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EGYPTIAN AGRICULTURAL MECHANIZATION PROJECT

Contract Number 253-0031-HHC-01

ACTIVITY REPORT NUMBER 16

December 1, 1984 - March 31, 1985

Submitted by

LOUIS BERGER INTERNATIONAL, INC.

100 Halsted Street
East Orange, New Jersey 07019

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1.0 SUMMARY

Emphasis changed slightly during this quarter because of the reduced farming activity at this time of year: The Project emphasized commodity processing and forward planning for the coming season. New stateside commodity procurement in-process is as follows:

IFB No.:	Description:	Value (\$): (estimated)
85-04	Training/demonstration	2,328,000
85-05	Mobile workshops	1,200,000
85-06	Institute computer equipment	224,350
85-07	Institute laboratory equipment	215,814
85-08	Institute shop equipment	194,772
85-09	Institute mfg. prototype equipment	327,828
Total		4,490,764

IFB's 85-06 - 85-09 directly support the Agricultural Mechanization Research Institute, which is a critical part of the institutionalization mandate of the Project.

To support the introduction of the equipment now arriving, the extension/training unit held intensive field training seminars for the mechanization extension specialists. This hands-on approach involved 15 different machines.

At the end of this quarter, 90 percent of the Project funds were in the outgoing/expended category while 70 percent of the funds were expended and committed by contract: Of these monies 60 percent was physically expended.

Of the Grant Agreement funding, 7.6 percent are funds that are still available, assuming that the currently outgoing monies are processed.

The technical level of effort to date shows 589 man-months expended, as compared to 590 man-months anticipated. This is based upon the contract, Inception Report projections, subsequent Project action and contract amendments.

Credit fund status is as follows: 1) If the PBDAC processes all existing applicants, the Service Center Fund will be oversubscribed by 23 percent. And if all applicants under review by the Project are successfully processed, the fund will be oversubscribed by 63 percent; 2) The original Waterlifting Fund has now been increased from \$2.0 to \$4.0 million with 94 percent of this new fund amount expended; and 3) The Machine Introduction Fund is now 66 percent expended compared to 48 percent last quarter.

The Planning and Evaluation unit completed Working Paper No. 19: "Socio-economic Evaluation of Farm Machinery Introduced in Project Villages, 1980 - 1984". The purpose of this paper is to provide a framework for agricultural mechanization planning through actual case studies from Project experience. The eval-

uated equipment included: a self-propelled combine, silage mower, cotton tillage equipment, all-crop thresher-winnower, irrigation pumps, mower-binder, and grain drill.

Briefly, other activity highlights were:

1. Research and Development

During this period, the In-house research committee developed a plan of research activities for 1985:

- a. The effect of mechanical picking on long-staple Egyptian cotton.
- b. Yield-effect of planting method on long-staple Egyptian cotton.
- c. The optimum date for cotton defoliation.
- d. The effect of different planting methods on maize.
- e. The evaluation of different planting and harvesting systems of rice under Egyptian conditions.

In addition, several prototype activities are planned:

- a. Finalize the locally manufactured potato planter.
- b. Develop a three-furrower attachment for the potato planter.
- c. Install the village solar drier on a concrete pad at the Center and make the necessary electrical connections.

2. Planning/Evaluation

In preparation, Working Paper No. 20: "Resource Allocation Efficiency in Egyptian Agriculture with Implications for Agricultural Mechanization": Using a Cobb-Douglas production function, this paper evaluates production inputs of the major crops and their optimization.

3. Extension/Training

- a. Completed and sent to USAID the 1985 training plan.
- b. During this quarter, 480 trainees attended 35 new and on-going training center programs.
- c. This quarter six academic and six technical trainees attended eight continuing academic programs as a part of the stateside Participant Training activities: 1) Technical training: service centers (4) and farm management (2). 2) Academic training: agricultural economics (3), agricultural production (1), soil science (1), and agricultural education (1).

4. Service Center/Village Workshop Subproject

- a. Of the total fund (\$5,000,000), 60 percent is in the expended/committed category while 65 percent of the total fund is under review at the governate banks.
- b. If all commitments and funds in-process at the banks are approved, the Fund would be overdrawn by \$1,276,509. If those loans in process at the Project level are also included, the Fund would be overdrawn by \$3,164,254.
- c. This represents a total Project involvement with 124 village workshops and 17 area service centers.

5. Land Improvement Subproject

The landleveling demonstration program added another 1,079 feddans during this quarter bringing the total to 3,929 since activity started in 1983. This is summarized as below:

Period	Minia	Beni Suef	Fayoum
1983			
1st Quarter	45	-	-
2nd Quarter	204	-	-
3rd Quarter	165	-	-
4th quarter	298	-	-
Subtotal	712	-	-
1984			
1st Quarter	110	-	-
2nd Quarter	310	-	-
3rd Quarter	269	15	-
4th quarter	944	375	115
Subtotal	1,633	390	115
1985			
1st Quarter	492	270	317
TOTAL	2,837	660	432
OVERALL	3,929		

Implementation issues: Implementation issues have not been significantly different this quarter so are omitted for this reporting period.

2.0 PROJECT ACCOMPLISHMENTS

2.1 Planning and Evaluation

1. CORRECTION: Working Paper No. 16: "Socioeconomic and Technical Evaluation of Silage Mower Use in Project Villages".

The economic evaluation in the last activity report (Activity Report 15) and, in the paper itself, erroneously stated the following:

- a. A roller-guage was added to the mower bar which resulted in an improved financial IRR of 59 percent, and
- b. Improved mangement practises resulted in an improved social IRR of over 14 percent while the financial IRR increased to 60 percent.

The Project did not make a change in the mower: It was only speculated that, if these changes were made, this might be the result.

2. Working Paper No. 19: "Socio-economic Evaluation of Farm Machinery Introduced in Project Villages, 1980 - 1984" was published. The purpose of this paper is to provide a framework for agricultural mechanization planning through actual case studies from Project experience.
 - a. The evaluated equipment included: a self-propelled combine, silage mower, cotton tillage equipment, all-crop thresher-winner, irrigation pumps, mower-binder, and grain drill.
 - b. Evaluation criteria consisted of: 1) on-farm and social rates of return exceeding 15 percent, 2) technically feasible and acceptable within the existing farming system, 3) culturally acceptable.
 - c. Without modification, the grain drill used in wheat, the all-purpose thresher, and cotton tillage equipment meet these criteria. Although the other equipment did not meet these criteria, future modification of these machines may make them acceptable.
3. Working Paper No. 20: "Resource Allocation Efficiency in Egyptian Agriculture with Implications for Agricultural Mechanization" was under preparation: It analyzes farmer behavior to resource allocation through a Cobb-Douglas production function analysis of production inputs of the major crops.
4. Agricultural Development Systems conference, March 18-21: The Planning and Evaluation unit presented a paper describing the Project's approach to mechanization through an integrated farming systems program oriented to production bottlenecks.
5. Prepared cash needs statement and expenditure report for Pro-

ject funds, and with the Extension unit, participated in procurement including Project invitation to bid documents.

2.2 Research and Development Subproject

1. During this period, the In-house research committee developed a plan of research activities for 1985:
 - a. The effect of mechanical picking on long-staple Egyptian cotton.
 - b. Yield-effect of planting method on long-staple Egyptian cotton.
 - c. The optimum date for cotton defoliation.
 - d. The effect of different planting methods on maize.
 - e. The evaluation of different planting and harvesting systems of rice under Egyptian conditions.
2. Several prototype activities are planned:
 - a. Finalize the locally manufactured potato planter and send to the University of Alexandria.
 - b. Develop three furrowers for the above potato planter.
 - c. Install the solar drier on a concrete pad at the Center and make the necessary electrical connections.

2.3 Extension/Training Subproject

2.3.1 Overall Activities

1. Equipment procurement: stateside
 - a. IFB 83/02: Bid value: \$3.564 million representing 380 units; 130 (35%) units are at field sites; 98 (27%) units have been cleared for delivery; and the remaining 152 (38%) are awaiting local dealer assembly representing crop-specific equipment. Procurement is arriving at Alexandria.
 - b. IFB 83/03: Bid value: \$0.5 million representing crop-specific demonstration/training equipment. Procurement is arriving at Alexandria.
2. New procurement: stateside training equipment:
 - a. IFB 85-04: Demonstration/training equipment: estimated value, \$2.328 million. USAID returned specifications for MOA procurement committee approval before USAID processing.
 - b. IFB 85-05: Mobile workshops, estimated value \$1.2 million. MOA procurement committee reviewing specifications.

- c. IFB 85-06: Computer equipment for the Agricultural Mechanization Research Institute: estimated value, \$224,350. Approved by the Project's technical committee and now under review by the MOA procurement committee.
 - d. IFB 85-07: Laboratory equipment for the Agricultural Mechanization Research Institute: estimated value, \$215,814. Under review by the Project's technical committee.
 - e. IFB 85-08: Shop equipment for the Agricultural Mechanization Research Institute: estimated value, \$194,772. Under review by the Project's technical committee.
 - f. IFB 85-09: Manufacturing equipment for the Agricultural Mechanization Research Institute: estimated value, \$327,828. Under review by the Project's technical committee.
3. Equipment procurement: local
- a. Group B: Gabel Asfar parts still pending.
 - b. Group 11: research, demonstration/training equipment -- Most of this equipment has been delivered.
 - c. 85/01A - 07: In-process with the Project's technical committee.
 - d. IFB 02: In-process with the Project's technical committee.

2.3.2 Extension Unit

1. Field activities stopped from January to mid-February and then resumed with seedbed preparation and some cotton planting in March.
2. A central focus of activities was processing the extension and training equipment that is arriving.
3. To support the field effort, intensive training sessions were held in Shiek Ahmed for the Project's machinery extension specialists relative to the above equipment. Fifteen machine types were used for this training.
4. A major priority was given to equipment specifications for IFB procurement to support the Institute's basic research equipment needs: computer equipment, laboratory equipment, shop equipment, and manufacturing prototype equipment.
5. The equipment maintenance unit concentrated on clearing and allocation of equipment to Project sites, and development of a spare parts plan for the Alexandria station.

2.3.3 Training Unit

1. Completed and sent to USAID the 1985 training plan.
2. During this quarter, 480 trainees attended 35 new and on-going training center programs, which included:
 - a. tractor operation
 - b. welding
 - c. mechanics I, II, III
 - d. agricultural machinery design
 - e. rice mechanization
 - f. key farmer training
 - g. agricultural machinery operation
 - h. farm structures
 - i. credit for mechanization
 - j. computer operation
 - g. English language
3. This quarter six academic and six technical trainees attended eight continuing academic programs as a part of the stateside Participant Training activities:
 - a. Technical training: service centers (4) and farm management (2).
 - b. Academic training: agricultural economics (3), agricultural production (1), soil science (1), and agricultural education (1).

2.3.4 Demonstration/Training Unit

1. During this period , the Demonstration/Training unit continued its activities in two locations: Gabel Asfar and Fayoum.
2. And added a second research station at Fayoum, Kom Hessim.

2.4 Service Center/Village Workshop Subproject

Table 2.1 summarizes the status of the Service CenterVillage Workshop Fund:

1. Of the total fund (\$5,000,000), 60 percent is in the expended-/committed category.
2. Sixty-five percent of the total fund is under review by the banks.
3. If all commitments and funds in-process at the banks are approved, the Fund would be overdrawn by \$1,274,216. If those! loans in process at the Project level are also included, the Fund would be overdrawn by \$3,164,254.

TABLE 2.1 SERVICE CENTER/VILLAGE WORKSHOP LOANS IN-PROCESS AT GOVERNATE BANKS AND AT THE PROJECT LEVEL, 3/31/85.

CATEGORY	UNITS	EXPENDED	COMMITTED	LOAN VALUE
A.COMMITTED/EXPENDED				
1.SERVICE CENTERS	7	751790	876810	1628600
2.VILLAGE WORKSHOPS	38	773938	94409	868347
3.SUBTOTAL (LE)	45	1525728	971219	2496947
B.LOANS IN-PROCESS AT THE BANKS				
1.SERVICE CENTERS	5			642000
2.VILLAGE WORKSHOPS	71			2081100
3.SUBTOTAL (LE)	76	0	0	2723100
C.LOANS IN-PROCESS AT THE PROJECT				
1.SERVICE CENTERS	2			1175000
2.VILLAGE WORKSHOPS	14			395000
3.SUBTOTAL (LE)	16	0	0	1570000
D.LOAN ACTIVITY				
1.SERVICE CENTERS	14			3445600
2.VILLAGE WORKSHOPS	123			3344447
3.OVERALL TOTAL (LE)	137	1525728	971219	6790047
(US\$ EQUIVALENT)	.83168	1834513	1167780	8164254

4. This represents a total Project involvement with 123 village workshops and 17 area service centers.

2.5 Land Improvement Subproject

1. Demonstration program: During this quarter, the demonstration program was performed on an ad hoc basis leveling 1,079 feddans in three governates, Minia, Beni Suef, and Fayoum. The areas landlevelled by operating units were:

Table 2.2. Area landlevelled from January 1 - March 31, 1985.

<u>Location</u>	<u>Feddans</u>
Minia Governate:	
a. Unit 1 - Southern Minia	208
b. Unit 2 - Northern Minia	145
c. Unit 3 - Northern Minia	139

e. Subtotal	492
Beni Suef Governate:	
a. Unit 4 - Southern Beni Suef	130
b. Unit 5 - Northern Beni Suef	140

e. Subtotal	270
Fayoum Governate:	
a. Unit 6 - El Fayoum	140

e. Subtotal	140
TOTAL	1,079

2. Field units continued to be operated in smaller operating units as follows:

Table 2.3. Distribution of land improvement subproject equipment - March, 1985.

<u>Location and Unit Number</u>	<u>Levelling Units</u>	<u>Tractor/Plow</u>	<u>Tractor/Misc.</u>
Minia Governate:			
Unit 1	5	2	0
Unit 2	4	1	0
Unit 3	3	0	1*
Subtotal	12	3	1
Beni Suef Governate:			
Unit 4	4	1	0
Unit 5	3	0	2**
Subtotal	7	1	2
Fayoum Governate:			
Unit 6	4	1	0
Total	23	5	3

* with backhoe

** with subsoiler

3. As a result of this units activity, the seasonal nature of landleveling in Middle Egypt indicates: 1) the major time for landlevelling is during the second and fourth quarters, which follows the harvest of winter and summer crops, respectively; 2) the third quarter with late planting of maize and the early harvest of soybeans is also an appropriate landlevelling time.
4. Originally, LISP had estimated a productivity of 13,200 feddans per year with 22 tractor/landleveling units working in Middle Egypt. However, fourth quarter (1984) productivity indicates 8,000 feddans per year, or 60 - 65% of the previous estimate, is obtainable.
5. There is room for improvement with mangement: improved planning, improved extension coordination and communications with the farmers, improved field staff training, and improved maintenance capabilities.
6. Also, closer adherence to the established standards (+ or - 2 cm variation from 80% of the rod readings in a field) will improve productivity where it is needed, because up to 40% of the leveled areas in Beni Suef already met this criteria.

2.6 Local Manufacturing Program

The expatriate part of this program terminated on February 1, 1985 so that the principal activity was tying the loose ends and preparing a final summary of the program. However, the Egyptian participation has continued as follows:

1. Fifteen manufacturing prototype threshers are in process: five at Beheira Co., five at the Iron and Steel Co., and five at Military Factory 999.
2. Blueprints completed for the potato planter, rototiller, and modified chisel plow.
3. At the Institute's Alexandria center, four potato planter prototypes, one rototiller prototype, and three modified chisel plow prototypes were completed.

3.0 FINANCIAL AND TECHNICAL LEVEL OF EFFORT

3.1 Financial Level of Effort

This section includes the following two financial analyses: 1) a summary of the Project's expenditure position (table 3.1), and 2) an analysis of the Grant Agreement funds that have not been brought into the Project and cash available (table 3.2).

The definition of money flows in table 3.1 are as follows:

1. Grant Agreement (column 1): Total Grant Agreement line item funding, as may be amended.
2. Line Item Balance (column 2): Uncommitted line item funds: Under Foreign Currency, this equates to uncommitted Grant Agreement funding; but within Local Currency, this may consist of available cash in addition to Grant Agreement funding (table 3.2).
3. Funds In-coming/Available (column 3): Funds coming into the Project from USAID and/or cash on-hand, except for the technical assistance line item, which is considered as committed funding.
4. Outgoing Funds (column 4): Funds in the review/ expenditure process either by USAID, MOA, or PBDAC.
5. Funds Committed (column 5): Funds committed by contract or bid award.
6. Outgoing Pipeline (column 6): All funds on the outgoing side of the pipeline, columns 4 plus 5.
7. Funds Expended (column 7): Funds physically expended.
8. Outgoing Pipeline/Expended (column 8): The summation of outgoing and expended funds, columns 6 plus 7. This category equates to the Project's overall expenditure activities.

At the end of this quarter, 90 percent of the Project funds were on the outgoing pipeline/expended category while 70 percent of the funds were expended and committed. Compared to the last quarter, the Project increased its expended/committed level from 67 percent to 70 percent. And the outgoing pipeline/expended category increased from 87 percent to 90 percent.

Table 3.2 analyzes the uncommitted "line item balance" of \$4,159,266 in table 3.1. This represents almost 10 percent of the Grant Agreement funding of which 7.6 percent are monies from the Grant Agreement itself that remain to be brought into the Project, assuming that line item deficits are covered by transfers, while nearly 3.5 percent is available cash. The conclusion is that monies from slower moving line items should be transferred to the faster moving line items. For example, excess foreign

currency training funds might be reallocated to foreign currency research support. This was noted in the last report and action was requested from USAID to affect reallocation.

3.2 Technical Assistance Level of Effort

Table 3.3 compares the actual level of effort (column 2) with the projected level of effort (column 3) and the contract effort (column 4). The projected and contract effort are based upon the Inception Report, subsequent Project action and contract amendments. The technical effort to date shows 589 man-months expended as compared to 590 man-months anticipated. During this period, the local manufacturing advisor's position expired as scheduled.

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TABLE 3.1. FINANCIAL LEVEL OF EFFORT: FOREIGN AND LOCAL CURRENCIES FROM
15 SEPTEMBER 1980 - 31 MARCH 1985, IN US DOLLARS.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
LINE ITEMS	GRANT AGREEMENT	LINE ITEM BALANCE (1-8)	FUNDS IN-COMING/ AVAILABLE	OUTGOING (AID,MOA, PBOAC)	FUNDS COMMITTED	OUTGOING PIPELINE (4+5)	FUNDS EXPENDED	OUTGOING PIPELINE/ EXPENDED
A. FOREIGN CURRENCY								
1. TECHNICAL ASSISTANCE	6424000	468382	0	81981	910547	992528	4963090	5955618
2. COMMODITIES	9133000	31662	0	3659810	399125	4058935	5042403	9101338
3. TRAINING	2023000	1032355	0	160500	273534	434034	556611	990645
4. RESEARCH SUPPORT	1005000	674027	0	27000	0	27000	303973	330973
5. SPECIAL STUDIES/ EVALUATION	215000	121023	0	0	3363	3363	90614	93977
6. SUBTOTAL	18800000	2327449	0	3929291	1586569	5515860	10956691	16472551
B. LOCAL CURRENCY (US\$)								
1. TECHNICAL ASSISTANCE	2302000	587102	0	0	459318	459318	1255579	1714898
2. COMMODITIES	4000000	-521435	-191173	575558	512652	1088209	3433226	4521435
3. TRAINING	1000000	322658	232778	0	0	0	677342	677342
4. VEHICLE OP EXP	100000	4290	-21661	0	0	0	95710	95710
5. FACILITIES	70000	70000	0	0	0	0	0	0
6. CREDIT FUNDS								
A. SERVICE CENTER	5000000	-1276509	1665487	3274216	1167780	4441996	1834513	6276509
B. WATERLIFT	4000000	213242	213242	0	0	0	3786758	3786758
C. MACHINE INTRO	2000000	672832	672832	0	0	0	1327168	1327168
7. RESEARCH SUPPORT	2000000	1080800	149016	0	253680	253680	665520	919200
8. SPECIAL STUDIES/ EVALUATION	728000	678837	-7864	0	0	0	49163	49163
9. SUBTOTAL	21200000	1831817	2712658	3849774	2393429	6243203	13124980	19368183
C. PROJECT TOTAL	40000000	4159266	2712658	7779065	3979998	11759063	24081671	35840734
PERCENT COMMITTED/EXPENDED		10			10	29	60	90 70

TABLE 3.2 LINE ITEM BALANCE ANALYSIS: GRANT AGREEMENT AND AVAILABLE CASH, 31 MARCH 1985.

	CASH AVAILABLE			GRANT AGREEMENT			SUMMARY		
	(1) ON-HAND	(2) COMMITTED/ OUTGOING	(3) NET CASH	(4) INITIAL FUNDING	(5) DEMANDS AGAINST	(6) BALANCE	(7) CASH AVAILABLE	(8) GRANT AVAILABLE	(9) LINE ITEM BALANCE
A. FOREIGN CURRENCY									
1.TECH ASSISTANCE	0	0	0	6424000	5955618	468382	0	468382	468382
2.COMMODITIES	0	0	0	9133000	9101338	31662	0	31662	31662
3.TRAINING	0	0	0	2023000	990645	1032355	0	1032355	1032355
4.RESEARCH SUPPORT	0	0	0	1005000	330973	674027	0	674027	674027
5.SPECIAL STUDIES/ EVALUATION	0	0	0	215000	93977	121023	0	121023	121023
6.SUBTOTAL	0	0	0	18800000	16472551	2327449	0	2327449	2327449
B. LOCAL CURRENCY (US\$)									
1.TECH ASSISTANCE	0	0	0	2302000	1714898	587102	0	587102	587102
2.COMMODITIES	-191173	1088209	-1279383	4000000	3242052	757948	0	-521435	-521435
3.TRAINING	232778	0	232778	1000000	910120	89880	232778	89880	322658
4.VEHICLE OP EXP	-21661	0	-21661	100000	74049	25951	0	4290	4290
5.FACILITIES	0	0	0	70000	0	70000	0	70000	70000
6.CREDIT FUNDS									
A.SERVICE CENTER	1665487	4441996	-2776509	5000000	3500000	1500000	0	-1276509	-1276509
B.WATERLIFT	213242	0	213242	4000000	4000000	0	213242	0	213242
C.MACHINE INTRO	672832	0	672832	2000000	2000000	0	672832	0	672832
7.RESEARCH SUPPORT	149016	253680	-104663	2000000	814537	1185463	0	1080800	1080800
8.SPECIAL STUDIES/ EVALUATION	-7864	0	-7864	728000	41300	686700	0	678837	678837
9.SUBTOTAL	2712658	5783885	-3071227	21200000	16296956	4903044	1118852	712965	1831817
11.PROJECT TOTAL				40000000	32789507	-7230493	1118852	3040414	4159266
PERCENT					81.92	18.08	2.80	7.60	10.40

TABLE 3.3 LEVEL OF EFFORT: TECHNICAL STAFF FROM SEPTEMBER 15, 1980
THROUGH MARCH 31, 1984, IN MAN-MONTHS.

POSITION	(1) STARTING DATE DAY/MO/YR	(2) EFFORT TO DATE	(3) PROJECTED EFFORT	(4) CONTRACT EFFORT	(5) DIFFERENCE (2-3)
1. TEAM LEADER	4/10/80	54	54	60	0
2. PLANNING/FINANCIAL ADVISOR	9/15/80	54	54	60	0
3. RESEARCH DIRECTOR (TERMINATED: 1 JAN 84)	3/11/80	38	38	38	0
4. EVALUATION ADVISOR (TERMINATED: 7 JUN 84)	7/12/80	43	43	43	0
5. EXTENSION ADVISOR	4/2/81	39	39	42	0
6. FARM MANAGEMENT ADVISOR	15/4/81	36	36	36	0
7. SERVICE CENTER ADVISOR	9/4/81	48	48	48	0
8. EQUIPMENT ADVISOR	7/5/81	47	47	48	0
9. SOIL IMPROVEMENT ADVISOR	13/7/81	36	36	36	0
10. TRAINING ADVISOR	9/9/81	43	43	48	0
11. MACHINERY DEVELOPMENT ADVISOR (TERMINATED: 1 AUG 84)	5/1/82	20	20	20	0
12. LOCAL MANUFACTURING ADVISOR (EXPIRED: 2 FEB 85)	3/2/82	36	36	36	0
13. SI IRRIGATION ENGINEER	1/4/82	36	36	36	0
14. SENIOR ACCOUNTING ADVISOR	1/11/82	25	26	36	-1
15. SHORT-TERM TECHNICAL ASSISTANCE		34	34	36	0
TOTAL		589	590	623	-1

ANNEX A

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PLANNING AND EVALUATION UNIT

Quarterly Report: January-March, 1985
Prepared by : Dr. Steven C. Shepley.
Eng. Mohamed Shoukry
Eng. Mohamed Ismail

Summary:

The major emphasis during the period was given to preparation of some of the Unit's most important analytical reports. As required by the Terms of Reference and the Inception Report, the Planning and Evaluation Unit's major output is a comprehensive socio-economic evaluation of mechanized technologies. Two technical papers prepared during the reporting period provided this output. The first of these, Socio-Economic Evaluation of Farm Machinery Introduced in Project Villages from 1980 to December 1984 (Working Paper No.19) provided an in-depth analysis of various socio-economic factors affecting the adoption process and measured the edgreeof technical, economic, and social suitability of these technologies to the Egyptian farming system.

A second paper, Agricultural Mechanization Planning and Evaluation System: A Socio-Economic Approach was prepared for an presented to the Agricultural Development Systems Project Conference held on March 18-21, 1985. The emphasis of this paper was to present the interative mechanization planning and evaluation system based on a farming systems approach and to illustrate the application of the system through case studies from the Agricultural Mech-anization Project.

Preparation of a third paper, Resource Allocation Efficiency in Egyptian Agriculture and Policy Implications, continued during the reporting period. This is considered to be the most important paper of the entire working paper series because it analyses farmer behavioral response to resource allocation efficiency. The paper, which will be published during the next reporting period, tests the hypothesis of Egyptian farmer reationality in major field crop production and evaluates the effects of government price and market policies on the resource allocation process. Important lessons and issues related to policy formulation emerge from the analysis.

Socio Economic Evaluation of Farm Machinery:

Working paper No.19 provides a synthesis of the various socio-economic and technical factors influencing the adoption process and provides an historical record of the machinery adoption process in Egypt. The paper also demonstrates through actual project case studies the dynamics of an in-egarted planning and evaluation system developed and institutionalized under Project auspices. This experience provides valid quantitative evidence that the scientific approach to machinery selection and replication constitutes a more reliable framework for long-range mechanization development than other alternative approaches which rely heavily upon market saturation of un-tested machinery imports from abroad.

The machines evaluated included the following:

- combine harvesters
- silage mowers
- cotton tillage instruments
- all-purpose thresher-winnower
- irrigation water pumps
- mower-binders
- grain drills

In evaluating the above items of machinery, it was found that only three of these satisfied all technical and socio-economic criteria. The evaluation criteria included the following:

- 1) On-farm and social rates of return exceeding 15%
- 2) Social acceptance in that no cultural constraints, or farming practices are violated
- 3) Technical suitability to the farming system

The machines which satisfied these criteria without modification included existing cotton tillage instruments (chisel plows and scrapers), the grain drill for wheat planting, and the appropriate threshing and winnowing machine. The other implements showed some deficiencies in either the technical, sociological areas. These machines could, however, be modified, so that many of the acceptance criteria were met. Details of the evaluation are contained in the report.

Conference Paper-Agricultural Development Systems Conference March 18-21.

From March 18, March 21, the Planning and Evaluation Unit presented a paper describing the planning and evaluation system, based on farming systems research, used by the Agricultural Mechanization Project in selecting and adapting machinery for specific farm operations where identified production bottlenecks have created severe constraints. The paper describes the systematic framework used in the planning and evaluation process and illustrates its applicability through individual case studies. The presentation generated a number of questions and comments. Many participants were concerned that mechanization creates unemployment is generally not suited to agriculture in developing countries. It was pointed out that the Egyptian agricultural sector is subjected to seasonal labor bottlenecks and that the focus of the Project was to address these problems not launch full-scale mechanization. It was also noted that mechanization must be considered as an integral part of the total input package, not as an isolated treatment. It must also be evaluated in terms of its effect on the total farming system in interaction with the other inputs.

Resource Allocation Paper

The focus of this paper is to quantitatively test various assumptions of small farmer efficiency by evaluating their resource allocation practices. Taking two opposite hypotheses: (1) small farmers are inefficient; (2) small farmers are efficient and economically rational, the study developed production functions for various inputs. The functions developed included those for land, labor, machine capital, and production capital. Economic theory holds that the efficient producer will allocate resource inputs up to an amount where the productive value of the last unit supplied (marginal value productivity) will be equal to its factor price.

In running this test, it was found that the ratio of marginal value productivity and factor price for labor on Egyptian farms sampled is 0.95 for labor, 1.02 for machinery capital, 1.17 for production capital, and 2.17 for land.

From this analysis, the marginal value productivities of most inputs are in equilibrium with factor prices. The only resource input not following this pattern is land, where there is a substantial constraint on the supply of high productivity agricultural land in Egypt.

The analysis clearly shows that Egyptian farmers are economically rational and make their production decisions on the basis of economic considerations. This fact must be taken into account when making public policy affecting the agricultural sector.

... some results paper
... based on farm systems
... effect in selecting and
... of products

AGRICULTURAL MECHANIZATION PROJECT

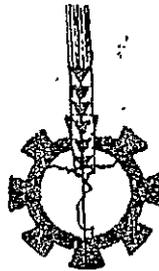
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DATE 3 APRIL 1985 التاريخ

To: Dr. Ahmed A. El Sahrigi AND Dr. David Gasser
Project Director Team Leader

From Farouk Hoda, / Ibrahim El Gattas / Fred Schantz,
Extension Supervisor Training Officer Extension and
Training Coordinator

and the Staff of the Machinery Management Extension and
Training Subproject

Subject: QUARTERLY REPORT for JANUARY/FEBRUARY/MARCH 1985 of
the Machinery Management Extension and Training Subproject

I. SUMMARY

A. Extension Unit Activities

1. Field activities stopped from January to mid February due to the winter weather. From mid February through March activities increased as land preparation began for the summer crops (cotton, etc.); some of which were planted in March. A total of feedars were covered for approximately field demonstrations for an estimated participants (ANNEX 2 : Field Courses).

2. Intensive extension demonstration/training sessions were held in March at the village of Shiek Ahmed for all project extension mechanization specialists in order to orient them to the newly arriving demonstration/training equipment. Some 15 various machine types which were received in the Alexandria Research Station at Saba Haya were used by the specialists including driving John Deere and Ford tractors, working various implements and practicing welding techniques.

3. An extension/training planning meeting was held in January to divide the numerous extension activities among the limited technical staff (ANNEX 1.1). The team of Schantz/Shafik were assigned to continue developing equipment specifications as needed, processing the equipment orders, clear and process the IFB equipment at Alexandria and assist the team of Engstrom/El Behari in continuing the field extension efforts, orienting the specialists on the new equipment and coordinating with the research personnel in cotton and other crop trials with the machines acquired.

4. Several farmers were taken to the Cairo International Fair during March where they were exposed to new equipment on the market and the recent developments in mechanization.

5. Several staff attended a conference held by the Agricultural Development Systems project where a number of research papers were presented and discussed.

6. DEMONSTRATION/TRAINING COMMODITIES processing conducted a considerable amount of time from all concerned during the quarter. Numerous trips were made by extension staff to the Alexandria Research Station where they assisted with the clearing, processing and delivering of 360 machines and attachments ordered through IFB 83/02.

In addition to these activities considerable time was spent with the processing of 563 pages of specifications for equipment to support the Agricultural Mechanization Research Institute. The specifications were divided into three equipment procurements as follows: (1) COMPUTERS, (2) LAB EQUIPMENT (3) SHOP EQUIPMENT and (4) MANUFACTURING EQUIPMENT. Nine technical committees were held to discuss and approve these orders which must be converted from their present English system form into the Metric system before going out for bid.

A status report on the extension/demonstration commodities procurements to date is as follows:

NO. GROUP ORDER STATUS (as of 31 March 1985)

(1) #IFB 83/02: Most of the 368 units (380 with the 12 loader attachments) have been assembled by the local dealers. Approximately 130 units (35 %) have been delivered to the field sites, 98 units (27%) have been cleared for delivery and the

BEST
AVAILABLE

remaining 150 units (38%) are awaiting local dealer assembly (see ANNEX 3a, b, c for details).

- (2) \$IFB 84/03: Equipment ordered is arriving in Alexandria customs.
- (3) \$IFB 85/04: USAID returned the specifications in February for recalculation of available funds before processing the order. After this was completed, the specs were sent back to USAID who approved the specs which were then forwarded to the MOA procurement committee for approval after which they will be sent to USAID for processing.
- (4) \$IFB 85/05: The MOBILE WORKSHOPS specs order was approved by the project's technical committee and is being reviewed by the MOA procurement committee before being forwarded to USAID for processing.
- (5) \$IFB 85/06: These specifications for the COMPUTER EQUIPMENT for the Agricultural Mechanization Research Institute were approved by the project's technical committee and are being processed by the MOA procurement committee before going to USAID for processing.
- (6) \$IFB 85/07: These specifications for the INSTITUTE LABORATORY EQUIPMENT are under review by the project's technical committee which is converting the English standard specs into the metric system as directed.
- (7) \$IFB 85/08: These specifications for the INSTITUTE SHOP EQUIPMENT are under review by the project's technical committee which is converting the English standard specs into METRIC units.
- (8) \$IFB 85/09: These specifications for the INSTITUTE MANUFACTURING EQUIPMENT are under review by the

project's technical committee which is converting the English standard specs into METRIC units.

- (9) Group 11: Most equipment has been delivered.
- (10) Group 6: Awaiting spare parts delivery.
(Gabel Asphar)
- (11) 85/1A-07A: In process with the project's technical committee.
- (12) Local # IFB 02 " " "
- (13) UNDER PREPARATION: Cotton picking equipment

7. THE EQUIPMENT MAINTENANCE UNIT continued its activities with intensive attention on the IFB 83/02 equipment and spare parts at the Alexandria Research Station. Paperwork was completed for registering, clearing and distributing most of the equipment and contact was made with the local dealers who have still failed to complete the assembly of some equipment. A plan was completed (ANNEX 4) for the development of a spare parts room at the Alexandria station which could receive the large amount of spare parts which have been held in a workshop at the station for 6 months waiting for examination and distribution. This parts room will supplement the main warehouse located in Cairo.

8. The EXTENSION INFORMATION UNIT continued its activities as usual. The director of the unit was on vacation much of the quarter.

9. THE DEMONSTRATION/TRAINING UNIT continued its activities at the Gabel Asphar farm training center and the Fayum research station. A second location in the Fayum was established during the quarter at Kom Hessim where project equipment has been transferred from Gabel Asphar and from the new equipment arriving in Alexandria. Concern was noted following an examination of the equipment at Gabel Asphar in March when it was learned that the combine harvester was driven with the emergency brake on causing the right brake drum and right axle to temper. Also following discussions with some of the staff working in both areas, it was determined that there is a critical need for operator training of their staff who are unfamiliar with the motor grader, bulldozer and land scraper now used by the unit. This equipment along with other units have been moved and used without experienced staff which could result in permanent damage to the equipment unless recommended training procedures and effective supervision are followed.

B. In-Country Training Activities

1. During the quarter a total of ~~480~~ trainees attended ~~35~~ new and continuing training center field courses/sessions (Annex 3a).

2. The 1985 training Plan was completed during the quarter by project management and by USAID. The plan is now being printed for distribution.

3. Discussions were held with training staff and project management concerning the preparation and presentation of a paper entitled "Agricultural Mechanization Extension Education Programs in Egyptian Agriculture" to be presented to the biannual American Society of Agricultural Engineers (ASAE) meeting held at the Michigan State University in June 1985. An outline of the paper has been completed for review.

4. A financial summary of the quarter's training and extension expenditures is as follows:

<u>MONTH</u>	<u>EXPENDITURE (LE)</u>	
JANUARY	15,310.195	(NOTE: Outstanding petty
FEBRUARY	15,920.483	cash in checks to indi-
MARCH	32,280.209	viduals = LE 72,550.000)
Totals: LE 63,510.887		

C. Participant Training Activities

1. During the quarter 6 academic and 6 technical trainees attended 8 new and continuing programs (Annex 3b).

2. One new technical training program was prepared, approved by project management and sent to USAID in Cairo for processing.

3. An up to date status of all participant training programs was prepared for the USAID auditors during the quarter following their request for this information (see ANNEXES 5.1,5.2)

II. DURING THE QUARTER

A. During the quarter the agricultural mechanization

project staff moved from the FAO building offices to the new location of the Agricultural Mechanization Research Institute located in Dokki/Giza. The new facilities had been prepared by the MOA for the Institute which appears to have been, at least in part, a result of the project's efforts and achievements over the past four and a half years. The formal establishment of an agricultural mechanization unit within the MOA was one of the primary goals of the project from the beginning which seems to have now be completed.

B. Another notable event occurring during the quarter was the announcement that the project would be extended for one additional year in order to allow enough time for the ongoing intensive activities to reach completion as per the original implementation plan. This mainly included the field extension effort which is now in full swing with the arrival of large quantities of equipment ordered for the project over the past 2 years.

C. Discussions were held with USAID personnel concerning the newly named NAPP (National Agricultural Production Program) which is due to begin this year between the MOA and the USAID agricultural unit. Project inputs to the NAPP will be used to help USAID design the mechanization section of the program, especially with regards to the three foci of the program or research, extension and training.

D. Finally the USAID auditors began a formal audit of the project's financial transactions in order to evaluate these important project activities. The auditors time consuming examination of all aspects of the project in regard to financial management should take several months. During the quarter the only item discussed in detail with the training staff was concerning the poorly effected participant training program which the auditors acknowledged was due primarily to the lack of candidates qualified in the English language.

V. PROBLEMS

None of notable importance this quarter.

IV. PLANS FOR NEXT MONTH

1. Continue extension and training activities with a focus on clearing (with local dealers cooperation) and transportation of the demonstration/training equipment of IFB 84/02 to project areas.

2. Finalize technical specifications for the Agricultural Mechanization Research Institute.

3. Check/train personnel on the maintenance/repair of demonstration/training equipment in project areas.

4. Begin to finalize/type/print project equipment specifications which can be included in the completion of project report.

5. Acquire from the USAID training office approved programs for the various technical training programs in process for several months.

6. Write a paper entitled "Agricultural Mechanization Extension Education Methods Used in Egyptian" to be presented at the biannual meetings of the American Society of Agricultural Engineers at Michigan State University on June 26, 1985.

Agricultural Mechanization Project

Quarterly report of the EXTENSION ADVISOR
Prepared by ROGER ENGSTROM
For the period from OCTOBER 1984 TO MARCH 1985

SUMMARY:

OCTOBER/NOVEMBER/DECEMBER 1984:

Summary: Various field days: soybeans, rice, cotton, maize harvesting, straw baling, combine
Rice conference/EMCIP conference
Training course for engineers
Changes to scrapers, several demonstrations of scrapers
Repairs to various machines/backhoe, scrapers, combine, baler, tractors, ridders, ring roller, seed drills, planters, cultivators
Cotton pickers were used without our knowledge
Various farmer meetings with very good results
Coordinated machinery arrivals/assembly at Alex-very slow
Used seed drills for wheat, berseem, fava beans, barley, sugar beets; Demo sugar beet w/J.D. planter

PROBLEMS: WAITING 3-4 MONTHS FOR TYPING/COPIES
PLANS FOR NEXT MONTH: Vegetable planting

JAN/FEB/MAR 1985:

Summary: Seed bed preparation. Have good demo of all new machinery on sadly mechanized vegetable field. Cut crop residue with root blade which loosened soil; fallowed residue to dry; used disc plow to plow down vines; used chisel to till; scraper for leveling; used tractor and loader to load spreader; spreader to haul and spread on field; farmers were very favorably impressed. Many want us to demo on their farm. Used bedder, spike tooth harrow, combination roller harrow, and J.D. planter to complete long furrow demo of squash field.
Have had 3 training sessions on new machinery-Ford TW 15 and subsoiling chisel; farmers like is very much; spring tooth cultivator, spike tooth harrow, disc bedder, planter, comb R.R. welding.
Demo of row cultivator. Very hard to get people to try the cultivator, very quick to say no. Manure spreader assembly people did a good job.
Have had good support of Musa, Nadi and Fred in getting new machinery accepted and moved. Although we have some training/demo at S.A, we missed it in the sites. However, most should be in place for maize, soybean and rice season; big

problem with releasing spare parts...
Training at sites as machinery arrives. Also laser use when it
is assembled

Small support items cannot be depended upon--this valuable field
time is spent in Cairo. One week to move a planter, 4 1/2 days
to get passport/visa...

NOTE: Did not have time for complete training as demonstration
was first priority; lack of training coordination/logistics; each
group received training as it fit the demonstrations
Trainees (engineers) had good "hands-on" experience and most were
familiar with the machinery by the end of the week. Some were
comfortable handling the machinery--a very good START...

ANNEX 1

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DATE -17 January 1985 التاريخ

NOTES ON EXTENSION/TRAINING MEETING OF
17 January 1985

In attendance: Dr. David Gaiser Farouk Abdou
Fred Schantz Ahmed El Beheri
Roger Engstrom Moussa Shafik

The meeting was held to determine extension/training priorities and to schedule the activities of the staff for this quarter to cover the numerous requirements which are priorities

1. The review of the Institute specifications was given the top priority. Copies of the specs should be available by next week for Fred Schantz and Moussa Shafik to review with Dr. Gaiser and Dr. Sahrigi before giving them to the technical committee for review and processing. Also the estimated prices of each unit and the total quantities will be determined at this time.
2. A second item was also given a top priority: the clearing of demonstration/training equipment from \$ IFB 84/02 which has been in Alexandria for several months now. The following was decided upon:
 1. Ahmed El Beheri and Roger Engstrom would focus on the field testing and specialist training on these machines at Shiek Ahmed village from now through the spring quarter. One unit of each piece of equipment would be moved to this village for testing and training purposes.
 2. Mousa Shafik and Fred Schantz would focus on clearing the remaining equipment at Alexandria, much of which is not yet assembled by the dealers. Both the technical and administrative assistance will be given to the local dealers in order to get these units in the field before next month when the spring season begins.
3. The actions to be taken now are as follows:
 1. Ahmed and Roger would focus on the testing/training of the equipment now on site at Shiek Ahmed (4 units) until the remaining individual units are moved by Mr. Essam from Alexandria for them.
 2. Mousa and Fred would spend a few days each week in Alexandria (minimum on Mondays) to meet with the equipment dealers until their machines are moved to the field.

EQUIPMENT BOOKS

MACHINE

OPERATOR SERVICE PARTS SET-UP

1. JD 2640 TRACTOR (50)
2. JD 146 FRONT-END LOADER (12)
3. JD 4050 TRACTOR (HI-CROP) (15)
4. FORD TW-15 TRACTOR (15)
5. SPIKE TOOTH HARROW (30)
6. GRAIN DRILL TYE (30).
GALLAGNANI
NORDSTEN
TARRUP
7. DISC BEDDER
8. SEED PLANTER JD 71
MASSEY FERG.
9. CULTIVATOR JOHN DEERE
SPRING SHANK
10. MANURE SPREADER (DUAL)
11. RING ROLLER (SCHMIEZER)
12. ROLLER HARROW (BRILLION)
13. J. I. CASE BULLDOZER
14. JD SELF-PROPELLED SCRAPER
15. JD MOTOR GRADER
16. TRAILED LIQUID SPRAY RIG
17. MOUNTED LIQUID SPRAY RIG
18. REAR MOUNTED BLADE
19. SUBSOILER
20. MOTORCYCLE (SUZUKI 125)
21. DISC PLOW (3 DISCS)
22. DISC HARROW (KING)
23. LAZER
24. MOWER BINDER (AGOSTINI)
25. DRAG SCRAPER TANTA MOTORS
BEHERA COMPANY
26. RIDGER TANTA MOTORS
FERGUSON
MASSEY FERGUSON
ATTENTION
27. SILAGE MOWER BUSATIS
GASPARDO
28. ROOT BLADE
29. COTTON STALK BALER
30. HAY BALER DEUTZ/FAHR
JOHN DEERE
31. COMBINE DEUTZ/FAHR
JOHN DEERE
32. AG. BACKHOE ARGENTARIO
33. TOOK KIT - SNAP ON
34. AIR COMPRESSOR
35. WELDER MOUSA

Agricultural Mechanization Project

SUMMARY

Quarterly Training Activities for
JANUARY/FEBRUARY/MARCH 1985

NO.	DATES	COURSE NO.	COURSE TITLE	LOCATION	TR
I. IN-COUNTRY TRAINING CENTERS:					
1.	8 Dec84-10 Jan85	4 EX	Ag. Equip. Operator	Maamouya TC	18
2.	29 Dec84-3 Jan 85	4 EX	Key Farmer Workshop		37
3.	29 Nov84-3 Jan85	4 EX	Ag. Equip. Opera.	Gabel Asphan	12
4.	5-10 Jan	4 EX	Key Farmer workshop	SidiBeshr TC	34
5.	12-17 Jan	4 EX	" " "	" " "	18
6.	19-24 Jan	4 EX	" " "	" " "	19
7.	26-31 Jan	4 EX	" " "	" " "	20
8.	2-7 Feb	4 EX	" " "	" " "	26
9.	9-14 Feb	4 EX	" " "	" " "	21
10.	5-23 Feb	4 EX	Ag. Machine Design	Univ. Alex.	4
11.	26 Jan-May	4 EX	Mechanic Level II	Maamouya TC	14
12.	17 Jan-2 Feb	4 EX	Welding	"	5
13.	9 Feb-28 Feb	4 EX	"	"	9
14.	3 Mar-4 Mar	4 EX	"	"	5
15.	12 Jan-7 Feb	4 EX	"	Gabel Asp TC	7
16.	9 Feb-14 Mar	4 EX	"	" " "	7
17.	16 Mar-11 Ap	4 EX	"	" " "	8
18.	2 Feb-19 Feb	4 EX	Rice Mechanization	MitaDiba TC	16
19.	16 Feb-28 Mar	4 EX	Tractor Operator	Maamouya TC	12
20.	16 Mar-9 May	4 EX	Mechanic Level I	"	15
21.	16 Mar-9 May	4 EX	Mechanic Level III	"	8
22.	9 Mar-11 Ap	4 EX	Water Lifting Pump	"	7
23.	23 Mar-16 May	4 EX	Equip. Instructors	"	11
24.	5 Jan-28 Jan	4 EX	"	Fayoum	6
25.	5 Jan-31 Jan	4 EX	Machine Operator	Gabel Asp TC	10
26.	10 Feb-13 Feb	4 EX	"	Shiek Ahmed	13
27.	17-20 Feb	4 EX	"	"	11
28.	25-29 Feb	4 EX	"	"	14
29.	3 Feb-7 Feb	4 EX	Farm Structures	"	5
30.	10 Feb-14 Feb	4 EX	"	"	5
31.	12 Jan-7 Feb	4 EX	"	Gabel Asp TC	7
32.	9 Feb-14 Mar	4 EX	"	"	8
33.	4 Mar-8 Mar	4 SC	Credit for Mech.	Barrage TC	27
34.	Jan-Mar	4 T	Computer Operator	Cairo	11
35.	Jan-Mar	4 T	English Language	Cairo	12

TOTAL IN-COUNTRY TRAINING CENTER/FIELD TRAINEES: 480

PARTICIPANT (OFF-SHORE) TRAINING

I. In Progress:

ACADEMIC (USA):

1. Aug 83-Jan 85	3 PE 1a	MS: Agri. Economics	1 (Atif)
2. Jan 85-Aug 86	3 PE 1b	" " "	1 (Zaki)
3. Jan 85-Aug 86	2 RD 1	MS: Agri. Production	1 (Ayman)
4. Mar 84-Feb 86	3 PE 1c	MS: Agri. Economics	1 (Ali Kamel)
5. Aug 84-Aug 87	3 RD 2	MS: Soil Science	1 (Gouda)
6. Jan 85-Aug 86	1 T 1	MA: Ag. Education	1 (Nabil)

TECHNICAL:

1. 17 Feb-27 Ap85	2 SC 9	Service Centers	4 part
2. 17 Feb-27 Ap85	2 PE 3	Farm Management	2 part

II. In-Process with USAID:

ACADEMIC PROGRAMS: (None)

TECHNICAL TRAINING PROGRAMS:

1. Tractor/machine Testing	4 RM 4	(Moh. El Naggar)
2. Land Improvement	4 Li 5	(4 participants)
3. Sugar Cane	(New Course)	3 Part.)
4. Local Manufacturing	3 LM 5	(4 participants)
5. Project Management	5 PE 101	(3 participants)

III. Under review by the Project:

ACADEMIC: None due to the project termination date so near

TECHNICAL:

1. Mechanization Extension	2 EX 4Bb	(4 participants)
2. Ag. Mech. Research	5 RM 2	(5 Participants)
3. Ag. Mach. Maintenance	5 EX 70	(4 participants)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

AGRICULTURAL MECHANIZATION PROJECT

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٧٠٤٣٦٤ - ٧٠٧٢٤٧



21 February 1985

DATE _____ التاريخ _____

TO: Dr. Ahmed F. El Sahrigi AND Dr. David Gaiser
Project Director Team Leader

FROM: Mousa Shafik, Project Equipment Supervisor
Fred Schantz, Extension and Training Coordinator

Mousa Shafik
Fred Schantz

SUBJECT: Spare Parts Room Plan for Alexandria Research Station

Following several visits and discussions concerning the development of a spare parts room in the Alexandria Research Station building, we recommend the following:

1. The present downstairs conference room be formerly converted into a parts room, mainly to receive the spare parts from IFB 83/02 now arriving at the station.

2. The room be arranged according to the attached drawing prepared for its development. The five steps necessary to convert the room into a functioning parts distribution center are as follows:

a) Clean out the room which is cluttered with old chairs and lumber as well as misc spare parts from several machines including the Deutz/Farg combine, Rabe chisel plow, King disc harrow, and etc. Once this is done, the room will be ready to receive shelving necessary to house spare parts in an orderly fashion.

b) Install metal bars on the windows in order to secure the room. As per the attached drawing, metal bars about 2 cm by 5 cm about 10 cm apart should suffice.

c) Construct and locate shelving as well as a small desk and chair, filing cabinet and set of spare parts books in the room. The attached drawing for the shelves, (16 units minimum), about 300 cm wide by 50 cm deep by 200 cm high will be adequate to fill the room and leave all doors accessible. The shelves are arranged in such a fashion to allow most parts to face inward while allowing sufficient lighting from the outside.

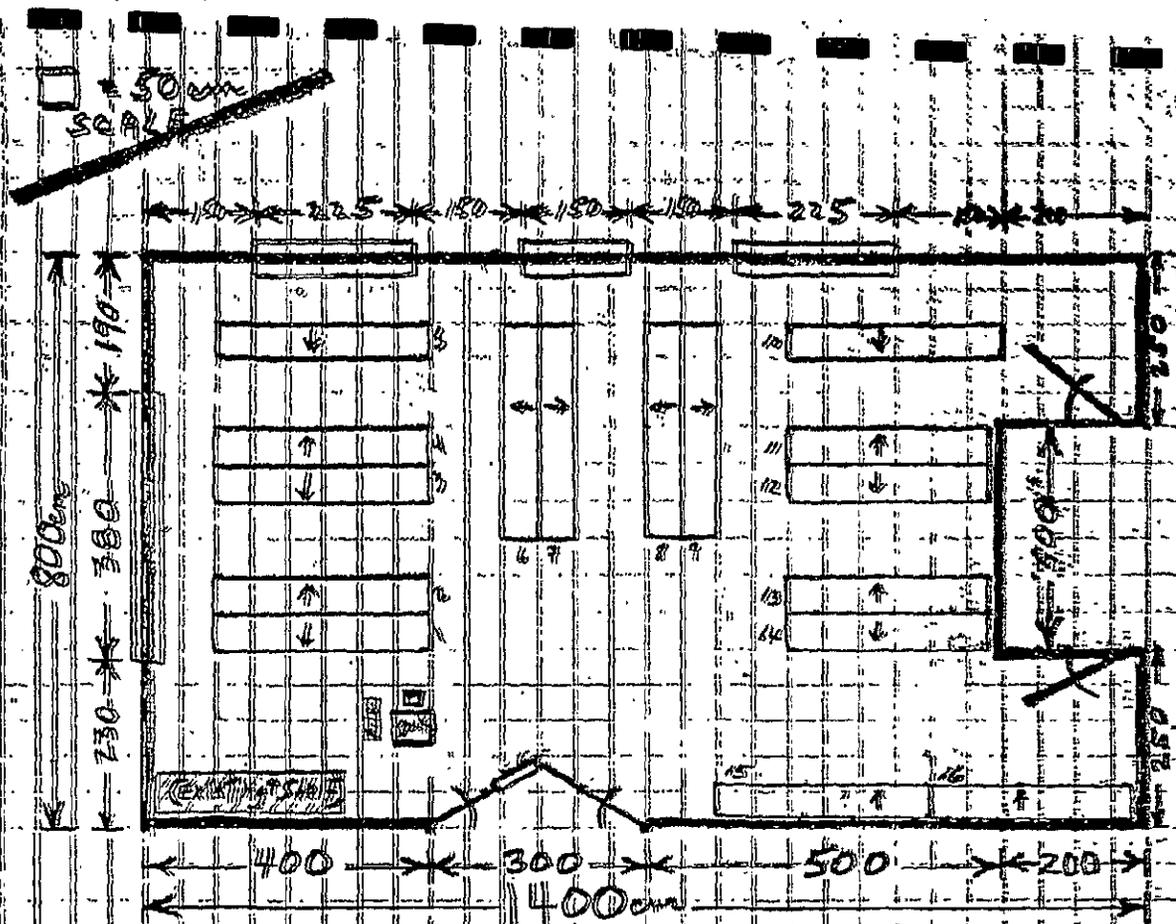
d) Construct one "Dutch" door at the main entrance to the room which will prevent unnecessary traffic in and out of the room and will provide a shelf at the entrance for parts and books examination. One door (of the four sectioned door) will have to be modified according to the attached drawing to achieve this.

ANNEX 4/2

e) Locate the spare parts cards, books and administrative supplies in the room. Then as the parts enter the room to be put onto the shelves, they can be entered onto the cards (and books, if provided). Each shelf row, column and bin will be assigned a number (ex.: Row A, Column B, bin 3) which will be entered onto the cards for quick reference and prompt discovery.

f) Personnel training can be done formerly during the above steps and afterwards as necessary in order to ensure an accurate and efficient system.

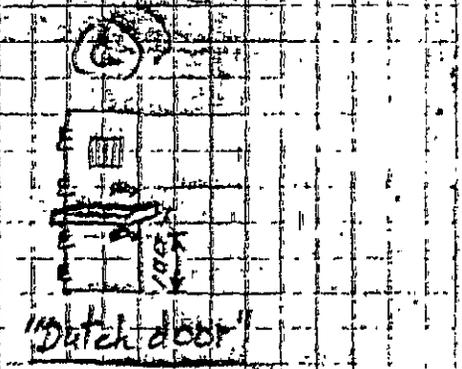
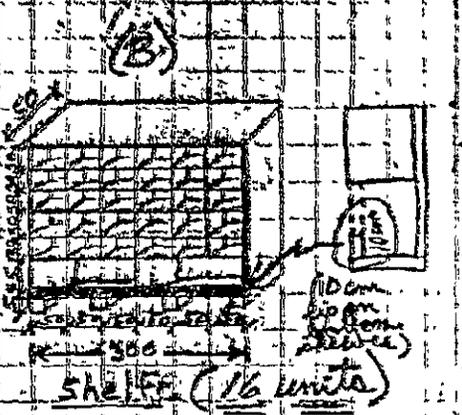
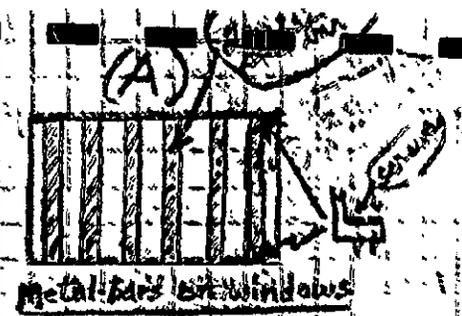
3. With the spare parts entered on the records and accounted for, they can then be distributed as necessary to the various governorates' parts stores for use .



Alexandria Spare Parts Room

STEPS:

1. Clean out room (combine spare parts, chairs, etc)
2. All windows need metal bars (A)
3. Locate shelves (and one desk and chair) in room (B)
4. Cut one door as "dutch door" (C)
5. Locate spare parts in room and enter onto individual spare parts cards (D)
6. Personal training



(D)
Spare parts Card
(see attached card)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

CULTURAL MECHANIZATION PROJECT

A. I. D. Proj. NO. 263 - 0031

EGYPTIAN MOA/USAID

5 th. Floor - Building of the
General Society For Land Reform

P. O. B. 256 Dokki - Giza, ARE.

704660 - 704720

704364 - 707247



مشروع المكننة الزراعية
وزارة الزراعة المصرية - وكالة التنمية الأمريكية
الدور الخامس - مبنى الجمعية العامة للإصلاح الزراعي

صندوق بريد ٢٥٦ - الدقي - حيزة ج ٢٠ ع

٧٠٤٦٦٠ - ٧٠٤٧٢٠

٧٠٤٣٦٤ - ٧٠٧٢٤٧



DATE 3 March 1985

التاريخ

TO: Dr. Ahmed F. El Sahrigi
Project Director

and

Dr. David Gaiser
Team Leader

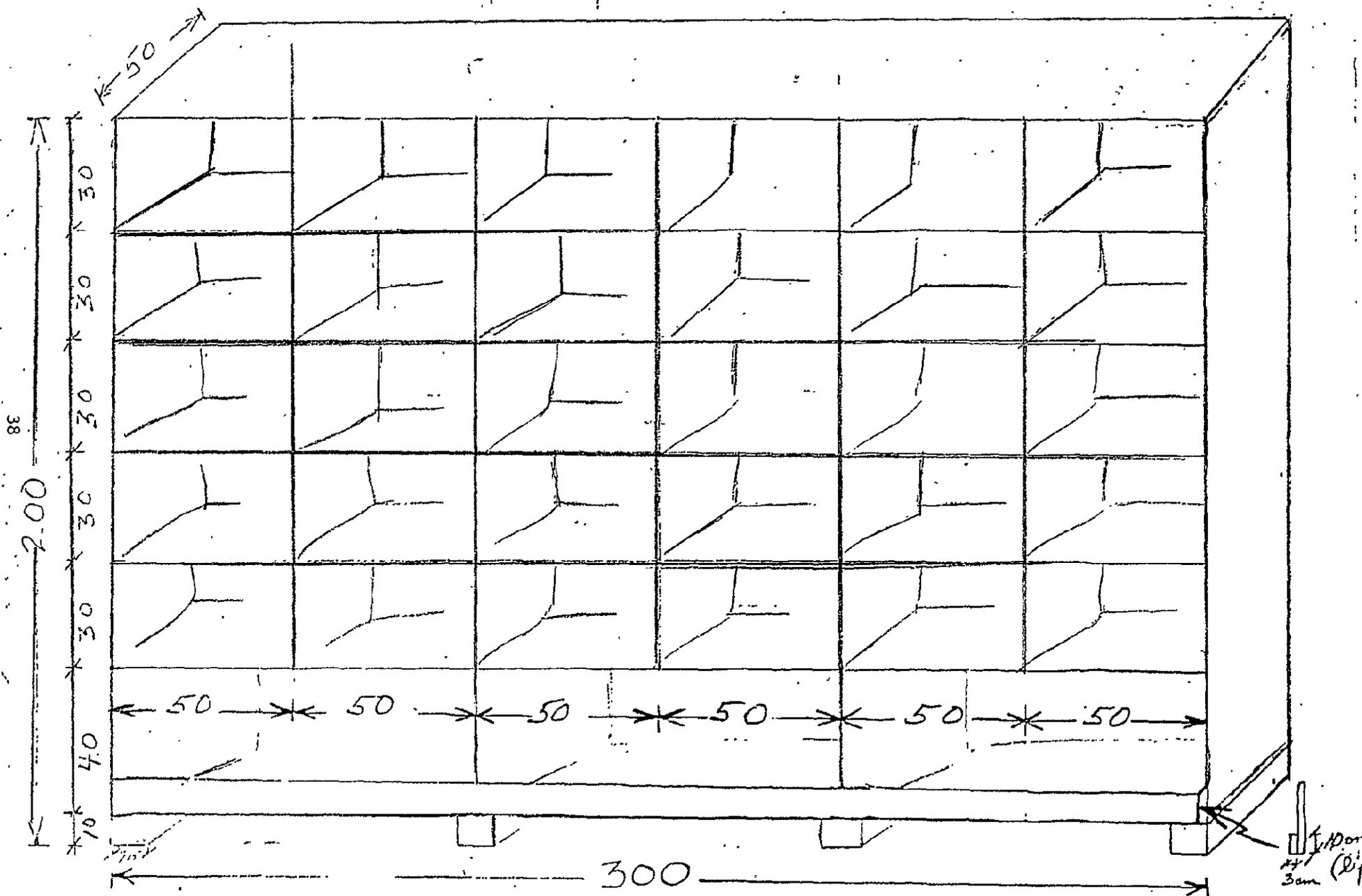
FROM: Ibrahim El Gattas, Training Officer
Fred Schantz, Extension and Training Coordinator

SUBJECT: SPARE PARTS TRAINING COURSE FOR PARTS SHELVES AND INVENTORY
CONTROL SYSTEM

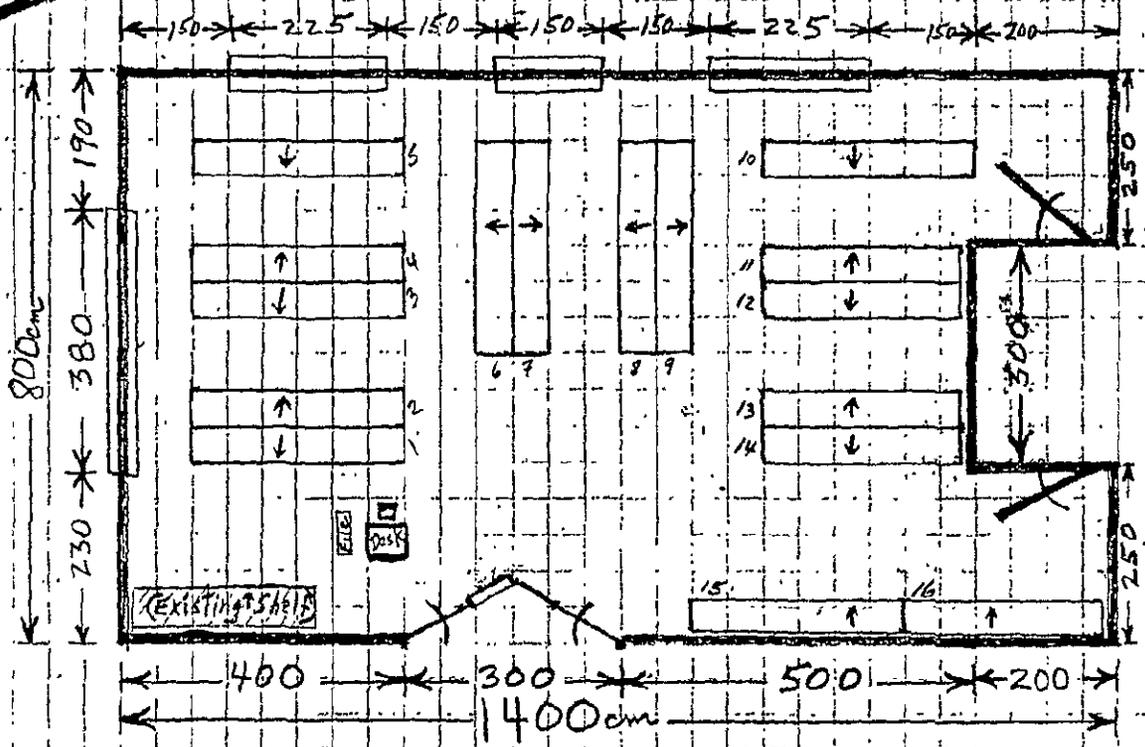
We request permission to conduct a training course at Gabel Asphar farm entitled SPARE PARTS SHELF CONSTRUCTION AND INVENTORY CONTROL SYSTEM USE in order to train personnel in these subjects and to provide the finished product of the course (16 parts shelves) to the Alexandria Research Center parts room where further on-the-job training will be held for selected project staff involved in inventory control systems. This course will provide actual hands-on training by physically completing parts shelves and will directly involve selected staff in the formation of a spare parts support system critical to the large inventory of incoming demonstration/training equipment. A drawing of the parts shelves is attached.

approved

Spare Parts Shelves



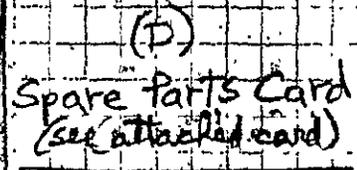
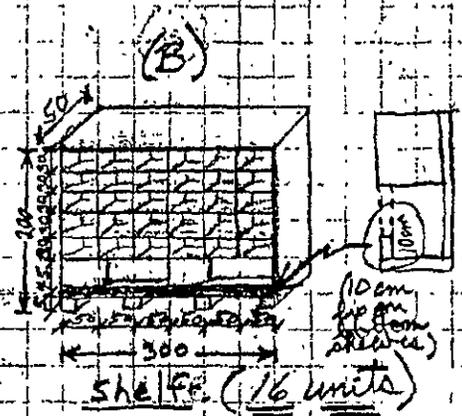
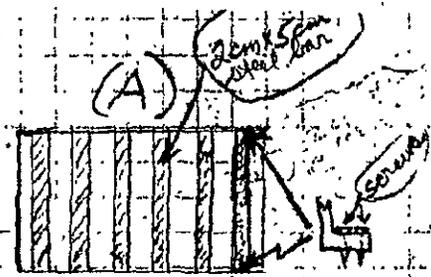
□ = 50 cm
SCALE



Alexandria Spare Parts Room

Steps:

1. Clean out room (combine spare parts, chains, etc)
2. All windows need metal bars (A)
3. Locate shelves (and one desk and chair) in room (B)
4. Cut one door as "Dutch door" (C)
5. Locate spare parts in room and enter onto individual plate in ID cards (D)



A. I. D. Proj. NO. 83-0231
 EGYPTIAN GOVERNMENT
 5th Floor - Building of the
 General Society For Land & Farm
 P.O. B. 188 El-Dokki - Giza - KE.
 704600 - 704720
 704864 - 704947



مركز البحوث الزراعية
 مركز البحوث الزراعية

DATE 13 March 1985

TO: Dr. Ahmed F. El Sahrigi AND Dr. David Gaiser
 Projects Director Team Leader
 FROM: Mousa Shafik, Project Equipment Officer
 Nadi Abdalla Rezek, Project Equipment Officer
 Fred Schantz, Extension and Training Coordinator

BEST AVAILABLE

SUBJECT: STATUS REPORT on IFB 83/02 Equipment Clearances and Deliveries

The following is a status report on the demonstration/training equipment from the IFB 83/02 procurement which arrived for assembly and distribution at the Alexandria Research Station at the end of 1984. While several units still remain at the station, a large portion of the equipment has been cleared by the project's technical staff and has been picked up by the field coordinators who are beginning to use the units in field demonstrations.

In order to expedite the clearance of the remaining units and to show what actually remains to be delivered, the following report (including the equipment dealers who need to take an active role in clearing the remaining equipment if it is to reach the field this year), is presented.

A summary of the units delivered, ready for delivery and still to be cleared is as follows:

MACHINE	TOTAL UNITS	UNITS CLEARED	UNITS DELIVERED	UNITS READY FOR DELIVERY	UNITS TO BE CLEARED
1. Tractor, JD 2640 : (with loaders):	38 12	33 10	23 6	10 4	5 2
2. Tractors, JD 4050	15	8	7	1	7
3. Tractors, FORD TW-15	15	4	2	2	11
4. Spike Tooth Harrow	30	28	6	22	12
5. Grain Drill, TYE	30	0	0	0	30
6. Disc Roller, BLATON	30	30	8	2	0
7. Seed Planter, JD 71	30	0	0	0	30
8. Disc Harrow	30	30	13	17	0
9. Disc Harrow, Sch... 30	30	1	1	0	29
10. Disc Harrow, Sch... 30	30	1	0	0	29
11. Disc Harrow, Sch... 30	30	1	0	0	29
12. Disc Harrow, Sch... 30	30	1	0	0	29
13. Disc Harrow, Sch... 30	30	1	0	0	29
14. Disc Harrow, Sch... 30	30	1	0	0	29
15. Disc Harrow, Sch... 30	30	1	0	0	29
16. Disc Harrow, Sch... 30	30	1	0	0	29
17. Disc Harrow, Sch... 30	30	1	0	0	29
18. Disc Harrow, Sch... 30	30	1	0	0	29
19. Disc Harrow, Sch... 30	30	1	0	0	29
20. Disc Harrow, Sch... 30	30	1	0	0	29
21. Disc Harrow, Sch... 30	30	1	0	0	29
22. Disc Harrow, Sch... 30	30	1	0	0	29
23. Disc Harrow, Sch... 30	30	1	0	0	29
24. Disc Harrow, Sch... 30	30	1	0	0	29
25. Disc Harrow, Sch... 30	30	1	0	0	29
26. Disc Harrow, Sch... 30	30	1	0	0	29
27. Disc Harrow, Sch... 30	30	1	0	0	29
28. Disc Harrow, Sch... 30	30	1	0	0	29
29. Disc Harrow, Sch... 30	30	1	0	0	29
30. Disc Harrow, Sch... 30	30	1	0	0	29

ANNEX 4B

BEST AVAILABLE

15. M... 15
 16. M... 15
 17. M... 10
 18. M... 5

1	1	0	34
-0-	-0-	-0-	15
1	1	-0-	29
13	6	7	2
368	79	85	204

To date, as stated above, about 40% of the equipment has been cleared and is being delivered to project areas, leaving 60% to be cleared and delivered. The majority of the UNITS TO BE CLEARED require equipment dealer attention as shown below.

EQUIPMENT STATUS:

ICON (John Deere)
 -2640 Tractor:
 -2640 Tractor with loader;
 -4050 Tractor:

NEEDS:

Minor repairs to all 5 units
 Minor repairs to the 2 units
 Minor repairs to the 7 units; One unit was slightly damaged when moved from customs to the research station i.e. remote valves which was done by project staff; if the project covers the cost of the spare parts, ICON will repair the unit; the parts are on order by ICON

Tractor Model 21:

All units require assembly (30%) which is being done by...

Tractor Model 21:
 - 21000 etc:

Some units were assembled with parts in the wrong places which is being corrected. All units are assembled and need to be cleared and delivered to the project areas to be cleared and used up or stored.

ICON (John Deere)

- Spray Mill:
 - Tractor spray unit:

All units have been assembled and need to be cleared and delivered to the project areas to be cleared and used up or stored.

GENERAL ENGINE (John Deere) (2000)

- 2000
 - 2000
 - 2000
 - 2000

All units have been assembled and need to be cleared and delivered to the project areas to be cleared and used up or stored.

Status of IFB 83/02 Tractors

(as of 21 March 1985)

REPAIRS NEEDED BEFORE ACCEPTING:

<u>NO.</u>	<u>TRACTOR NO.</u>	<u>TYPE OF UNIT</u>	<u>PROBLEMS</u>
1.	713845	JD 2640	1. No batteries 2. Damaged top right signal light and roof
2.	713428	JD 2640	1. Noise coming from hydraulic pump mounted on front of motor 2. Rear lights not working 3. Missing 1 shift lever knob 4. Oil filler cap missing-replaced with a paper plug
3.	713805	JD 2640	1. Broken starter solenoid 2. Air indicator is not working 3. No muffler cap or extension 4. Rear light not working 5. No PTO shaft cover
4.	713766	JD 2640	1. Starter solenoid sticks 2. Gas pedal (foot) sticks
5.	713844	JD 2640 (with loader)	1. Left hydraulic cylinder on loader (lift cylinder) is damaged and needs REPLACING 2. No muffler cap
6.	713484	JD 2640 (with loader)	1. Motor runs rough-probably air in fuel system 2. Noise coming from the engine
7.	004025	JD 4050	1. Right remote control valve is broken and needs REPLACING 2. No batteries 3. No plastic caps over remote control valves
8.	004050	JD 4050	1. Right and left fenders are damaged 2. Right front light is missing
9.	004053	JD 4050	1. Right and left fenders are damaged 2. Hydraulic oil is low 3. Muffler cap is missing
10.	004051	JD 4050	1. Noise from hydraulic pump on front of engine 2. Transmission oil overfilled 3. Right signal light not working 4. Manifold cap is missing
11.	004040	JD 4050	1. Leak from PTO housing 2. Two remote control valve plastic caps missing

FORD TW-15 tractors:

1. 6 units require canopy bolts
2. 2 units which were delivered to the field
require hydraulic filters to be changed
due to shipping damage
3. 7 units cleared for delivery on 18 March 1985

ANNEX 4C

[Handwritten Signature]

21 March 1985

Agricultural Mechanization Project

EQUIPMENT ARRIVAL DATES for
US\$ IFB 83/02

as of 31 MARCH 1985

Arrival Dates

ITEM NO.	DESCRIPTION	COMPANY	QTY	ALEX CUSTOMS	RESEARCH STATION	PUT IN THE FIELD
1.	TRACTOR (70HP)	JOHN DEERE	50	8 NOV 84	17 JAN 85	44 units
1a.	FRONT-END LDR	JOHN DEERE	12	8 NOV 84	17 JAN 85	10 units
2.	TRACTOR (90HP, high-crop)	JOHN DEERE	15	15 NOV 84	17 JAN 85	10 units
3.	TRACTOR (110HP)	FORD	15	15 NOV 84	DEC 84	3 units
4.	SPIKE TOOTH HARROW	AMICO	30	15 NOV 84	15 DEC 84	17 units
5.	GRAIN DRILL	OPPENHEIMER	30	15 NOV 84	NOT YET	NONE YET
6.	DISC BEDDER	WALPECO	30	19 AUG 84	22 SEPT 84	18 units
7.	SEED PLANTER	JOHN DEERE	30		17 JAN 85	NONE YET
8.	CULTIVATOR	DALTON/COOPER/GATES	30	30 AUG 84	22 SEPT 84	23 units
9.	MANURE SPREADER	WALPECO	30	19 AUG 84	1 OCT 84	1 unit
10.	RING ROLLER	DALTON/COOPER/GATES	15	30 AUG 84	22 SEPT 84	NONE YET
11.	ROLLER HARROW	DALTON/COOPER/GATES	15	30 AUG 84	22 SEPT 84	NONE YET
12.	BULLDOZER	J I. CAGE	1	15 NOV 84	Gabel App	1 unit
13.	SELF-PROPELLED SCRAPER	JOHN DEERE	1	15 NOV 84	15 JAN 85	1 unit
14.	MOTOR GRADER	JOHN DEERE	1	15 NOV 84	15 JAN 85	1 unit
15.	TRLD LG SPRY RIG	OPPENHEIMER	15	15 NOV 84	1 DEC 84	1 unit
16.	TRACTOR MOUNTED LIQUID SPRAY RIG	DALTON/COOPER/GATES	15	15 AUG 84	15 SEPT 84	NONE YET
17.	REAR MOUNTED TRACTOR BLADE	AMICO	30	15 NOV 84	15 DEC 84	1 unit
18.	SUBSOILER	AMICO	15	15 NOV 84	15 DEC 84	9 units

TOTAL UNITS IN FIELD: 130 (35%)

Total Units: 368 (380 including the 12 loader units to be mounted onto 12 of the 70 hp tractors)

+ KOM HESSIM demonstration/training farm in the Fayum

UNITS CLEARED READY FOR DELIVERY: 98 (27%)

UNITS AWAITING LOCAL DEALER ASSEMBLY: 152 (38 %)

ANNEX 4.D

Agricultural Mechanization Project

STATUS
of the PARTICIPANT TRAINING PROGRAMS
as of 1 February 1985

NO.	COURSE NO.	PIO/P NUMBER	DURATION	COURSE TITLE	TRAINEE NO. / NAMES
-----	------------	--------------	----------	--------------	---------------------

Academic Programs: (1980-1985, all in the USA)

A. CANCELLED:

1.	3 RM 4	263-031-1-90554	(deceased)	PhD: Pst Har.	1/Bouhary
2.	2 PE 8	263-031-1-90555	(left Egypt)	MS: Rural Soc	1/Rakman
3.	3 EX 45.1	263-031-1-90556	(Peace Flshp)	MS: Ag. Eng	1/Maleka
4.	2 PE 7	263-031-1-00428	(Peace Flshp)	MS: Ag. Econ	1/Khalil
5.	3 SI 13	263-031-1-00502	(Peace Flshp)	MS: Soil Sci	1/Elsheik

B. IN PROGRESS:

1.	3 PE 1a	263-031-1-90553	Aug 83-Jan 85	MS: Ag Econ	1/Razek
2.	3 PE 1b	263-031-1-90545	Jan 84-Aug 86	MS: Ag Econ	1/Z. Helmi
3.	2 RD 1	263-031-1-00466	Jan 84-Aug 86	MS: Ag Prod	1/A. Mofti
4.	3 PE 1c	263-031-1-00467	Mar 84-Feb 86	MS: Ag Econ	1/A. Kamel
5.	3 RD 2	263-031-1-00503	Aug 84-Aug 87	MS: Soil Sci	1/Gouda
6.	2 T 1	263-0031-1-00463	Dec 84-Aug 86	MA: Ag Edu	1/Nabil

C. IN PROCESS: None by USAID or the Project as of 1 February 1985

Total Academic Programs Processed: 11

Technical Training Programs: (as of 1 February 1985)

A. CANCELLED : as of 1 February 1985

1.	2 T 9	TA-263-84-428	1984	Inv Tvl	1/Haddad
2.	2 T 9	TA-263-84-429	1984	Inv Tvl	1/Sahrigi
3.	2 T 3	263-0031-1-00432	(Cancelled-	Tech Trg	10/Elbrinin

ANNEX 5,1

4.	2	EX	48	263-0031-1-00434	RE: USAID	Tech Tng	10/Mamdouh
5.	2	PE	3	263-0031-1-00436	memo	Tech Tng	11/Maher
6.	3	PE10a		263-0031-1-00438	dated on	Tech Tng	6/Nour
7.	2	EX	3	263-0031-1-00441	25 Oct 1983)	Tech Tng	13/Fouad
8.	2	EX	7	263-0031-1-00445	"	Tech Tng	
9.	3	Si	6	263-0031-1-00460	"	Tech Tng	
10.	2	SC	6	263-0031-1-00464	"	Tech Tng	

B: IN PROGRESS :None as of February 1985

C. COMPLETED: (as of 1 February 1985)

1.	-	-	-	031-01	1981	Inv Tvl	
2.	2	T	7	031-06	Aug-Sept 82	Tech Tng	1/Younis
3.	2	T	7	263-0031-1-90504	Aug-Sept 82	Tech Tng	1/Sahrigi
4.	3	Si	10	263-0031-1-90544	Jul-Aug 83	TT:Soil Imp	1/Orabi
5.	3	Si	3	263-0031-1-90557	July-Sep 83	TT:Soil Imp	2 part
6.	3	T	9	263-0031-1-00429	July-Aug 83	Tech Tng:US	10 part
7.	3	RD	2	263-0031-1-00430	Aug 83-Feb 84	Tech Tng:R/D	1/A. Nadi
8.	3	RD	1	263-0031-1-00433	Aug 83-Jun 84	Tech Tng:R/D	1/N. Arifa
9.	3	EX	2	263-0031-1-00434	Aug-Sept 83	Tech Tng:US	8 part
10.	3	EX	4	263-0031-1-00442	August 83	TT: Thailand	9 part
11.	3	EX	3	263-0031-1-00443	July-Aug 83	TT: Phill	7 part
12.	3	EX	7	263-0031-1-00444	Sept-Oct 83	TT: Phil/Thai	10 part
13.	3	EX	6	263-0031-1-00451	Sept-Oct 83	TT: " "	9 part
14.	3	EX	5	263-0031-1-00452	July-Aug 83	TT: " "	12 part
15.	3	PE	10	263-0031-1-00504	May-June 84	TT:Econ Eva	1/M. Ahmed
16.	3	PE	10	263-0031-1-00509	May-June 84	TT:Econ Eval	1/R. Amin

D: IN PROCESS WITH USAID TRAINING OFFICE:

1.	4	RM1	44	263-0031-1-00505	Mar-Aug 85	Tr/Mac Tst	1/E. Naggat
2.	2	SC	9	263-0031-1-00538	Feb-Apr 85	Ser Centrs	4 part
3.	2	PE	3	263-0031-1-00545	Feb-Apr 85	Farm Mgn	3 part
4.	4	Li	10	(not rec'd yet)	(3 months)	Land Imp	4 part
5.	5	RM1	3	(not rec'd yet)	(3 months)	Sugar Cane	4 part
6.	3	LM	5	263-0031-1-00548	(3 months)	Local Manf	4 part

E. UNDER REVIEW BY THE PROJECT

1.	2	EX	48		(Mar-May 85)	AgMech Ext	4 part
2.	5	RM1	2		(Mar-Aug 85)	AgMech Res	5 part
3.	5	EX	70		(Jun-Aug 85)	AgEq Maint	4 part

Total Technical Training Programs : 35

ANNEX 5.2

FINANCIAL REPORT
Service Centre Subproject

BEST
AVAILABLE

March 1985

Submitted by: Graham G Sparrow M.I. Diag, Eng. (Technical Advisor)

The bank has had very little activity this month as it is awaiting the approval of the loan committee's decisions from the bank's directors since January.

This has meant that clients could not receive any machinery or money for buildings, plus any new clients could not be presented to the next loan committee until the return of the minutes of the previous meeting.

At present there are two applications for service centres in the bank, one in each of the two main branches. The other application is to proceed no further due to the conditions the bank is placing on them. The other one is located in Port of Spain, Trinidad. Basically the project has for all intents and purposes been abandoned as a result.

Although the project has been extended one more year by U.S. AID, I've just learnt that my position won't be extended as everyone has to go.

At the present time we have eight Service Centres in various stages of completion including one that is open and operating with another four applications either at the bank or ready to be presented. It would be nice to see that the whole project of the whole project is just about to finish, that is, starting the service centres with the bank's approval. I think the bank will be able to help in the construction of these centres, that is, to be able to apply for a loan to help in the construction of the bank, the bank is the manager, after the building is completed,

MONTHLY REPORT

Service Centre Subproject

BEST AVAILABLE

Submitted by: Graham G Sparrow. Tech. Advisor.

This month we have received a number of new applications for Service Centres, which are under investigation, unfortunately some of the applicants have no previous business experience or an understanding of a service centres function. They are attracted to the project because they can see it is a way of obtaining cheap "\$\$\$\$" and generally ask the project to compile a complete proposal and agreeing to whatever we may suggest, without submitting anything constructive themselves.

The banks I feel still hazy on the definition of an Agricultural Service Centre, as they send people to us who are requesting money for a commercial vehicle, such as for a washing machine, attention to the commercial vehicles, as we cannot support this type of operation. It is suggested that they could have a loan for an agricultural service centre and then operate in a commercial wash and lub. section, if we were to support such an operation I believe that the agricultural side of the business would die a natural death and the operator would have gained building permission on agricultural land through the project which he would not have been able to obtain for his original request. There is also the opinion among our staff that anybody who owns a piece of land and has acquired some money is automatically qualified to receive a service centre loan.

Our whole subject has ground to a halt, because of the bureaucratic red tape which has been applied to the project over the past few months. Applications that have been approved and have a cost of the money have found that the real paper cannot be issued until it has been passed through the ministry of agriculture and fisheries. It has been such a long time three months or more, in the meantime they offers that we have not had any more null. However, so the project will start again. I think it is a good idea to have a "22".

BEST
AVAILABLE

Due to the inability of the project to complete the processing of the bids, the clients are becoming very angry without some cause, as they are having to pay interest to the bank, but are unable to purchase their equipment in order to generate an income, plus the loss of any grace period which may be applicable.

The bank in El-Dokki has confirmed that Mr Barakat from Kifr Dewar has taken the first installment of his building loan on February 14th valued at L.E.20,000. Mr Baagha from Beni Suef has received another L.E.20,000 for his building.

His application has been approved by the bank in Dakatia, now it must go to the loan committee to be approved and then to the ministry of agriculture to be approved again, this process will take some months more to be completed if we're lucky.

It is my opinion that with all the new constraints imposed on us in the past few months that the project will ultimately become defunct as the private sector businessman draws further away from the project.

BEST
AVAILABLE

Service Centre Development Subproject.

We received a letter from the E. I. C. Bank, Minia, dated 21st January confirming the approval of Diabex's application for a Service Centre, but before they will release any money to the client they request approval from the project, which has already approved the application. The situation now is that the project must submit this request to the loan committee to approve in order to release the monies, then the minutes of the meeting will be sent to the Minister of Agriculture for his approval. The time consumed to pass through this procedure and for the bank to take action is eight to ten weeks, surely this is purely a bureaucratic time wasting system when one considers the fact the director of the project has already approved the technical side when the application was submitted to the bank originally.

Two weeks were set aside this month so that we could take Mr Jeff Lee of U.S.AID who is our project officer to visit some of the small workshops which we have developed or are developing and at the same time visit the Service Centres and their owners that have been completed or still under construction.

On the 2nd January, the loan committee approved eight small workshop loans in Minia governorate, three in qalubia and one in Sharkia. After the meeting I spoke with the chairman of the Kafr El Sheikh bank about the condition of the installation of the roof of which a part of it had been blown off, on Shoukry's service centre, which the bank's engineer had inspected and approved before the second installment of the loan was paid to the client. I was told by the chairman that the bank had approved the second installment despite the defects.

I think the enclosed photo's which were taken on 7th July 22nd speak
for themselves.

At the beginning of the month I reported a serious problem on my
car # 11209 which was inspected by various people. I was informed
that it was alright-O.K. so on Jan. 13th I wrote a letter to Dr. Gaisor
explaining the situation, the cooling system has now been repaired,
but the car was returned with the engine misfiring, turn signals not
working and the outside mirror broken off, I've tried to get it re-
paired through the government garage without success and it appears
that nobody can organise the repairs or authorise them. In the
mean time I have been without transport since the 13th January, we
seem to have been drawn into a Catch22 situation, where we keep
going to and fro but achieving nothing, it will be interesting to
see how long it will take to resolve a simple problem.

Abdo Khir Alla informed us that he has submitted the regist-
ration documents to the bank in Damanhor regarding the land for his
Service Centre and that as soon as the bank has processed it (about
5 weeks) he will be able to take the second installment to enable
him to continue the construction after at least five months down
time.

Finally, we had two members from the PEDAC bank in Cairo come
to us so that we could explain the cash flow sheets we have made
from the figures supplied by the bank to the Service Centre clients
that have signed contracts with the bank, of those we have completed,
our figures indicate, that the client will have to invest some forty
to fifty thousand pounds of his own money (if he has it) in the first
fifteen months in order to keep the business operating and would not
breakeven for three to four years, there have been many talks with
the bank about this situation but nothing is ever resolved, one gets

BEST
AVAILABLE



First Quarterly Report - 1985
 Land Improvement Sub Project
 Submitted by: Dr. Nabil Saif El-Yazl
 Mr. J.A. McClung.

I. Activity During the Quarter:

1. Demonstration Program: During the off season of January - March 1985 the land levelling demonstration program was undertaken on an ad-hoc basis both within project villages and areas outside the project villages. Maintenance and planning were the prime activities during the Quarter. Changes took place with respect to equipment distribution with the field unit in Abyuha being moved to Beni Suef. This move reflects both the completion of the Egyptian Water Use and Management Project and the increase in EAMP capabilities in Beni Suef, Table 1 indicates the areas leveled during the Quarter.

Table 1: Areas Precision Land Leveled January - March 1985

Location	Area Leveled (feddan)
<u>Minya</u>	
Unit 1. Southern Minya	208
Unit 2. Northern Minya (Seila)	145
Unit 3. Northern Minya (Atlat)	139.5
	492.5
<u>Beni Suef</u>	
Unit 4. Southern Beni Suef	130
Unit 5. Northern Beni Suef	140
	270
<u>El Fayoum</u>	
Unit 6. El Fayoum	317 <u>250 plowed</u>
Total	1079.5

During the quarter some equipment was moved from Minya to Beni Suef to bring the number of operating units in Beni Suef to 2. The current distribution of equipment is summarized in Table 2.

Table 2: Distribution of Land Improvement Sub-project Equipment - March 1985.

Governorate	Village	Levelling Units	Tractor/Plow	Miscellaneous (tractors)
Minya	Unit 1: Beni Abeed	5	2	-
	Beni Mousa			
	Unit 2: Seila El-Garbia	4	1	-
	Unit 3: El-Atlat	3	-	1 *
Beni Suef	Unit 4:	4	1	-
	Unit 5:	3		2 **
Fayoum	Unit 6:	4	1	- **
Sub-total		23	5	3

Total

31 tractor
5 Chisel
plow

* with backhoe

23 Scraper

** with Sub-Soiler

3 Sub-Soiler

1 Becckhoe

This move is in time with the project planning to standardize the land levelling units to:

- 4 Tractor / scraper / reciver units
- 1 Tractor / Chisel plow
- 1 Laser transmitter and 1 set-up system.

These small units will work in close cooperation with the extension demonstration program. Additionally a survey unit to serve in a planning, quality control capacity and for field operation will be set up to work with each unit. These units should be commissioned in the 2nd Quarter of 1985 with the receipt of survey equipment.

Total staff in the Project areas has increased by a total of three engineers and 1 mechanic. The new land improvement engineers were assigned in the north and the south of El-Minya Governorate as well as 1 new mechanical engineer and 1 new mechanic for maintenance and service operations in the Governorate. A summary of the technical staff and drivers is presented in Table 3.

Table 3: Land Improvement and Extension Staff in Middle Egypt.

Location	Engineers	Mechanic Full time	Drivers
Cairo	5	?	?
El Minya	12	?	?
Beni Suef	3	?	?
El-Fayoum	2	?	?
	<u>22</u>		

A new engineer was assigned to the Central Office in Cairo for training in Lan Levelling primarily for the 1st Quarter.

The sub-projects demonstration program output since the receipt of the first land levelling through the 1st Quarter of 1985 is summarized in table 4.

Insert (A)

In reviewing the output to date the seasonal nature of land Improvement work is evident. A bulk of the work is carried out in the second and fourth Quarters following the harvest of the Winter and Summer Crops respectively. The third quarter with late planting of maize and the relatively early harvest of soybeans is also a period of relatively high productivity.

El-Fayoum

Table 4:

Summary of land levelled 1983 - 1985.

Period Covered	Minya	Beni Suef	Fayoum
1983			
1st Quarter	45	-	-
2nd "	204	-	-
3rd "	165	-	-
4th "	298	-	-
1984			
1st Quarter	110	-	-
2nd "	310	-	-
3rd "	269	15	-
4th "	944	375	115
1985			
1st Quarter	<u>492.5</u>	<u>270</u>	<u>317</u>
Sub-total	2,837.50	660	432
Total			3,929.5

The first Quarter is the slowest period with little land clear for work. In southern Minya potential exists to increase productivity during this period by working on land to be planted to sugar. In the other Governorates work could be expanded by working in dessert areas or in marginal areas which require reclamation.

In A Preliminary Study of a Precision Land Levelling Service in El-Minya Governorate the LISP estimated costs on the basis of 600 feddan per levelling tractor per year. Using this estimate a productivity of 13,200 feddan per year would be expected with the 22 tractor/levellers working in Middle Egypt. Using the 4th Quarter 1984 Productivity we can estimate about 8,000 feddan being levelled in a year or about 60 - 65% of the 13,200 feddan originally estimated. There is room for improvement and the sub-project staff should work at increasing productivity by increments in the coming quarters of 1985.

A. majority of increases in the productivity of the field units will come from the following:

- improved planning
- improved extension efforts and communication with farmers
- improved training of field staff
- improved maintenance facilities and capabilities.

1st Quarter.

A. second concern with respect to the estimates of productivity is the type of land being levelled. A analysis of field surveys of land levelled in Beni Suef in 1984 indicates that about 40 percent of the area allacady meets the criteria of 80% of field rod readings falling within 12 cm. The fact that this land barely requires levelling also reflects a reduction in the amount of time required for levelling to take place. More careful planning and adherence to the standards set by the project are essential if lands which actually require levelling are to be levelled.