirect costs of the involved Faculty or equivalent administrative body. Indirect costs will be reimbursed on each Expenditure Invoice submitted, calculated at the 20% rate on direct costs (line items I to VII).

Please fill out the attached form C to designate this person at your institution and return five copies to Dr. Ahmed Momtaz, Director General, NARP, ARC, GIZA.

Need to appoint accounting staff

Receipts for all NARP research conducted by Principal Investigators located at your institution must be assembled by your staff for monthly delivery to the NARP Executive Office. At that time, a cheque will be provided to cover operations in a later month. These new funds then must be distributed promptly to the involved Principal Investigators.

I recommend that the Institutional Contact person attend the meeting on August 15. You, of course, are also welcome to attend if time permits.

We look forward to working with your staff on this important part of the overall NARP project.

Sincerely yours,

Dr. Ahmed Momtaz,
NARP Director General

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NATIONAL AGRICULTURAL RESEARCH PROJECT

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وزارة الزراعة واستصلاح الأراضي

مشروع الأبحاث الزراعية

الجامعة - الجيزة

FCRI UN

FCRI UN 20332

B. Letter To Funded Principal Investigators

August 1, 1988

To Principal Investigators who submitted research proposals or research topics relating to Field Crops under the NARP Research Grants Program that have been chosen for funding.

I am pleased to report that your proposal or research topic has been selected for funding. We will start with proposals grouped under the subject matter area of Field Crops. This group includes about a fifth of the total proposals recommended for funding and, of course, is urgent since winter crops must soon be planted. Implementation for remaining proposals recommended for funding will take place as rapidly as feasible.

An attached computer printout gives the status for your proposal (Full Proposal, Integrated or Integrated With ARC) and indicates whether you are a Coordinator for an Integrated Project or a Principal Investigator. In either case, you should attend a meeting starting at 11 a.m. on Monday, August 15, in the auditorium of the EMCIP Building, ARC, Giza. General procedures under the NARP Research Grants Program will be discussed. Later in the day, Principal Investigators for each Integrated Group will meet with their Coordinator to agree on the scope of work for each included proposal and to recommend any needed changes in proposal titles to clearly delineate the research to be conducted.

Please be sure to obtain a copy of a new NARP publication entitled *Procedures for Grant Research Under NARP at Egyptian Research Institutions*, which will be available at the August 15 meeting. Careful reading will assist you greatly in making any needed budget revisions.

We look forward to working with you and your research associates on this important part of the overall NARP project.

Sincerely yours,

Dr. Ahmed Momtaz,
Director General

ANNEX VIII

NARP INSTITUTIONAL STRENGTHENING GRANT AGREEMENT

Agreement No. _____ Date _____

This agreement is between:

NARP (1st party)

Represented by : NARP Project Director General

Address : Ministry of Agriculture and Land
Reclamation, Giza, Egypt.

Research Institution (2nd party): _____

Address: _____

The following aspects are covered by this agreement:

I. RESEARCH UNDERWAY

Research conducted at this institution under the NARP Research Grants Program.

Proposal No.	Highest Level Researcher	Department	Termination Date
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II. ITEMS TO BE PURCHASED

- A. Equipment and farm machinery to be purchased by NARP (including spare parts for these and USA-manufactured items bought under prior projects) for use by the above proposals. At the successful completion of each proposal, these items will become the property of the 2nd party to this agreement¹. Detailed equipment specifications are in the project proposal.
- B. Expendable supplies not available in Egypt.

Proposal No.	Item to be Purchased	Estimated Cost (USD)		Expected Delivery or Installation Date
		In Country of Origin	Additional for Delivery To Egypt	
<hr/>				

III. OPERATION AND MAINTENANCE AGREEMENT

Agreement by the 2nd party with respect to operation and maintenance of items shown under II. A. above: Funds for maintenance and repair of the items listed under II. A. above are included as part of the operational budget of each proposal for the duration of that proposal under the NARP Research Grants Program. Any operational training needs also have been specified and approved. Following the successful completion of terms of each NARP proposal, the institution agrees to provide maintenance and repair for these items during their remaining useful life and to make sure that trained staff as needed are available to operate them.

¹ If more than one proposal number is shown, they will share in its use. The transfer date to the institution would be the latest of the involved termination dates.

IV. OUT-OF-COUNTRY TRAVEL

Approved funding for training in or trips to the USA (or other countries if USAID waivers are approved) for researchers who will take part in the above NARP-funded proposals. The individuals proposed must meet Egyptian and USAID requirements. If these requirements cannot be met, other personnel involved on the proposal will be nominated. Required documents will be provided by the NARP Training Unit.

Proposal No.	Type of Training or Purpose of Trip	Estimated USD Cost	Proposed Time Period
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WE HEREBY ACCEPT THE TERMS AND CONDITIONS OF THIS AGREEMENT:

NARP

Cooperating Research Institution

NARP Director General

Senior Official

Title

DISTRIBUTION

NO.

6	Dr. Ahmed Momtaz	Director General, NARP, Director ARC
1	Dr. Yehia Hassan	Chairman, Foreign Agricultural Projects Committee
1	Dr. Abdel Salam Gomaa	Deputy Director, ARC
1	Dr. Abdallah Nassib	Director, Field Crops Research Institute
1	Dr. Samir Moustafa	Director, Cotton Research Institute
1	Dr. Ahmed Nour	Director, Sugar Crops Research Institute
1	Dr. Kamla Mansour	Director, Horticulture Research Institute
1	Dr. Moustafa Hathout	Director, Animal Production Research Institute
1	Dr. Hosny El-Sawah	Director, Animal Health Research Institute
1	Dr. Sayed A. Salama	Director, Veterinary Serum & Vaccine Research Institute
1	Dr. M. Sabry Tawfik	Director, Animal Reproduction Research Institute
1	Dr. Ahmed El-Sahrigi	Director, Agricultural Mechanization Research Institute
1	Dr. N. El-Mowelhi	Director, Soils and Water Research Institute
1	Dr. Mouktar Sattour	Director, Plant Pathology Research Institute
1	Eng. Ahmed Khattab	Director, Plant Protection Research Institute
1	Dr. Osman El-Kholi	Supervisor, Agricultural Economics Research Institute
1	Dr. M. Safie Salama	Director, Agricultural Extension and Rural Development Research Institute
1	Dr. Zakaria El-Attal	Director, Central Agricultural Pesticides Laboratory
1	Dr. Ahmed Abdel Halim	Director, Central Laboratory for Statistics
1	Dr. Akila Salleh	Director, Central Laboratory for Food and Feed
1	Dr. Ismail Darrag	Head, Central Administration for Agricultural Research Stations
1	Eng. Ali Nashaat	Secretary General, ARC
1	Dr. Abdurabbo Ismail	Researcher, FCRI, ARC.
1	Dr. Alaa Eldin Z. Bondok	Head, Central Administration for Minister's Office for Agriculture, MOA
1	Dr. Adel El-Beltagi	Head, Central Administration for Minister's Office for Land Reclamation, MOLR
1	Acc. Kamal Reda	Head, Financial and Administrative Affairs Sector, MOA
1	Eng. Adel Ezzi	Chairman, Agriculture Development and Credit Bank
1	Dr. Yassin Osman	Head, Central Administration for Pest Control, MOA
1	Eng. Mohamed Dessouki	Head, Production Sector, MOA

1	Dr. A. Moneim Barakat	Head, Central Administration for Animal Health, MOA
1	Eng. Mahmoud Nour	Supervisor, Central Administration for Planning, MOA
1	Eng. Abdel-Razik Badawy	Head, General Organization and Land Reclamation
1	Eng. Fouad Abo-Hedb	Chairman, West Nubaria Company
1	Dr. Ibrahim Antar	NARC Member
1	Dr. Ahmed Abdel-Rahim	Technical Trusteeship for Research Institutes, ARC
1	Dr. Mahmoud El-Barkouki	NARC Member
1	Dr. Bakir Oteifa	Chairman, Grants Program Working Group
1	Eng. Aly Salem	Chairman, Construction Working Group
1	Dr. Hassan Khedr	Chairman, Data Collection Working Group
1	Dr. Yeldez M. Ishaq	NARP News
1	Dr. Mohsen El-Didi	NARP News
1	Eng. Aly Abo-Gazia	Chairman, Horticulture Crops Exporters Union
1	Eng. Mohamed El-Akad	Head, Cotton Physiology Research Section CIR and member of TTR, ARC
1	Dr. Adel Abo-El-Naga	Deputy Director APRI, and member of TTR, ARC
1	Dr. Mohsein El-Gindy	Senior Researcher, Pesticides Central Lab, ARC, and member of TTR, ARC
1	Dr. Rashad Abo-El-Enein	Deputy Director FCRI and member of TTR, ARC
1	Mr. Cory Wengreen	Administrative Services Advisor
1	Dr. Willis McCuiston	Interdisciplinary Research Advisor
1	Dr. Ralph Finkner	Research Station Management Advisor
1	Dr. Gordon Beckstrand	Deputy Chief of Party/On-Farm Research and Demonstration Advisor
1	Dr. Amir Khan	Agricultural Mechanization Advisor
1	Dr. Robert Harwood	Integrated Crop Protection Advisor
1	Dr. Bill Gregg	Seed Technology Advisor
1	Prof. Richard Foote	Research Studies Coordinator
1	Dr. Susan Emerson	Library and Information Services Advisor
1	Ms. Coleen Brown	Deputy Chief of Party/Training and Man-power Development Advisor
6	Ed Stains	Project Officer USAID/NARP
2	Dr. H. Matteson	Project Director, NMSU/CID/NARP
2	Dr. Earl Kellogg	Executive Director, CID
20	ARC Libraries	Director General Office

PUBLICATIONS

<u>PUBLICATION TITLE</u>	<u>PUBLICATION NO.</u>
- <u>Quarterly Report</u> (November - December, 1986)	1
- <u>Quarterly Report</u> (January - March, 1987)	2
- <u>Implementation Workshop - Proceedings</u> (February 9 - 17, 1987)	3
- <u>Quarterly Report</u> (April - June, 1987)	4
- <u>Life of Project Plan</u> (September, 1987)	5
- <u>Implementation and Financial Plan, Fiscal Year 1987-1988</u> (September, 1987)	6
- <u>Manual for Grant Research Under NARP</u> (October, 1987)	7
- <u>Manpower Development & Training Plan</u> (November, 1987).....	8
- <u>Quarterly Report</u> (July - September, 1987).....	9
- <u>Annual Report - 1987</u> (May, 1988)	10
- <u>Implementation & Financial Plan FY 1988-1989</u> (August, 1988)	11
- <u>List of Approved Proposals Under the Research Support System</u> (December, 1988)	12
- <u>Work Plan for the NARP Research Grants Program</u> Part A: For Non-ARC Agricultural Research Institutions in Egypt (December, 1988)	13