

UNCLASSIFIED 6210107-8  
2D-AMB-590  
Department of State INCOMING A-100  
TELEGRAM

PAGE 01 DAR ES 00328 01 OF 03 252341Z  
ACTION AID-31

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DAR ES 00328 01 OF 03 252341Z 621010700600  
5p

OTHER ORGANIZATIONS NECESSARY TO SUCCESSFUL COMPREHENSIVE DEVELOPMENT.

INFO OCT-02 AF-10 /042 W

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FM AMEMBASSY DAR ES SALAAM  
TO SECSTATE WASHDC PRIORITY 7413

UNCLAS SECTION 1 OF 3 DAR ES SALAAM 0328/1

AIDAC

FOR DEPP, AFR/OR/EAP AND JONES, AFR/OR/ARD

E.O. 11652: N/A  
SUBJ: IN-DEPTH EVALUATION OF AGRICULTURAL RESEARCH PROJECT  
(621-0107)

FOLLOWING IS SCOPE OF WORK FOR SUBJECT EVALUATION:

1. SCOPE OF WORK

A. BACKGROUND

INITIAL AID RESPONSE TO SIGNIFICANT PROBLEMS IN AGRICULTURAL RESEARCH TANZANIA PROMPTED BY 5 MAJOR CONSTRAINTS: UNDERSTAFFING; LACK OF RESEARCH COORDINATION; DEFICIENT REPORTING OF RESEARCH; LACK OF CONTINUITY OF RESEARCH; AND LACK OF FUNDS TO CONDUCT RESEARCH.

ORIGINAL PRP DEVELOPED AN ASSISTANT PROGRAM INVOLVING TRAINING OF TANZANIANS TO STAFF/MAINTAIN ON-GOING RESEARCH PROGRAM AND PROVISION OF EXPATRIATE SCIENTISTS/COMMODITIES/OTHER COST SUPPORT TO DESIGN/INITIATE/DEVELOP AG RESEARCH PROGRAM.

IN 1973, CONTRACT SIGNED WITH IITA (IBADAN) TO LEAD/CARRY OUT PROJECT. SUBCONTRACT SIGNED WITH CIMMYT TO DEVELOP MAIZE RESEARCH.

B. RESULTS TO-DATE:

(1) ALTHOUGH COMPLETE COMPLEMENT SCIENTISTS LATE IN ARRIVING K (1975), SIGNIFICANT ACCOMPLISHMENTS REACHED IN MAIZE RESEARCH (BREEDING OF IMPROVED VARIETIES) AND MAIZE AGRONOMY (RECOMMENDATIONS ON PLANTING, FERTILIZER USAGE, INSECT CONTROL AND WEEDING PRACTICES). 49 VILLAGE TRIALS CONDUCTED 1976.

(2) GRAIN LEGUME BREEDING PROGRAM STARTED 1975. COMMON BEANS, SOY BEAN, AND COWPEAS PRESENTLY BEING RESEARCHED.

(3) 30 PARTICIPANTS COMPLETED 4-6 MONTHS TRAINING AT INTERNATIONAL CENTERS. 5 HAVE COMPLETED DEGREE AND 12 PRESENTLY IN DEGREE TRAINING.

(4) RESEARCH SUPPORT SERVICES AT ILONGA RESEARCH STATION HAVE BEEN UPGRADED; COMPREHENSIVE PLAN FOR STATION DEVELOPMENT DRAWN UP. MATERIALS PROVIDING ADDITIONAL BACKGROUND, CONTRACTOR REPORTS, AND RESEARCH RESULTS BEING POUCHED TO DEPP.

II. GENERAL OBJECTIVES OF EVALUATION:

REASSESS THE PROJECT GOAL AND PURPOSE, DETERMINE THEIR CONTINUED VALIDITY IN LIGHT OF PRESENT ECONOMIC CIRCUMSTANCES/AGRICULTURE PRODUCTION SITUATION WITHIN TANZANIA. THIS ASSESSMENT SHOULD INCLUDE AN EXAMINATION OF RELATIONSHIP OF PROJECT AND OTHER USAID, OTHER DONOR, OR TANZANIAN UNDERTAKINGS TO DETERMINE EXTENT TO WHICH THIS PROJECT REINFORCES, DUPLICATES, OR IS COORDINATED WITH OTHER EFFORTS AND IS CONSISTENT WITH OVERALL TANZANIA AGRICULTURE SECTOR OBJECTIVES. THIS REVIEW SHOULD ALSO INCLUDE EXAMINATION OF CONSTRAINTS TO PROJECT DEVELOPMENT/INTERRELATIONSHIPS WITH

VALIDATE DESIGN AND STRUCTURE OF PROJECT AS FORMULATED IN REVISION NO. 1 OF PROJECT PAPER, WITH RESPECT TO INTERNAL CONSISTENCY, ADEQUACY OF RESOURCES IN RELATION TO REQUIREMENTS, EFFECTIVENESS OF PROJECT IN REACHING OBJECTIVES AT THE OUTPUT, PURPOSE AND GOAL LEVELS.

EVALUATE PERFORMANCE INDIVIDUALLY OF MAJOR PROJECT AGENTS, I.E., CONTRACTORS, TANGOV AND USAID. ANALYZE EFFECTIVENESS OF EACH IN MOVING TOWARD EXPECTED RESULTS THESE PROJECT COMPONENTS. MOST IMPORTANT IS RESEARCH CAPABILITY BEING TRANSFERRED TO TANZANIA STAFF.

III. SPECIFIC EVALUATION TEAM TASKS:

THERE ARE THREE ASPECTS OF RESEARCH OPERATIONS, INCLUDING: MAIZE BREEDING AND AGRONOMIC PROGRAMS; LEGUME BREEDING AND AGRONOMIC PROGRAMS; AND, VERIFICATION OF RESULTS AT THE FARM LEVEL (THIS LATTER ACTIVITY PROVIDES CONVENIENT LINKAGE WITH EXTENSION AGENCIES).

ALL EVALUATION TEAM ASSESSMENTS AND EXAMINATION AS SET FORTH BELOW SHALL BE DIRECTED AT THESE OPERATIONS SEPARATELY AND/OR COMBINED AS APPROPRIATE.

*Handwritten notes and stamps:*  
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PAGE 01 DAR ES 00328 02 OF 03 252347Z  
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DAR ES 00328 02 OF 03 252347Z

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TO SECSTATE WASHDC PRIORITY 7414

UNCLAS SECTION 2 OF 3 DAR ES SALAAM 0328/2

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1. STAFFING

A. ASSESS PRESENT BALANCE OF STAFF AND OTHER RESOURCES PROVIDED BY BOTH IITA AND THE TANGOV.

B. ASSESS PROGRESS MADE TOWARD ACADEMIC AND IN-SERVICE TRAINING AND IN USING TANZANIANS TO CONDUCT ON-GOING RESEARCH.

C. ASSESS CONTRACTOR ABILITY TO SUPPLY HIGH QUALITY STAFF ON TIME AND WITH PROPER QUALIFICATIONS. MAKE RECOMMENDATIONS, IF ANY.

D. REVIEW PROJECTED FUTURE PERSONNEL REQUIREMENTS, BOTH EXPATRIATE AND NATIONAL, NEEDED TO REACH PROJECT OBJECTIVES. RECOMMEND TYPES OF PERSONNEL/BACKGROUND/TRAINING REQUIRED.

E. EVALUATE TYPE/QUALITY OF ACADEMIC TRAINING OF TANZANIAN NATIONALS IN LIGHT OF PRESENT/FUTURE RESEARCH NEEDS. RECOMMEND CHANGES, IF ANY.

F. ASSESS EVIDENCE THAT TANZANIA STAFF HAS CAPABILITY AND IS GAINING CAPABILITY TO TAKE OVER SPECIFIC TASKS (EXAMINE EACH JOB HELD BY AMERICAN).

2. RESEARCH COORDINATION

A. EXAMINE CURRENT ORGANIZATION AND PLANNED EXPANSION OF THE PROJECT. DETERMINE PROPER SCOPE AND DIRECTION TO MEET TANZANIAN FOOD CROP RESEARCH REQUIREMENTS.

B. EXAMINE THE LINKAGES BETWEEN IITA, OTHER ORGANIZATIONS AND TANGOV AND ASSESS ADEQUACY OR NEED FOR REINFORCEMENT.

C. ASSESS PROGRESS BEING MADE BY THE IITA TEAM TOWARD CREATION OF A "NATIONAL" RESEARCH EFFORT FOR MAIZE AND FOOD LEGUMES.

D. ASSESS PROJECT OBJECTIVES IN RELATION TO RECENT TANZANIAN EXPERIENCES WITH FOOD SHORTAGES AND THE NEED TO STRESS SUCH FACTORS AS DROUGHT RESISTANT VARIETIES. MAKE RECOMMENDATIONS.

E. EXAMINE THE PRESENT BALANCE BETWEEN BASIC RESEARCH (BREEDING), FIELD TESTING, ECONOMIC RESEARCH AND FARMING SYSTEMS RESEARCH.

F. ASSESS EVIDENCE OF PERMANENT LINKAGES BETWEEN TANGOV AND THE INTERNATIONAL INSTITUTES AND EVALUATE CHANCES THESE RELATIONS WILL CONTINUE AFTER USAID PARTICIPATION IS WITHDRAWN.

3. REPORTING OF RESEARCH

A. EXAMINE EFFECTIVENESS OF PRESENT METHODS OF OBTAINING FEEDBACK FROM FARMERS ON PRODUCTION PROBLEMS.

B. EXAMINE PROGRESS MADE IN RESEARCH ADMINISTRATION, ORGANIZATION AND THE ESTABLISHMENT OF EFFECTIVE INFORMATION FLOWS, PUBLISHING REPORTS AND BUDGETING ADEQUATE FUNDS FOR SAME.

4. CONTINUITY OF RESEARCH/FUNDING PROBLEMS

A. ASSESS CURRENT AND FUTURE TANGOV BUDGETS IN RELATION TO THE ABILITY OF TANGOV TO ASSUME FULL FISCAL RESPONSIBILITY AND SUPPORT FOR PERSONNEL, EQUIPMENT AND PROJECT OPERATIONS UPON PHASE-OUT OF USAID SUPPORT.

B. EXAMINE THE PHYSICAL RESEARCH FACILITIES, EQUIPMENT AND LAND AT ILONGA RESEARCH STATION TO DETERMINE SUITABILITY FOR CURRENT PROJECT ACTIVITIES AND POSSIBLE FUTURE EXPANSION INTO ROOT CROP RESEARCH AND RICE RESEARCH. IF ILONGA IS NOT DEEMED SUITABLE TENTATIVE RECOMMENDATION SHOULD BE MADE FOR ALTERNATIVE SITES. COMMENT ON FUTURE BUDGET REQUIREMENTS.

5. OTHER

A. ASSESS PROGRESS OF PROJECT TOWARD THE IMPLEMENTATION OF PAST EVALUATION AND CONSULTANTS RECOMMENDATIONS.

B. FIND AND EXAMINE EVIDENCE TO SHOW THAT THE PROJECT IS DIRECTLY BENEFITTING THE SMALL FARMER.

C. DETERMINE PROGRESS MADE IN SUPPLYING IMPROVED VARIETIES TO THE SEED FARMS.

D. DETERMINE PROGRESS IN DEVELOPMENT OF IMPROVED PRODUCTION PACKAGES FOR EACH CROP.

*Handwritten notes:*  
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TO SECSTATE WASHDC PRIORITY 7415

UNCLAS SECTION 3 OF 3 DAR ES SALAAM 0328/3

AIDAC

E. DETERMINE PROGRESS MADE WITH REGARD TO FARMERS ADOPTING NEW VARIETIES AND ASSESS THE EFFECTIVENESS OF METHODS USED TO MEASURE ADAPTATION.

F. DETERMINE IF THE RESEARCH PROGRAM IS RESPONDING TO FARMER NEEDS VIS A VIS THE MULTICROPPING PATTERN PRESENTLY IN PRACTICE BY THEM.

G. PREPARE AN UP-DATED PAR REPORT.

IV. EVALUATION TEAM COMPOSITION

THE EVALUATION TEAM MUST COMPRISE INDIVIDUALS EXPERIENCED IN AGRICULTURAL RESEARCH ADMINISTRATION, MAIZE AND FOOD LEGUMES BREEDING AND AGRONOMIC RESEARCH AND RESEARCH-FARM INFORMATION LINKAGES. NOMINATIONS SHOULD BE CABLED TO MISSION FOR APPROVAL PRIOR TO CONTRACTOR SELECTION, AND APPROVED TEAM SHOULD HAVE THOROUGH INOCULATION ON AID EVALUATION PROCEDURES WITH ACCESS TO 621-0107 AID/W FILE.

A. SPECIFIC REQUIREMENTS

1. AGRICULTURAL RESEARCH ADMINISTRATOR - 4 PERSON WEEKS. THIS PERSON SHOULD HAVE NO LESS THAN 5 YEARS' EXPERIENCE IN THE DESIGN AND IMPLEMENTATION OF BASIC/APPLIED RESEARCH IN FOOD GRAIN BREEDING AND AGRONOMY, INCLUDING THE PROCESSES OF RESEARCH DESIGN, PERSONNEL STAFFING, BUDGETING AND CURRICULUM DESIGN. EXPERIENCE IN THE DESIGN OF NATIONAL AGRICULTURAL RESEARCH PROGRAMS IN DEVELOPING COUNTRIES IS ESSENTIAL.

MOST LIKELY SOURCE WOULD BE LAND GRANT UNIVERSITY PERSON AT DEPARTMENT HEAD AND/OR ASSISTANT/ASSOCIATE DEAN LEVEL.

2. MAIZE BREEDING AGRONOMIST - 3 PERSON WEEKS THIS PERSON SHOULD HAVE AT LEAST 3 YEARS' EXPERIENCE IN CORN BREEDING WITH ALLIED EXPERIENCE IN OTHER CROPS, I.E. SORGHUM AND OILSEEDS. SHOULD BE KNOWLEDGEABLE OF AND/OR HAVE WORKED WITH INTERNATIONAL RESEARCH CENTERS (CIMMYT, IITA). EXPERIENCE IN AFRICA IS PREFERRED. (SUGGEST DR. CLYDE WASSOH, KANSAS STATE UNIVERSITY), DR. DOGGETT, DR. FRED MILLER, TEXAS A&M UNIVERSITY.

3. FOOD LEGUME AGRONOMIST - 3 PERSON WEEKS THIS PERSON SHOULD HAVE AT LEAST 3 YEARS' EXPERIENCE IN FOOD LEGUMES BREEDING AND AGRONOMIC RESEARCH. SHOULD BE KNOWLEDGEABLE OF AND/OR HAVE WORKED WITH INTERNATIONAL RESEARCH CENTERS (E.G. CIMMYT, IITA).

4. AGRICULTURE INFORMATION SPECIALIST - 5 PERSON WEEKS THIS PERSON MUST BE FAMILIAR WITH THE UNIQUE PROBLEMS OF AGRICULTURAL EXTENSION IN AFRICA. HE/SHE SHOULD UNDERSTAND AND BE ABLE TO ARTICULATE THE PROBLEMS AND POTENTIAL OF 2-WAY AGRICULTURAL RESEARCH - EXTENSION LINKAGES BETWEEN THE LABORATORY AND THE FARMER. HE/SHE SHOULD BE HIGHLY FAMILIAR WITH METHODS OF DISSEMINATION OF REPORTS, BROCHURES AND OTHER INFORMATION PACKAGES TO FARMERS.

V. EVALUATION REPORT

THE TEAM WILL BE EXPECTED TO SUBMIT AND REVIEW WITH USAID AND TANGOV A DRAFT OF THE FINAL EVALUATION REPORT BEFORE DEPARTING FROM TANZANIA.

VI. FUNDING REQUIRED

A. SALARIES -	
3.75 PERSON MONTHS @ \$4,500	16,875
B. INTERNATIONAL TRAVEL -	
4 PERSONS US - DAR - US @ \$2,000	8,000
C. PER DIEM	5,500
D. LOCAL TRAVEL/OTHER EXPENSES	1,000
E. CONTINGENCY	625
	-----
TOTAL	\$32,000

REQUEST AFR PROVIDE PDS FUNDS FOR EVALUATION AND EXPEDITE RECRUITMENT

VII. TIMING OF EVALUATION

THE EVALUATION TEAM SHOULD BE IN PLACE IN TANZANIA NO LATER THAN APRIL 1, 1978. APPROXIMATELY 3 WEEKS WILL BE REQUIRED FOR FIELD SITE VISITS AND TRAVEL. FINAL WEEK WILL BE REQUIRED FOR DRAFTING THE EVALUATION REPORT AND FINAL REVIEW MEETINGS WITH USAID AND TANGOV OFFICIALS.

THE AG RESEARCH ADMIN. AND AG INFORMATION SPECIALISTS SHOULD ARRIVE AT LEAST ONE WEEK BEFORE THE TWO AGRONOMISTS TO BEGIN COMPILING EXISTING INFORMATION/DATA AND TO HOLD DISCUSSIONS ON THE STRUCTURE OF THE RESEARCH DIVISION OF THE MINAG.

THE ENTIRE TEAM MUST PLAN TO STAY IN TANZANIA THAT PORTION OF THE FINAL WEEK NECESSARY FOR EACH INDIVIDUALS CONTRIBUTION TO BE FINALIZED AND READY FOR INCLUSION IN THE FINAL DRAFT REPORT.

THE TEAM MEMBERS RESPONSIBLE FOR WRITING THE FINAL REPORT MUST PLAN TO REMAIN AT LEAST AN ADDITIONAL WEEK AFTER ALL MATERIAL IS SUBMITTED TO ENABLE AMPLE TIME FOR THE FINAL DRAFT TO BE CONSIDERED BY THE MISSION AND ANY SUGGESTIONS OR CORRECTIONS TO BE ADDRESSED.

VIII. OTHER

TEAM MEMBERS SHOULD HAVE ALL INNOCULATIONS (ESPECIALLY CHOLERA) AND VISAS BEFORE ARRIVING TANZANIA. THEY SHOULD HAVE ROUND-TRIP TICKETS US - DAR - US WITH RETURN PORTION OF TICKETS LEFT "OPEN". THEY SHOULD CARRY SUFFICIENT TRAVELERS CHECKS OR PERSONAL CHECKS. PERSONAL CHECK CASHING PRIVILEGES AVAILABLE U.S. EMBASSY DAR ES SALAAM.

WALKER

*[Handwritten notes and stamps, including "AFR", "30", "20", "10", "01", "02", "03", "04", "05", "06", "07", "08", "09", "10", "11", "12", "13", "14", "15", "16", "17", "18", "19", "20", "21", "22", "23", "24", "25", "26", "27", "28", "29", "30", "31", "32", "33", "34", "35", "36", "37", "38", "39", "40", "41", "42", "43", "44", "45", "46", "47", "48", "49", "50", "51", "52", "53", "54", "55", "56", "57", "58", "59", "60", "61", "62", "63", "64", "65", "66", "67", "68", "69", "70", "71", "72", "73", "74", "75", "76", "77", "78", "79", "80", "81", "82", "83", "84", "85", "86", "87", "88", "89", "90", "91", "92", "93", "94", "95", "96", "97", "98", "99", "100"]*

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TELEGRAM

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ORIGIN AID-54

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INFO OCT-01 AF-10 /065 R

DRAFTED BY AFR/DR/EAP: JDEFLER:HRP  
APPROVED BY AFR/DR: JMKOENRING  
AFR/DR/EAP: VWOLFF  
AFR/DR: HCOHEN  
AFR/EA: HJOHNSON/EKLINE (DRAFT)  
AFR/DR/ENG: DDAVIES/ZOBRIST (DRAFT)  
AFR/DR/EHR: FMOORE/DICKSON (PHONE)  
AFR/DR/SDP: JNIXON (DRAFT)  
DS/AGR, KINCHEMOTT/WARREN (PHONE)  
DS/RES, JERICKSON (INFO)  
GC/AFR: JPATTERSON (INFO)  
AFR/DR/ARD: HJOHNSON/BWHITTLE (DRAFT)  
PPC/PCRR/RO: ELIJEWSKI (DRAFT)  
AFR/DP: CWARD (INFO)  
DESIRED DISTRIBUTION  
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621-107

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FM SECSTATE WASHDC  
TO AMEMBASSY DAR ES SALAAM  
INFO AMEMBASSY HAIROBI

UNCLAS STATE 299131

AIDAC, HAIROBI PASS REDSO FOR INFO

E.O. 111652 N/A

TAGS:

SUBJECT: AGRICULTURAL RESEARCH PROJECT 621-D107

1. PROJECT COMMITTEE MET OCTOBER 2, 1978 TO REVIEW SUBJECT PROJECT'S EVALUATION REPORT AND A PROPOSED SECOND PP AMENDMENT WHICH WOULD ADD ROOT CROPS TO CURRENT RESEARCH. THE POSSIBILITY OF A THIRD AMENDMENT TO ADD RICE ALSO WAS DISCUSSED. ALTHOUGH THE COMMITTEE HAD ANTICIPATED EITHER APPROVING OR REJECTING THE PROPOSED SECOND AMENDMENT, IT AGREED TO RECOMMEND DEFERRING THIS DECISION PENDING SUBMISSION OF SUPPLEMENTARY DATA AND ANALYSES.

2. THE EVALUATION REPORT REVIEWED AT THE MEETING WAS DEEMED DEFICIENT IN SEVERAL RESPECTS:

-- (A) IT DID NOT PROVIDE SUFFICIENT DATA FOR DETERMINING WHETHER CURRENT PROJECT OBJECTIVES ARE BEING MET;

-- (B) IF OBJECTIVES ARE NOT BEING MET, IT DID NOT INCLUDE RECOMMENDATIONS FOR IMPROVEMENT;

-- (C) EVEN IF OBJECTIVES ARE BEING MET, IT DID NOT ANALYZE WHETHER--AND IF SO, HOW--THE PROJECT COULD BE STILL MORE EFFECTIVE;

-- (D) IT DID NOT PROVIDE SUFFICIENT INFORMATION UPON WHICH TO BASE A DECISION FOR ADDITIONAL EXPENDITURES FOR THE PROJECT;

-- (E) IT DID NOT GIVE SPECIFIC TECHNICAL INFORMATION JUSTIFYING NEW CROPS;

-- (F) IT DID NOT MAKE RECOMMENDATIONS FOR DESIGN CHANGES WHICH MIGHT BE NEEDED TO RENDER THE CURRENT PROJECT AMENABLE TO NEW COMPONENTS (ROOT CROPS AT PRESENT AND RICE IN THE NEAR FUTURE); AND,

-- (G) IT DID NOT CRITIQUE IITA'S MANAGEMENT PERFORMANCE. COMMITTEE UNDERSTANDS THAT ROBERT JACKSON, AN EVALUATION TEAM MEMBER PRESENTLY-IN THE FIELD, IS WORKING TO PROVIDE THIS INFORMATION DIRECTLY TO USAID FOR INCLUSION IN A PID/PP (SEE PARA 8 BELOW).

3. REGARDING THE SECOND PP AMENDMENT, COMMITTEE HAD THE FOLLOWING CONCERNS:

-- (A) AN EXTENSION COMPONENT RELATING RESEARCH TO PROBLEMS IDENTIFIED BY FARMERS SHOULD BE INCORPORATED INTO ALL AGRICULTURAL RESEARCH EFFORTS, BOTH PRESENT AND FUTURE.

-- (B) MORE ON-THE-JOB TRAINING OF TANGOV COUNTERPART PERSONNEL SHOULD BE PROVIDED; AND,

-- (C) THE COMMITTEE HAS BEEN TOLD THAT RICE WILL BE THE LAST ADDITION TO THE PROJECT. THE PP AMENDMENT SHOULD MAKE AN EXPLICIT STATEMENT TO THIS EFFECT TO AVOID NUMEROUS, UNSPECIFIED CROPS BEING REQUESTED AS ADDITIONAL COMPONENTS IN THE FUTURE. THIS STATEMENT IS ESSENTIAL IN LIGHT OF THE EVALUATION REPORT'S OBSERVATION THAT THE CURRENT PROJECT MAY NOT BE SUPPORTED ADEQUATELY BY TANGOV.

4. REGARDING IMPLEMENTATION OF AN EXPANDED PROJECT, THE COMMITTEE HAS THE FOLLOWING COMMENTS:

-- (A) THE SOLE SOURCE PROCUREMENT OF IITA SHOULD BE REVIEWED IN THE CONTEXT OF A SUBSTANTIAL FUNDING LEVEL ESCALATION, FROM ORIGINAL DOLS. 2 MILLION TO PRESENT DOLS. 8 MILLION (RESULTING UPON A FIRST AMENDMENT ADDING SORGHUM AND MILLET), TO A PROPOSED DOLS. 10 MILLION (IF SECOND AMENDMENT ADDING ROOT CROPS IS APPROVED) TO A POSSIBLE DOLS. 12 MILLION (IF A THIRD AMENDMENT FOR RICE IS APPROVED); AND, ACCORDINGLY,

-- (B) A PREDOMINANT CAPABILITY WAIVER SHOULD BE SUBMITTED BY USAID IF IT INTENDS TO USE IITA FOR RESEARCH BEYOND THAT CURRENTLY UNDERTAKEN.

5. REQUEST MISSION PROVIDE INFORMATION ON OVERALL TANGOV AGRICULTURAL RESEARCH PROGRAM AND MANNER IN WHICH AND EXTENT TO WHICH USAID'S AGRICULTURAL RESEARCH EXPERTISE MIGHT CONTRIBUTE EFFECTIVELY TO TANGOV PROGRAM. THIS MAY BE DONE AS PART OF WINTER REVISION TO CDSS, THUS PROVIDING PART OF THE GENERAL FRAMEWORK IN WHICH RESEARCH PROJECTS WILL BE CONSIDERED.

6. THE COMMITTEE ARTICULATED THE FOLLOWING OPTIONS FOR UTILIZATION OF JACKSON'S INFORMATION:

-- (A) PP AMENDMENT FOR ROOT CROPS ONLY, ANY OTHER COMPONENTS TO BE ADDRESSED IN NEW PID; OR,

-- (B) NO PP AMENDMENT BUT NEW PID/PP TO DEAL WITH ALL ADDITIONAL COMPONENTS. THESE OPTIONS ARE TO BE CONSIDERED ONLY AFTER THOROUGHLY CONSIDERING THE ADVISABILITY OF ADDING ANY NEW COMPONENTS AND RESOLVING THE ISSUE IN THE AFFIRMATIVE.

7. COMMITTEE RECOMMENDED BRINGING THESE ISSUES TO THE ATTENTION OF AA/AFR THROUGH A INFORMATION MEMORANDUM RATHER THAN AN ECPR AT THIS JUNCTURE.

8. THE COMMITTEE UNDERSTANDS THAT USAID, SUBSEQUENT TO ITS MEETING, HAS DECIDED TO GO FORWARD WITH A NEW PID IN LIEU OF RESUBMISSION OF THE PP AMENDMENT 2, AND THAT A PID IS BEING PREPARED. AID/W CONCURS WITH THIS APPROACH.

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CHRISTOPHER

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AID 1880-1 (8-68)  PIO/T	DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT  PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	<input type="checkbox"/> Worksheet <input checked="" type="checkbox"/> Issuance	PAGE 1 OF 11 PAGES 11p.
		1. Cooperating Country Tanzania	2. PIO/T No. 621-107-3-10001
		3. Project/Activity No. and Title 621-11-110-107 Agriculture Research	

4. Appropriation Symbol 72-1111004		5. a. Allotment Symbol & Charge 154-50-621-00-69-11		5. b. Funds Allotted to: <input type="checkbox"/> AID/W <input checked="" type="checkbox"/> Mission	
6. Obligation Status <input type="checkbox"/> Administrative Reservation <input type="checkbox"/> Obligation <input checked="" type="checkbox"/> Sub-Obligation				7. <input checked="" type="checkbox"/> Original or Amendment No.: _____	
8. No. of Technicians 5	9. Services to Start (Mo., Day, Yr.) Between: 9/15/70 And 10/30/70		10. Duration (Months) a. Of Services 4 b. Of Financing 4		
11. a. Type of Action <input checked="" type="checkbox"/> AID Contract <input type="checkbox"/> Cooperating Country Contract <input type="checkbox"/> Participating Agency Service Agreement <input type="checkbox"/> Other					
11. b. Authorized Agent AID/Washington					
Financing \$1.00 =		A. Previous Total	B. Increase	C. Decrease	D. Total to Date
12. AID Financing a. Dollars			\$70,000		\$70,000
b. U.S.-Owned Local Currency					
13. Cooperating Country Contributions a. Counterpart					
b. Other					

14. Mission  
References  
Dar es Salaam  
1887  
State 122822  
Dar es Salaam  
2113

15. Objective for which the Technical Services are to be used (Describe)  
The broad objective of the agricultural research study team is to prepare a report that will assist Tanzania in determining the most economical agricultural research program required to meet Tanzania's needs for maximum agricultural and rural development within the next 10-15 years.

16. Mission Clearances	Date	Mission Clearances	Date

17. Date of Original Issuance  
August 25, 1970

18. Date of this Issuance  
August 25, 1970

19. For the Cooperating Country  
The terms and conditions set forth herein are hereby agreed to:

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
DATE

\_\_\_\_\_  
TITLE

20. For the Agency for International Development

*John W. Waters*  
SIGNATURE

\_\_\_\_\_  
TITLE

<b>PIO/T</b>	<b>DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT</b>	<input type="checkbox"/> Worksheet <input checked="" type="checkbox"/> Issuance	<b>PAGE 2 OF 11 PAGES</b>
	<b>PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES</b>	Cooperating Country Tanzania	PIO/T No. 621-107-3-10001
		Project/Activity No. and Title 621-11-110-107 Agriculture Research	

**SCOPE OF WORK****21. Scope of Technical Services****A. Description**

Each specialist will be required to submit a draft report in his area of specialization and make technical recommendations to the team leader following the scope-of-work and outline for the team's report as follows:

The scope-of-work will include but not necessarily be limited to the following:

1. A field study period of about three months in Tanzania (and Uganda and Kenya, as may be necessary), involving five agriculture researchers plus short-term consultants, to obtain information on research facilities and activities, and to consult with agriculture researchers and other personnel of the GOT on the nation's research needs; review and evaluate the current research program; and make recommendations for optimum improvement of the research system.
2. Formulate a detailed, time-phased national research system and development program for Tanzania, for research on the broad field of agriculture, to serve as an integral part of national development.

(Continued)

**B. Technicians**

(1) (a) Number	(b) Specialized Field	(c) Grade and/or Salary	(d) Duration of Assignment (Man-Months)
1	Crops, Range, Soils Specialist/ Team Leader	FSR-3 Level	NTE 4
1	Natural Resources Specialist	FSR-3 Level	NTE 3
1	Livestock Specialist	FSR-3 Level	NTE 3
1	Agriculture Production Economist	FSR-3 Level	NTE 3
1	Agriculture Marketing Economist	FSR-3 Level	NTE 3

Non-AID financed specialist from other donors will participate in the study. Supplemental short-term assistance may be provided by both AID and other donor (Continued)

(2) Duty Post and Duration of Technicians' Services

Dar es Salaam with travel throughout Tanzania plus occasional travel in other East African countries as deemed necessary. NTE 90 days in East Africa. Team Leader may be required for two weeks in AID/W before and after service in East Africa.

(3) Access to Classified Information

None

(4) Dependents     Will     Will Not    Be Permitted to Accompany Technician    except at his own expense.

**C. Financing Costs of Technical Services**

(1) By AID - \$ 70,000

(2) By Cooperating Country - None

AID 1890-1 (8-68)	<b>DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT</b>  <b>PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES</b>	<input type="checkbox"/> Worksheet <input checked="" type="checkbox"/> Issuance	PAGE 3 OF 11 PAGES
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22. Equipment and Supplies (Related to the services described in Block 21 and to be procured outside the Cooperating Country by the supplier of these services)

<u>A. (1) Quantity</u>	<u>(2) Description</u>	<u>(3) Estimated Costs</u>
None		

B. Financing Costs of Equipment and Supplies

(1) By AID - \$

(2) By Cooperating Country -

23. Instructions to Authorized Agent

AID/W will negotiate contracts with highly qualified individuals for a period of approximately three or four months each (per Block 21B (1) (d)) to conduct a study of Tanzania's Agricultural Research Program and prepare a plan recommending the most economical Agriculture Research Program to meet Tanzania's needs.

24. Special Provisions

- A. This PIO/T is subject to AID contract regulations.
- B. Where housing has been provided by USAID, or Host Government, the per diem shall be reduced 35%.
- C. Members of the survey team shall meet in AID/W (AFR/ESA) as a Group for briefing purposes prior to U.S. Departure.
- D. One member of the team shall be designated Team Leader who shall be responsible for maintaining liaison with USAID/Dar es Salaam and for finalizing the team's report.

<b>PIO/T</b>	<b>DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT</b>	<input type="checkbox"/> Worksheet <input checked="" type="checkbox"/> Issuance	<b>PAGE 4 OF 11 PAGES</b>
	<b>PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES</b>	Cooperating Country Tanzania	PIO/T No. 621-107-3-10001
		Project/Activity No. and Title 621-11-110-107 Agriculture Research	

**25. Reports by Supplier of Services (Indicate type, content and format of reports required, including language to be used if other than English, frequency or timing of reports and any special requirements)**

A working draft report will be prepared in Tanzania for review, discussion and approval by appropriate officials in the Ministry of Agriculture, Food and Cooperatives (MAFC) and USAID prior to departure from Tanzania. After returning to the U.S., the team will review the draft report with appropriate AID/W staff and incorporate any changes or corrections, if any, deemed necessary by AID/W. 100 copies of the final report will be submitted to AID/W within 30 days after review of the draft report in AID/W.

**26. Availability of Background Information (Additional information useful to Authorized Agent and Prospective Suppliers; if necessary, cross reference Block 21.B(3) above)**

Background information will be made available in AID/W, USAID/Tanzania, and the Tanzanian MAFC.

**27. Relationships of Supplier to Cooperating Country and to AID.**

**A. Relationships and Responsibilities**

The contractor(s) will come under the general direction of the Ministry of Agriculture and the USAID/Tanzania Food and Agriculture Officer, and under the policy guidance of the Director, USAID/Tanzania.

**B. Cooperating Country Liaison Official**

Director of Agriculture and/or Principal Secretary, MAFC.

**C. AID Liaison Officials**

Food and Agriculture Officer, USAID/Tanzania.

AID 1390-1 (8-69)	<b>DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT</b>  <b>PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES</b>	<input type="checkbox"/> Worksheet	<input checked="" type="checkbox"/> Issuance	PAGE 5 OF 11 PAGES
		Cooperating Country Tanzania		PIO/T No. 621-107-3-10001
		Project/Activity No. and Title 621-11-110-107 Agriculture Research		

**LOGISTIC SUPPORT**

28. Provisions for Logistic Support	In Kind Supplied By		From Local Currency Supplied By	
	AID	Cooperating Country	AID	Cooperating Country
A. Specific Items (Insert "X" in applicable column at right. If entry needs qualification, insert asterisk and explain below in C. "Comments")				
(1) Office Space		X		
(2) Office Equipment		X		
(3) Housing and Utilities N.A.				
(4) Furniture N.A.				
(5) Household Equipment (Stoves, Refrig., etc.) N.A.				
(6) Transportation in Cooperating Country		X 1/		
(7) Interpreter Services		X		
Other: (Specify) (8) Secretarial Services	X 2/			
(9)				
(10)				
(11)				
(12)				
(13)				
(14)				
(15)				

**B. Additional Facilities Available From Other Sources**

- 1/ USAID will arrange necessary transportation within Tanzania not otherwise supplied by the host government. Team members will be required to finance air transportation via commercial airlines to Kenya and Uganda as appropriate which will be reimbursable under this PIO/T.
  
- 2/ USAID will arrange secretarial services funded outside the contract. The facilities and logistic support determined by the USAID to be essential to the success of this survey and which are not otherwise provided by the TANGOV will be provided to extent possible from available mission resources. Should support, however, require new procurement or costs beyond that of normal mission operations, project documentation will be amended to permit USAID/Tanzania to secure the required services.

**C. Comments**

Block 21 A (Continued)

- In formulating the national research system, full consideration will be given to areas of priority and joint research programs with other national, regional, and international research institutions to avoid duplication of efforts. This will include recommendations re the role that the newly developing Faculty of Agriculture at Morogoro should play in development of research.
3. Identify the respective priorities for research to support essential agricultural and rural development.
  4. Develop structural and functional designs by relations and components for a viable research system and a program for its development, to serve evident subject matter and socio-economic needs, consistent with phasing of funds, research resources, and availability development of scientific manpower.
  5. Formulate guidelines for research on the economics of production to support plans and programs for agricultural and rural development, to include:
    - (a) Identification and recommendation on types of agriculture for specific ecological zones -- rangeland, cropping, livestock enterprises, forestry, wildfire and recreation.
    - (b) Data on unit costs of production, and probable costs upon application of modern science and technology.
    - (c) Opportunities for improvement in production through efficient farm management practices.
    - (d) Data on efficiency in supplying production inputs, and the influence of timelines of operations, techniques of application, availability of credit, etc.
    - (e) Policy research on functions, structural components, and institutionalizing markets, price relations, and rural infrastructure, on services, inputs and production.
    - (f) Evaluations on communications and utilization of agricultural science and technology by cultivators and policy decision makers.
  6. Formulate study guidelines on the economic aspects of agricultural marketing from production through to ultimate utilization, to provide sound economic data and principles as a basis for guiding

Block 21 A (Continued)

government decision on pricing, guarantees of markets, storage facilities and practices, processing, distribution to consumption centers, export controls and practices, and related aspects.

Special attention should be given to the need for providing dependable economic data, and to its interpretation, to guide the parastatal institutions programs and operations which profoundly influence the agricultural economy. Also, provide available economic information derived from researches on marketing and utilization of agricultural commodities, that will be useful to the Government in making decisions.

Full consideration will be given to information in the AID financed MSU study and the UNDP Market Research Institute in order to avoid duplication of effort.

7. Propose a plan and realistic time-table with suggested procedures and alternatives of staffing the recommended research system, and for educating and training Tanzanians to fill research staff positions and provide the leadership for the research system.
8. Propose guidelines for periodic evaluation and revision of agricultural research objectives, organizational patterns, and scientific manpower management that will insure adjustment to any changes in national objectives without impairment of the essential continuity of the research effort. These guidelines should include any needed adjustments in incentives to attract highly capable people to the research establishment, and rewards that are commensurate with accomplishments. There should be provision for continuity of important lines of research, as well as for reasonable stability in assignment of researchers.
9. Formulate an agricultural economic research program, with proposed staffing organization and administration, to provide basic economic information on agriculture on an objective basis.
10. Analyze problems in expanding grassroots level social and economic studies and in linking the results of socio-economic research to local, regional and national agriculture planning. Although emphasis will be on agriculture research, cognizance will be given as to how socio-economic research findings can be merged with technical agricultural research in order that agricultural programs can be better planned and more effectively implemented.

11. Prepare as an appendix to the team report a draft model project proposal for one or two of the national agricultural research priorities prior to departure from Tanzania. The following outline is to be followed in the organization of this paper:

- (a) Summary Description, including tabulation of planned inputs,
- (b) Setting or Environment,
- (c) Strategy,
- (d) Planned Targets, Results, and Outputs, and
- (e) Course of Action, Method of Approach.

This project proposal should be prepared in a format that the Tanzanian Government could use it, and/or develop similar proposals in other priority areas, for their own programming process or for submission to international donors for technical assistance.

12. A draft report of the agriculture research study will be completed for review of USAID and the Ministry of Agriculture Food and Cooperatives, prior to the team's departure from Tanzania. It should include the following sections:

- A. Summary and Recommendations
- B. Introduction: Reasons for the Study
- C. Agricultural Development in Tanzania; and Production Goals for the 1970's
- D. Problems and Areas Requiring Research Attention listed in order of economic priority
- E. Development of a short and long-range agricultural research system in Tanzania
- F. Administration and agricultural staffing of the agricultural research organization
- G. Cooperation between the Agricultural Research Division, and the Faculty of Agriculture to achieve adequate education and training of agricultural specialists and leaders

- H. Extension of Research Results
- I. Coordination of research with the National Scientific and Research Council University; and with agricultural development agencies of the Government.
- J. Coordination and mutual interaction of the national agricultural research program with regional and international agricultural research programs.
- K. Appendix -- Project Proposal for one or two of the national agricultural research priorities.

Block 21. B (1) (Continued)

specialists both inside and outside Tanzania. The following are the desired qualifications and responsibilities for each of the individuals who will participate in the study team:

(a) Natural Resources Specialist:

Professional Training: At least a B.S. degree but preferably a PhD in soil science or agronomy, and 10 years experience in soil mapping and classification of land capabilities or the interpretation of such information for different kinds of use -- such as range, forestry, cropping, livestock farming, irrigation, etc. He should have had two or more years of field experience in less developed countries, preferably in Africa. This experience should have included -- planning for effective uses of land of the various classes. Such planning should have included water conservation and management suited to land and soil classes, under prevailing climatic conditions.

Responsibilities: To serve on a five-man team charged with making a comprehensive study of agricultural research needs of Tanzania, and preparing a report for the Government of Tanzania, with recommendations for an appropriate plan to meet evident agricultural research needs. The natural Resources Specialist will provide leadership on land and soil resources, water resources, and on use of resources for forestry, cropping, livestock production, wildfire programs.

(b) Specialist on Cropping, Farming Systems and Range Management

Professional Training: Must have a B.S. degree but preferably a PhD degree in Agronomy or Soil Science with 10 or more years of experience in research on crop production, cropping and forage production systems, and organization and administration of agricultural research organizations.

Block 21. B (1) (Continued)

He should have had at least four months of recent advisory service on agricultural development in less developed countries. Preferably, he should have familiarity with current agricultural research in Tanzania.

Responsibilities: To serve as the leader of a five-man team charged with making a comprehensive study of agricultural research needs of Tanzania, and with preparation of a report for the Government of Tanzania, with recommendations for an appropriate plan to meet evident agricultural research needs. This Specialist will provide expert knowledge on all aspects of crop production, range management, production of livestock feed, and farming systems. He will be responsible for coordinating the team efforts in preparation of the final report for the Government.

(c) Livestock Specialist:

Professional Training: Must have a B.S. degree but preferably a PhD degree in some aspect of animal science, or a DVM degree; with 10 or more years of successful experience on animal science research and development in one or more of the fields of; animal breeding, animal health, animal nutrition, animal physiology, or animal husbandry and production. He should have had at least two years of service in one or more of the foregoing fields in a less developed country, preferably in the tropics or sub-tropics.

Responsibilities: To serve as the Livestock and Wildfire Specialist on the five-man team charged with making a comprehensive study of agricultural research needs of Tanzania, and with preparation of a report to the Government of Tanzania, with recommendations for an appropriate plan to meet evident agricultural research needs. This specialist will provide expert knowledge on all aspects of livestock production and the research needed to support and stimulate such production. He will participate in preparation of the final report to the Government.

(d) Specialist on Economics of Agricultural Production:

Professional Training: Must have a B.S. degree but preferably a PhD degree in some aspect of Agricultural Economics; and have had 10 or more years of significant experience in the field of economics of agricultural production, with particular reference to research in this field. He should have had substantial service in agricultural economics in less developed countries, particularly in the tropics or sub-tropics.

Block 21. B (1) (Continued)

Responsibilities: To serve as the Specialist in Production Economics, on a five-man team charged with making a comprehensive study of the agricultural research needs of Tanzania, and with preparation of a report to the Government of Tanzania, with recommendations for an appropriate plan to meet evident agricultural research needs. This Specialist will provide expert knowledge on agricultural production economics, and on the research in this field needed to support and stimulate agricultural production. He will participate in preparation of the final report to the Government.

(e) Specialist in Marketing of Agricultural Commodities:

Professional Training: Must have a B.S. degree but preferably a PhD degree in Agricultural economics; and have had 10 years or more of significant experience in Marketing of Agricultural Commodities, with particular reference to research in this field.

He should have had substantial experience in Agriculture Marketing in less developed countries, particularly in the tropics or sub-tropics.

Responsibilities: To serve as the Specialist in Agricultural Marketing, from producer to ultimate consumer, on a five-man team charged with making a comprehensive study of the agricultural research needs of Tanzania; with preparation of a report to the Government of Tanzania, with recommendations for an appropriate plan to meet evident agricultural research needs. This Specialist will provide expert knowledge on Marketing of Agricultural Commodities and of the research needed to support this phase of agricultural development. He will participate in preparation of the final report to the Government.

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		1. Cooperating Country Tanzania	2. PIO/T No. 621-107-2-10002
		3. Project/Activity No. and Title 621-11-110-107 Agriculture Research	

4. Appropriation Symbol 72-1111004	5. a. Allotment Symbol & Charge 154-50-621-00-69-11	5. b. Funds Allotted to: <input type="checkbox"/> AID/W <input checked="" type="checkbox"/> Mission																																
6. Obligation Status Pro/Ag 71-1 signed August 21, 1970 is the obligating document. <input type="checkbox"/> Administrative <input type="checkbox"/> Reservation <input type="checkbox"/> Obligation <input checked="" type="checkbox"/> Sub-Obligation		7. <input checked="" type="checkbox"/> Original or Amendment No.:																																
8. No. of Technicians 2	9. Services to Start (Mo., Day, Yr.) Between: 9/25/70    And: 10/30/70	10. Duration (Months) a. Of Services 3    b. Of Financing 3																																
11. a. Type of Action <input type="checkbox"/> AID Contract <input type="checkbox"/> Cooperating Country Contract <input checked="" type="checkbox"/> Participating Agency Service Agreement <input type="checkbox"/> Other																																		
11. b. Authorized Agent AID/Washington through USDA																																		
12. AID Financing																																		
<table border="1"> <thead> <tr> <th>Financing \$1.00 =</th> <th>A. Previous Total</th> <th>B. Increase</th> <th>C. Decrease</th> <th>D. Total to Date</th> </tr> </thead> <tbody> <tr> <td>a. Dollars</td> <td></td> <td>\$20,000</td> <td></td> <td>\$20,000</td> </tr> <tr> <td>b. U.S.-Owned Local Currency</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="5">13. Cooperating Country Contributions</td> </tr> <tr> <td colspan="5">a. Counterpart</td> </tr> <tr> <td colspan="5">b. Other</td> </tr> </tbody> </table>					Financing \$1.00 =	A. Previous Total	B. Increase	C. Decrease	D. Total to Date	a. Dollars		\$20,000		\$20,000	b. U.S.-Owned Local Currency					13. Cooperating Country Contributions					a. Counterpart					b. Other				
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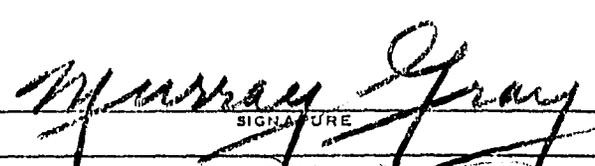
14. Mission References  
 DAR 1887  
 STATE 122822  
 DAR 2113  
 DAR 2170  
 STATE 14-1412  
 DAR 2273

15. Objective for which the Technical Services are to be used (Describe)  
 The broad objective of the agricultural research study team is to prepare a report that will assist Tanzania in determining the most economical agricultural research program required to meet Tanzania's needs for maximum agricultural and rural development within the next 10-15 years.

16. Mission Clearances	Date	Mission Clearances	Date

17. Date of Original Issuance  
September 18, 1970

18. Date of this Issuance  
September 18, 1970

19. For the Cooperating Country The terms and conditions set forth herein are hereby agreed to:	20. For the Agency for International Development
_____ SIGNATURE	 SIGNATURE
_____ DATE	_____ TITLE
_____ TITLE	_____ TITLE

AID 1380-1 (8-63)	<b>DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT</b>	<input type="checkbox"/> Worksheet <input checked="" type="checkbox"/> Issuance	PAGE 2 OF 10 PAGES
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		Project/Activity No. and Title 621-11-110-107 Agriculture Research	
PIO/T	<b>PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES</b>		

**SCOPE OF WORK**

**21. Scope of Technical Services**

**A. Description**

Each specialist will be required to submit a draft report in his area of specialization and make technical recommendations to Dr. Howard Sprague, AID Contractor and Team Leader, following the scope-of-work and outline for the team's report as follows:

The scope-of-work will include but not necessarily be limited to the following:

1. A field study period of about three months in Tanzania (and Uganda and Kenya, as may be necessary), involving five agriculture researchers plus short-term consultants, to obtain information on research facilities and activities, and to consult with agriculture researchers and other personnel of the GOT on the nation's research needs; review and evaluate the current research program; and make recommendations for optimum improvement of the research system.
2. Formulate a detailed, time phased national research system and development program for Tanzania, for research on the broad field of agriculture, to serve as an integral part of national development.

(Continued)

**B. Technicians**

(1) (a) Number	(b) Specialized Field	(c) Grade and/or Salary	(d) Duration of Assignment (Man-Months)
2	Agriculture Production Economist	FSR-3 Level	NTE 3
1	Agriculture Marketing Economist	FSR-3 Level	NTE 3

Non-AID financed specialist from other donors will participate in the study. Supplemental short-term assistance may be provided by both AID and other donor specialists both inside and outside Tanzania. The following are the desired qualifications and responsibilities for each of the individuals who will participate in the study team to be supplied by USDA/PASA: (Continued)

(2) Duty Post and Duration of Technicians' Services

Duties Salaam with travel throughout Tanzania plus occasional travel in other East African countries as deemed necessary. NTE 90 days in East Africa.

(3) Access to Classified Information

None

(4) Dependents     Will     Will Not    Be Permitted to Accompany Technician

**C. Financing Costs of Technical Services**

(1) By AID - \$ 20,000

(2) By Cooperating Country - None



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		Project/Activity No. and Title 621-11-110-107 Agriculture Research	

25. Reports by Supplier of Services (Indicate type, content and format of reports required, including language to be used if other than English, frequency or timing of reports and any special requirements)

A working report will be prepared in Tanzania for review, discussion and approval by appropriate officials in the Ministry of Agriculture, Food and Cooperatives (MAFC) and USAID prior to departure from Tanzania. After returning to the U.S., the team will review the draft report with appropriate AID/W staff and incorporate any changes or corrections, if any, deemed necessary by AID/W.

26. Availability of Background Information (Additional information useful to Authorized Agent and Prospective Suppliers; if necessary, cross reference Block 21.B(3) above)

Background information will be made available in AID/W, USAID/Tanzania, and the Tanzania MAFC.

27. Relationships of Supplier to Cooperating Country and to AID.

A. Relationships and Responsibilities

The contract and PASA team members will come under the general direction of the Ministry of Agriculture and the USAID/Tanzania Food and Agriculture Officer, and under the policy guidance of the Director, USAID/Tanzania.

B. Cooperating Country Liaison Official

Director of Agriculture and/or Principal Secretary, MAFC.

C. AID Liaison Officials

Food and Agriculture Officer, USAID/Tanzania.

AID 1950-1 (8-63)  PIO/T	DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT  PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	<input type="checkbox"/> Worksheet	<input checked="" type="checkbox"/> Issuance	PAGE 5 OF 10 PAGES
		Cooperating Country Tanzania		PIO/T No. 621-107-2-10002
		Project/Activity No. and Title 621-11-110-107 Agriculture Research		

**LOGISTIC SUPPORT**

20. Provisions for Logistic Support  A. Specific Items (Insert "X" in applicable column at right. If entry needs qualification, insert asterisk and explain below in C. "Comments")	In Kind Supplied By		From Local Currency Supplied By	
	AID	Cooperating Country	AID	Cooperating Country
(1) Office Space		X		
(2) Office Equipment		X		
(3) Housing and Utilities N.A.				
(4) Furniture N.A.				
(5) Household Equipment (Stoves, Refrig., etc.) N.A.				
(6) Transportation in Cooperating Country		X 1/		
(7) Interpreter Services		X		
Other: (8) Secretarial Services	X 2/			
(9)				
(10)				
(11)				
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**B. Additional Facilities Available From Other Sources**

1/ USAID will arrange necessary transportation within Tanzania not otherwise supplied by the host-government. Team members will be required to finance air transportation via commercial airlines to Kenya and Uganda as appropriate which will be reimbursable from funds in this PIO/T.

2/ USAID will arrange secretarial services. The facilities and logistic support determined by the USAID to be essential to the success of this survey and which are not otherwise provided by the TANGOV will be provided to extent possible from available mission resources. Should support, however, require new procurement or costs beyond that of normal mission operations, project documentation will be amended to permit USAID/Tanzania to secure the required services.

**C. Comments**

Block 21 A (Continued)

In formulating the national research system, full consideration will be given to areas of priority and joint research programs with other national, regional, and international research institutions to avoid duplication of efforts. This will include recommendations re the rule that the newly developing Faculty of Agriculture at Morogoro should play in development of research.

3. Identify the respective priorities for research to support essential agricultural and rural development.
4. Develop structural and functional designs by relations and components for a viable research system and a program for its development, to serve evident subject matter and socio-economic needs, consistent with phasing of funds, research resources, and availability development of scientific manpower.
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  - (a) Identification and recommendation on types of agriculture for specific ecological zones -- rangeland, cropping, livestock enterprises, forestry, wildlife and recreation.
  - (b) Data on unit costs of production, and probable costs upon application of modern science and technology.
  - (c) Opportunities for improvement in production through efficient farm management practices.
  - (d) Data on efficiency in supplying production inputs, and the influence of timelines of operations, techniques of application, availability of credit, etc.
  - (e) Policy research on functions, structural components, and institutionalizing markets, price relations, and rural infrastructure, on services, inputs and production.
  - (f) Evaluations on communications and utilization of agricultural science and technology by cultivators and policy decision makers.

Block 21 A (Continued)

6. Formulate study guidelines on the economic aspects of agricultural marketing from production through to ultimate utilization, to provide sound economic data and principles as a basis for guiding government decision on pricing, guarantees of markets, storage facilities and practices, processing, distribution to consumption centers, export controls and practices, and related aspects.

Special attention should be given to the need for providing dependable economic data, and to its interpretation, to guide the parastatal institutions programs and operations which profoundly influence the agricultural economy. Also, provide available economic information derived from researches on marketing and utilization of agricultural commodities, that will be useful to the Government in making decisions.

Full consideration will be given to information in the AID financed MSU study and the UNDP Market Research Institute in order to avoid duplication of effort.

7. Prepare a plan and realistic time-table with suggested procedures and alternatives of staffing the recommended research system, and for educating and training Tanzanians to fill research staff positions and provide the leadership for the research system.
8. Propose guidelines for periodic evaluation and revision of agricultural research objectives, organizational patterns, and scientific manpower management that will insure adjustment to any changes in national objectives without impairment of the essential continuity of the research effort. These guidelines should include any needed adjustments in incentives to attract highly capable people to the research establishment, and rewards that are commensurate with accomplishments. There should be provision for continuity of important lines of research, as well as for reasonable stability in assignment of researchers.
9. Formulate an agricultural economic research program, with proposed staffing organization and administration, to provide basic economic information on agriculture on an objective basis.
10. Analyze problems in expanding grassroots level social and economic studies and in linking the results of socio-economic research to local, regional and national agriculture planning. Although emphasis will be on agriculture research, cognizance will be given as to how socio-economic research findings can be merged with technical agricultural research in order that agricultural programs can be better planned and more effectively implemented.

Block 21 A (Continued)

11. Prepare as an appendix to the team report a draft model project proposal for one or two of the national agricultural research priorities prior to departure from Tanzania. The following outline is to be followed in the organization of this paper:

- (a) Summary Description, including tabulation of planned inputs,
- (b) Setting or Environment,
- (c) Strategy,
- (d) Planned Targets, Results, and Outputs, and
- (e) Course of Action, Method of Approach.

This project proposal should be prepared in a format that the Tanzanian Government could use it, and/or develop similar proposals in other priority areas, for their own programming process or for submission to international donors for technical assistance.

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  - B. Introduction: Reasons for the Study
  - C. Agricultural Development in Tanzania; and Production Goals for the 1970s.
  - D. Problems and Areas Requiring Research Attention listed in order of economic priority.
  - E. Development of a short and long-range agricultural research system in Tanzania.
  - F. Administration and agricultural staffing of the agricultural research organization.
  - G. Cooperation between the Agricultural Research Division, and the Faculty of Agriculture to achieve adequate education and training of agricultural specialists and leaders.

Block 21 A (Continued)

- H. Extension of Research Results.
- I. Coordination of research with the National Scientific and Research Council University; and with agricultural development agencies of the Government.
- J. Coordination and mutual interaction of the national agricultural research program with regional and international agricultural research programs.
- K. Appendix -- Project Proposal for one or two of the national agricultural research priorities.

Block 21 B (Continued)

(a) Specialist on Economics of Agricultural Production:

Professional Training: Must have a B.S. degree but preferably a PhD degree in some aspect of Agricultural Economics; and have had 10 or more years of significant experience in the field of economics of agricultural production, with particular reference to research in this field. He should have had substantial service in agricultural economics in less developed countries, particularly in the tropics or sub-tropics.

Responsibilities: To serve as the Specialist in Production Economics, on a five-man team charged with making a comprehensive study of the agricultural research needs of Tanzania, and with preparation of a report to the Government of Tanzania, with recommendations for an appropriate plan to meet evident agricultural research needs. This Specialist will provide expert knowledge on agricultural production economics, and on the research in this field needed to support and stimulate agricultural production. He will participate in preparation of the final report to the Government.

(b) Specialist in Marketing of Agricultural Commodities:

Professional Training: Must have a B.S. degree but preferably a PhD degree in Agricultural Economics; and have had 10 years or more of significant experience in Marketing of Agricultural Commodities, with particular reference to research in this field.

He should have had substantial experience in Agriculture Marketing in less developed countries, particularly in the tropics or sub-tropics.

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Block 21 B (Continued)

Responsibilities: To serve as the Specialist in Agricultural Marketing, from producer to ultimate consumer, on a five-man team charged with making a comprehensive study of the agricultural research needs of Tanzania, with preparation of a report to the Government of Tanzania, with recommendations for an appropriate plan to meet evident agricultural research needs. This Specialist will provide expert knowledge on Marketing of Agricultural Commodities and of the research needed to support this phase of agricultural development. He will participate in preparation of the final report to the Government.

AID 1520-1 12-701  P10,7  PROJECT IMPLEMENTATION ORDER/VEHICULAR SERVICES	DEPARTMENT OF STATE INTERNATIONAL DEVELOPMENT	1. FUNDING COUNTRY Tanzania	2. Date of 10 Pages 11p.
		3. PD/RY No. 621-107-3-20013	4. Original or Amendment No.
		4. Project/Activity Period Title 621-107-3-20013 Agricultural Research	

DISPOSITION  Date  Date	5. Activity Line Symbol 72-1121004	6.A. Allotment Symbol and Charge 254-50-621-00-69-21	6.B. Funds Allotted for <input type="checkbox"/> A.I.D. by <input checked="" type="checkbox"/> Mission
	7. Disposition Code <input type="checkbox"/> A. Authorized Services <input checked="" type="checkbox"/> B. Substitution	8. Funding Period (Mo., Day, Yr.) 10 MOS. after technicians' arrival. 9. Completion Date of Services 24 months after services have begun.	

10. Position Title AID/Washington	11. Position Code	12. Location	13. Estimate	14. Total to Date
			\$250,000	\$250,000

AID/Washington is requested to negotiate for recruitment of AID-financed personnel for the positions identified in Block 19 and to execute a contract for the services to be provided in accordance with the AID contract procedures for employment of U.S. citizens under AID contract arrangements. (See Continuation Sheet - Block 14)

APPROVED: <i>[Signature]</i> Date: 12/10/71 COORDINATOR	APPROVED: <i>[Signature]</i> Date: 1/3/72 DIRECTOR, USAID/TANZANIA
APPROVED: <i>[Signature]</i> Date: 1/3/71 DIRECTOR	APPROVED: <i>[Signature]</i> Date: 1/3/71 DIRECTOR
APPROVED: <i>[Signature]</i> Date: 1/20/72 PRINCIPAL SECRETARY, TREASURY	APPROVED: <i>[Signature]</i> Date: 1/20/72 DIRECTOR, USAID/TANZANIA

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**SCOPE OF WORK**

**19. Scope of Technical Services**

**A. Objective for which the Technical Services are to be Used**

See Continuation Sheet Block 19A

**B. Description**

See Continuation Sheet Block 19B

**C. Technicians**

(1) (a) Number	(b) Specialized Field	(c) Grade and/or Salary	(d) Duration of Assignment (in Months)
1	Research Coordinator	NA	24
1	Maize Research Officer	NA	24
1	Edible Legume Research Officer	NA	24
1	Agronomic Research Officer	NA	24

**(2) Duty Post and Duration of Technicians' Services**

Research Coordinator---Dar es Salaam---24 months

Maize, edible legume, and agronomic research officers---Ukiri-guru---24 months

**(3) Language requirements**

None, but knowledge of Swahili desirable

**(4) Access to Classified Information**

None-- Not required

Contractor's nominees for the above positions require approval of the Director, USAID/Tanzania and of the Government of Tanzania before entering on duty.

See Continuation Sheet Block 19C for detailed descriptions of duties and necessary qualifications.

(5) Dependents  Will  Will Not Be Permitted to Accompany Technician

**D. Financing of Technical Services**

(1) By AID - \$ 248,000

(2) By Cooperating Country -- See Section VI of Pro-Ag 72-6

AID 1330-1 (0-70)	Cooperating Country <b>Tanzania</b>	PIO/T No. <b>621-107-3-20013</b>	Page 3 of 19 Pages
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20. Equipment and Supplies (Related to the services described in Block 19 and to be procured outside the Cooperating Country by the supplier of these services)

A. (1) Quantity (2) Description

(3) Estimated Cost

(4) Special Instructions

Up to \$2,000 provided herein may be used by the contractor to provide small items of professional equipment, materials or publications for the use of technical personnel assigned to the project in Tanzania. Prior approval for procurement of the above items must be obtained from the USAID Mission to Tanzania.

B. Financing of Equipment and Supplies

(1) By AID - \$ 2,000

(2) By Cooperating Country -

21. Special Provisions

- A. This PIO/T is subject to AID (contracting) (PASA implementation) regulations.
- B. Except as specifically authorized by AID, or when local hire is authorized under the terms of a contract with a U.S. Supplier, services authorized under this PIO/T must be obtained from U.S. sources.
- C. Except as specifically authorized by AID/W, the purchase of commodities authorized under this PIO/T will be limited to the U.S. under Geographic Code 000.
- D. Other (specify):

AID 1350-1 (9-70)	Cooperating Country <b>Tanzania</b>	PIO/T No. <b>621-107-3-20013</b>	Page 4 of 19 Pages
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22. Reports by Contractor or Participating Agency (Indicate type, content and format of reports required, including language to be used if other than English, frequency or timing of reports, and any special requirements)

See Continuation Sheet Block 22

23. Background information (Additional information useful to Authorized Agent and Prospective Contractors or Participating Agency; if necessary cross reference Block 19.C(4) above.)

1. The Agricultural Research Needs of Tanzania, April 1971. A report prepared for the Ministry of Agriculture and Cooperatives, United Republic of Tanzania, by H.B. Sprague, G.C. Anderson, A.D. Jones, D.C. Myrick, and B.J. Patton. Available in AID/Washington and USAID/Tanzania.
2. The Non-Capital Project Paper (PROP) for Project 621-11-110-107, Agricultural Research, submitted to AID/Washington, March 29, 1971.
3. Project Agreement 71-1, dated January 4, 1971.
4. PIO/T 621-107-3-10001 and PIO/T 621-107-3-10002.
5. Project Agreement 72-6, dated November 15, 1971.
6. General information relating to environmental and living conditions is available from AID/Washington and USAID/Tanzania.

24. Relationship of Contractor or Participating Agency to Cooperating Country and to AID

A. Relationships and Responsibilities

See Continuation Sheet, Block 24A

B. Cooperating Country Liaison Official

Director, Research, Training, and Farmers Education Division,  
Ministry of Agriculture and Cooperatives, Dar es Salaam, Tanzania

C. AID Liaison Officials

Food and Agriculture Officer, USAID/Tanzania, Dar es Salaam, Tanzania

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**LOGISTIC SUPPORT**

23. Provisions for Logistic Support	In Kind Supplied By		From Local Currency Supplied By	
	AID <u>1/</u>	Cooperating Country	AID	Cooperating Country
A. Specific Items (Insert "X" in applicable column at right. If entry needs qualification, insert asterisk and explain below in C. "Comments")				
(1) Office Space		X		
(2) Office Equipment		X		
(3) Housing <del>NECESSARY</del>		X		
(4) Furniture		X <u>2/</u>		
(5) Household Equipment (Stoves, <del>REFRIG</del> etc.)		X <u>2/</u>		
(6) Transportation in Cooperating Country		X		
(7) Interpreter Services		X		
Other (Specify)				
(8)				
(9)				
(10)				
(11)				
(12)				
(13)				
(14)				
(15)				

**B. Additional Facilities Available From Other Sources**

1/ AID will provide no in-kind logistic support, but will provide U.S. dollar allowances in lieu thereof as specified in USAID/Tanzania's "Standardized Provisions for Support of U.S. OPEX Personnel Assigned to Tanzania" (as revised June 1, 1971) as described in Block 25-C. These allowances will permit the employee to supplement the support provided by the Government of Tanzania.

2/ Basic hard furnishings, including electric stove but no refrigerator, are provided from Tanzanian Government stock. Furniture is usually used and modest; however, if required, the Government will usually authorize renovation. The USAID-provided arrival allowance permits the employee to supplement these furnishings.

**C. Comments**

Although the technicians recruited under this PIO/T will not be OPEX employees, most of the conditions described in "Standardized Provisions for Support of U.S. OPEX Personnel Assigned to Tanzania" (as revised June 1, 1971 and sent to AID/Washington by TOAID A-69) will apply to the Technicians.

The following exceptions are noted:

- References to employment by the Tanzanian Government and local basic salary paid by the Tanzanian Government do not apply.
- The monthly living allowance paid by AID will be \$100 because no salary deduction for local housing will be made, although housing will be provided as described in the Standardized Provisions.

All other terms of the Standardized Provisions apply.

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	Project Implementation Order/ Technical Services CONTINUATION SHEET DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT UNITED STATES OF AMERICA	Tanzania	621-107-3-20013
		3. TITLE OR DESCRIPTION OF ACTIVITY 621-11-110-107 Agricultural Research	

USE THIS FORM TO COMPLETE THE INFORMATION REQUIRED IN ANY BLOCK OF A PIO OR PAA FORM.  
INSERT TITLE OF FORM ABOVE. INDICATE BLOCK NUMBER BELOW.

Block 14

The contract is to be executed with a U.S. university qualified in agricultural research and, particularly, qualified in maize breeding and agronomic research, edible legume breeding and agronomic research, as well as in animal and pasture research, soil science, and agricultural engineering. Initially, technical assistance will be provided under this project in the fields of (1) Research planning and administration; (2) maize breeding and agronomic research; and (3) edible legume breeding and agronomic research. It is expected that additional technical assistance in other fields of agricultural research, particularly animal, **pasture**, soil science, and agricultural engineering, will subsequently be programmed by mutual agreement of the Government of Tanzania and of USAID. Although the contractor may eventually be called upon to assist the Government of Tanzania in a number of agricultural research fields, the initial effort will be in research planning and administration, maize breeding and agronomic research, and edible legume breeding and agronomic research. The contractor must have the ability to provide competent technical backstopping and support to field personnel. The contractor should provide the research officers authorized by this PIO/T from his regular university and/or experiment station staff in order to insure adequate technical backstopping, professional competence of the officers provided, continuity of the research effort, and continuity in the training of Tanzanian research personnel.

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FORM SYMBOL

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2.b. Effective Date

2.c.  Original  Amendment  
OR No.

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3. Project/Activity No. and Title

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Indicate block  
numbers.

Use this form to complete the information required in any block of a PIO or PAA form.

Block 19A

The objective of the technical services provided in this PIO/T is to strengthen the agricultural research program of the Tanzanian Ministry of Agriculture and Cooperatives.

In research planning and administration, the specific objectives include improvements in (1) Budget preparation; (2) project planning and evaluation; (3) manpower development; and (4) reporting and utilization of research findings and results.

The specific objectives for maize breeding and agronomic research include development of high yielding hybrids and varieties suitable for high, medium, low, and coastal altitudes and improved maize agronomic practices for these major ecological areas of Tanzania.

Edible legume breeding and agronomic research include the specific objectives of making a collection of genetic material with potential value in Tanzania, identifying the crosses which will yield the most promising progenies, and developing agronomic practices to increase yields.

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Indicate block  
numbers.

Use this form to complete the information required in any block of a PID or PAA form.

Block 19B

The contractor is to provide technical services to assist the Ministry of Agriculture and Cooperatives strengthen its agricultural research program. This technical assistance will take two principal forms. First, four research officers will be provided from the contractor's regular staff to fill designated and agreed operational positions in the Division of Research, Training, and Farmers Education. (See Block 19C for detailed description of duties and qualifications). Second, the Contractor will be required to provide technical assistance or backstopping to his field personnel and to the research work of the Division. This assistance or backstopping may include, as required by the Director, Division of Research, Training, and Farmers Education Division and contractor field personnel, the following:

1. Technical review of research plans, programs, and proposals.
2. Technical review of manpower development plans.
3. Technical review of organization and staffing plans.
4. Provision of additional technical information relative to work of field personnel, including library assistance.
5. Assistance in obtaining seed stocks for plant breeding and research.
6. Assistance in solving technical problems, including experimental design, specifications for research equipment, and similar matters.
7. Assistance in preparing training programs for Tanzanian research personnel.
8. Assistance in other technical research matters as required by the Division Director and contract field personnel.

This project provides four research officers in agricultural research to be assigned to positions in the Division of Research, Training, and Farmers Education of the Tanzanian Ministry of Agriculture and Cooperatives. These officers will hold regular operational positions in the Ministry. The Research Coordinator will be supervised by the Division Director, and each of the other officers will be supervised by the Director of the Research and Training Institute to which he is assigned. Working conditions, hours, perquisites, office facilities, and secretarial and clerical assistance will be as prescribed by the Division Director for Tanzanian officers of comparable grades.

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PIO/T	Project Implementation Order/ Technical Services	3. Project/Activity No. and Title 621-11-110-107 Agricultural Research		

Indicate block numbers.

Use this form to complete the information required in any block of a PIO or PAA form.

Block 19C

This project provides for four research officers to be assigned to the Research, Training, and Farmers Education Division of the Ministry of Agriculture and Cooperatives. Each officer will be appointed by the Ministry of Agriculture and Cooperatives to a Tanzanian Government position and grade suitable to his qualifications and duties as agreed by the Director, Research, Training, and Farmers Education Division and the USAID Food and Agriculture Officer.

The positions to which the technicians will be appointed and their duties and qualifications are:

1. Research Coordinator.

In collaboration with the Chief Research Officers and under the general supervision and direction of the Division Director, who is available for advice and consultation and who will supply policy guidance and direction and make policy determinations, the Research Coordinator will, as directed by the Division Director, assist in planning and administering the research work of the Division.

Duties.

As assigned by the Division Director duties will include:

1. Review, evaluation, and preparation of institutional and national research plans and programs.
2. Coordination of research among Tanzanian institutions and other national and international research organizations.
3. Preparation of research projects for foreign donor assistance.
4. Review and preparation of financial estimates and budgets for individual research projects and institutions and for the research program of the Division as a whole.
5. Review and preparation of station reports.
6. Review, preparation, and publication of reports of research carried out by the Division.
7. Review and preparation of research organization and staffing plans.
8. Preparation of recruitment and training programs for research and training personnel.
9. Related duties as assigned.

All work of the Research Coordinator will be reviewed by the Division

CONTINUATION SHEET	DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT	<input type="checkbox"/> Worksheet <input checked="" type="checkbox"/> Issuance	PAGE 10 OF 19 PAGES
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		2.a. Effective Date	2.b. Amendment <input checked="" type="checkbox"/> Original OR Not
		3. Project/Activity No. and Title 621-11-110-107 Agricultural Research	2.c. Code No. 621-107-3-2001.7
Indicate block numbers.	Use this form to complete the information required in any block of a PIO or PAA form.		
Block 19C (contd.)	<p>Director for compliance with policy.</p> <p>The Research Coordinator will have particular responsibility for assisting the Division Director with the programming of additional technical assistance from USAID and other donors.</p> <p><u>Qualifications.</u></p> <p><u>Education.</u></p> <p>A Master's Degree in Agriculture is required. A Master's Degree in Public Administration or in Business Administration may be accepted if the technician has a Bachelor's Degree in Agriculture and has demonstrated competence in performing and directing or administering agricultural research.</p> <p><u>Experience.</u></p> <p>A minimum of fifteen years progressively responsible experience in conducting and in directing or administering agricultural research is required. This experience may have been in a private research organization, a U.S. State or Federal Government research institution, or a University research station. Foreign experience is acceptable as qualifying <del>exper</del> experience, and some foreign experience is desirable but not required. This officer should have attained at least the rank of Associate Professor, or equivalent.</p> <p>Of the required fifteen years experience at least five years must have been in a research position(s) the duties of which were primarily or substantially administrative, supervisory, and managerial in nature. Examples of qualifying administrative experience include, but are not limited to, dean, associate dean, or assistant dean of college of agriculture; director, associate director, or assistant director of an agricultural experiment station; head (chairman), associate head, or assistant head of a department in a college of agriculture or in an agricultural experiment station; and research director, associate <b>research director</b>, or assistant research director for a private firm engaged in agricultural research. Competence and ability in personnel relations is required.</p> <p><u>Other.</u></p> <p>Ability and willingness to engage in frequent field travel, often under bush conditions, is required.</p> <p><u>Duty Station.</u> Dar es Salaam</p>		

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PIO/T	Project Implementation Order Technical Services	3. Project/Activity No. and Title <u>621-11-110-107 Agricultural Research</u>		

Indicate block  
numbers.

Use this form to complete the information required in any block of a PIO or PAA form.

Block 19C  
(contd.)

2. Maize Research Officer

Duties.

Under the general supervision of the Director, Ukiriguru Research and Training Institute, this officer will serve as Deputy to the Tanzanian officer in charge of the Tanzanian maize breeding and agronomic research programs and will be in charge during any vacancies in the latter position. His duties will include development of hybrids and varieties suitable for the major ecological areas of Tanzania, particularly for high, medium, low, and coastal altitudes. Agronomic research will be directed toward developing improved agronomic practices suitable for these four altitude zones. The breeding and agronomic research conducted will make full use of maize breeding and agronomic research done by the East African Community research organizations and of other foreign research. This officer will assist in planning varietal adaptation testing of EAAFPRO and other exotic varieties and hybrids and in coordinating the maize breeding and agronomic research work done by the various research institutes in Tanzania. He will perform related duties as assigned.

Qualifications.

Education.

A Master's Degree in Agriculture is required with the major field plant breeding or agronomic research. A Ph.D. degree is desirable but not required.

Experience.

A minimum of ten years progressively responsible experience in maize breeding and maize agronomic research is required. This experience may have been in a private research organization, a U.S. State or Federal Government research institution, or a University research station. Foreign experience is acceptable as qualifying experience, and some foreign experience is desirable but not required. This officer should have attained at least the rank of Associate Professor, or equivalent. Some managerial or administrative experience is highly desirable but not required. Some agricultural extension experience is desirable but not required. Competence and ability in personnel relations are required.

CONTRIBUTION  
SHEET

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Abstract  Source page 2 of 10 pages

1. Contributing Country  
Tanzania

2. Crs. No.  
621-107-3-20013

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3. Effective Date

3. a.  Original  Duplicate

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Use this form to complete the information required in any Block of a PID or PAA form.

Block 19C  
(contd.)

Other.

Willingness and ability to live at a relatively remote location where living conditions are substantially different from those in the United States are required.

Willingness and ability to engage in frequent field travel, often under harsh conditions, are required.

Duty Station.

Ukiviguru Research and Training Institute, Mwanza, Tanzania

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2. Project/Activity No. and Title

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Indicate block  
numbers.

Use this form to complete the information required in any block of a PIO or PAA form.

Block 19C  
(contd.)3. Edible Legume Research Officer.Duties.

Under the general supervision of the Director, Ukiriguru Research and Training Institute, this officer will be in charge of the Tanzanian edible legume breeding and agronomic research programs until such time as a Tanzanian officer is appointed. He will then serve as Deputy to the Tanzanian officer. The edible legumes for which breeding and/or agronomic research work is to be conducted may include soybeans, cowpeas, french beans (*Phaseolus vulgaris*), and grams (*Phaseolus aureus* and *Phaseolus mungo*). It is expected that initially priority will be given to edible legumes other than soybeans. The breeding and agronomic research work will be directed toward developing improved varieties and agronomic practices for the major ecological areas of Tanzania and will make the fullest use of breeding and agronomic research in edible legumes done by the East African Community research organizations and of other foreign research. This officer will be responsible for planning varietal adaptation testing of exotic edible legume varieties in Tanzania. He will perform related duties as assigned.

Qualifications.Education.

A Master's Degree in Agriculture is required with the major field plant breeding or agronomic research. A Ph.D. Degree is desirable but not required.

Experience.

A minimum of ten years progressively responsible experience in edible legume breeding and edible legume agronomic research is required. This experience may have been in a private research organization, a U.S. State or Federal Government research institution, or a University research station. Foreign experience is acceptable as qualifying experience, and some foreign experience is desirable but not required. This officer should have attained at least the rank of Associate Professor, or equivalent. Some managerial or administrative experience is highly desirable but not required.

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1. Cooperating Country  
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2a. Code No.  
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FORM CARRIED

TITLE OF POST

2.b. Effective Date

2.c. Amendment  
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numbers.

Use this form to complete the information required in any block of a PIO or PAA form.

Block 19C  
(contd.)

Competence and ability in personnel relations are required.

Other.

Willingness and ability to live at a relatively remote location where living conditions are substantially different from the United States are required.

Willingness and ability to engage in frequent field travel, often under bush conditions, are required.

Duty Station

Ukiviguru Research and Training Institute, Mwanza, Tanzania.

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FORM 6028-1

PIO/T

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3. Effective Date

3.5  
 Original OR  Amendment

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4. Project/Activity No. and Title

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Indicate Block  
numbers.

Use this form to complete the information required in any block of a PIO or PAA form.

Block 19C  
(contd.)4. Agronomic Research Officer.Duties.

Under the general supervision of the Director, Ukiriguru Research and Training Institute, this officer will plan, direct, and conduct research on agronomic practices. The research will include date of planting, seed-bed preparation, fertilizer spacing, weed control, harvesting, and other practices needed to increase production. Priority will be given to maize and edible legumes, but research may also be done on other crops as specified by the Division Director. This officer will perform related duties as assigned.

Qualifications.Education.

A Master's Degree in Agriculture is required with the major field plant breeding or agronomic research. A Ph.D. degree is desirable but not required.

Experience.

A minimum of five years progressively responsible experience in agronomic research is required. The experience should have demonstrated competence in maize agronomic research and in edible legume agronomic research, but this officer may be required to do agronomic research on other crops. This experience may have been in a private research organization, a U.S. State or Federal Government research institution, or a University research station. Foreign experience is acceptable as qualifying experience, and some foreign experience is desirable but not required. The officer should have obtained at least the rank of assistant professor, or equivalent. Some managerial or administrative experience is desirable but not required. Some agricultural extension experience is desirable but not required.

Other.

Willingness and ability to live at a relatively remote location where living conditions are substantially different

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CONTRIBUTOR'S  
PROJECT

1. Cooperating Country  
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2a. Code No.  
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2b. Effective Date

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3. Project/Activity No. and Title

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Indicate Block  
Number

Use this form to complete the information required in any Block of a PIO or PAA form.

Block 19C  
(contd.)

from those in the United States are required.

Willingness and ability to engage in frequent field travel,  
often under bush conditions, are required.

Duty Station.

Ukiriguru Research and Training Institute, Mwanza,  
Tanzania.

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	Project Implementation Order/ Technical Services CONTINUATION SHEET DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT UNITED STATES OF AMERICA	Tanzania	621-107-3-20013
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USE THIS FORM TO COMPLETE THE INFORMATION REQUIRED IN ANY BLOCK OF A PIO OR PAA FORM.  
INSERT TITLE OF FORM ABOVE. INDICATE BLOCK NUMBER BELOW.

Block 22

Reports.

The contractor will submit the following reports:

1. Initial Work Plan Report to be distributed to the Government of Tanzania (12 copies), AID/Washington (6 copies), and USAID/Tanzania (3 copies). The Initial Work Plan Report will be prepared within six months of the arrival of the technicians in Tanzania and will include at least the following:
  - a. Initial Research Work Plan Report. Upon arrival in Tanzania, each USAID-supplied officer in maize research, edible legume research, and agronomic research will, in cooperation with his counterpart officers and with other officers working in his field, review recent progress and draw up proposals for his work program in the short and long term. These progress reports and proposals will be presented for discussion with institutional Directors and will be submitted for approval in line with ministerial procedure. Following this the USAID-supplied officers, in cooperation with their Tanzanian counterpart officers, will prepare a detailed work plan for the first two years of the project and a less detailed work plan for the remaining years of the project. The work plan for the first two years will include a detailed scope of work and objectives or targets for the fields of maize breeding and agronomic research, and edible legume breeding and agronomic research, and will consider the expansion in due course of this research project to other research fields. The work plan will then be submitted for approval by the Ministry of Agriculture and Cooperatives and by USAID.
  - b. Initial Research Manpower Development Work Plan Report.  
Within six months of the arrival of the USAID-supplied technicians in Tanzania, the Research Coordinator, under the general direction of the Division Director and in cooperation with other officers of the Ministry of Agriculture and Cooperatives designated by him, will prepare a detailed research manpower development program, including both on-the-job and participant training elements, to meet Tanzanian agricultural research staffing needs. This plan will take into account efforts

DEPARTMENT OF STATE  
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INTERNATIONAL DEVELOPMENT

Worksheet  Issuance

PAGE 18 OF 19 PAGES

CONTINUATION  
ENBT

1. Cooperating Country  
Tanzania

2a. Code No.  
621-107-3-20013

FORM OVERSEAS

TITLE OF FORM

2b. Effective Date

2c.  Original  Amendment  
621 No.

PIO/T

Project Implementation Order/  
Technical Services

3. Project/Activity No. and Title

621-11-110-107 Agricultural Research

Indicate Most  
numbers.

Use this form to complete the information required in any block of a PIO or PAA form.

Block 22  
(contd.)

of other donors in this field.

2. Annual Progress Report.

Approximately 12 months after the arrival of the USAID-supplied technicians in Tanzania and annually thereafter the Contractor will prepare an Annual Progress Report to include a summary narrative description of activities, the main achievements, major problems encountered, recommendations for improvement, and recommendations for activities in the next years. This report will be distributed to the Government of Tanzania (12 copies), AID/Washington (6 copies), and USAID/Tanzania (3 copies).

3. Final Report.

This report will include a review of project accomplishments, problems encountered, and recommendations for future activities - all in relation to specifically stated objectives or targets. A draft of the Final Report will be submitted to USAID/Tanzania within 60 days after completion of technician services. The Final Report will be issued within 60 days of USAID's approval of the draft.

CONTRIBUTION  
STATE

FORM 1000-7

PIO/T

DEPARTMENT OF STATE  
AGENCY FOR  
INTERNATIONAL DEVELOPMENT Worksheet  Issuance

PAGE 19 OF 19 PAGES

1. Cooperating Country  
Tanzania2. Code No.  
621-107-3-20013

3. Effective Date

2. Original OR Amendment?

TITLE OF FORM

Project Implementation Order/  
Technician Services

3. Project/Activity No. and Title

621-11-110-107 Agricultural Research

Indicate Block  
numbers.

Block 24A

Use this form to complete the information required in any block of a FID or PAA form.

Technicians recruited under this PIO/T will not be subject to transfer or reassignment outside this project. The Research Coordinator will be officed in Pamba House, Ministry of Agriculture and Cooperatives, Dar es Salaam, and will receive supervision from the Director of the Research, Training, and Farmers Education Division. The Maize Research Officer, Edible Legume Research Officer, and Agronomic Research Officer will be officed at Ukiriguru Research and Training Institute and will receive supervision from the Director of that Institute.

The USAID Food and Agriculture Officer, or his designee, has the responsibility of monitoring this project on behalf of USAID and may, therefore, from time to time review and make recommendations to the Director, Research, Training, and Farmers Education Division regarding the duties, assignments, responsibilities, accomplishments, and performance of each USAID-supplied technician. To facilitate these reviews and recommendations each USAID-supplied technician will make a quarterly report of activities, through the Division Director, to the USAID Food and Agriculture Officer.

AID 1540-1 (7-71)  FIG/T	DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT  PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	1. Cooperating Country: The United Republic of Tanzania 2. PIO/T No.: 621-0107-3-80009 4. Project/Activity No. and Title: 621-0107 Agricultural Research	Page 1 of 9 Pages 3. <input checked="" type="checkbox"/> Original or Amendment No.
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DISTRIBUTION	5. Appropriation Symbol: 72-1181021.3 7. Obligation Status: <input type="checkbox"/> Administrative Reservation <input checked="" type="checkbox"/> Implementing Document 9.A. Services to Start (Mo., Day, Yr.): Between _____ and _____ Ongoing 10.A. Type of Action: <input checked="" type="checkbox"/> A.I.D. Contract <input type="checkbox"/> Cooperating Country Contract <input type="checkbox"/> Participating Agency Service Agreement <input type="checkbox"/> Other 10.B. Authorized Agency: AID/Washington	6.A. Allotment Symbol and Charge: 843-50-621-00-69-81 8. Funding Period (Mo., Day, Yr.): From 11/29/78 to 11/17/79 9.B. Completion date of Services (Mo., Day, Yr.):	6.B. Funds Allotted for: <input type="checkbox"/> A.I.D./W <input checked="" type="checkbox"/> Mission
--------------	--	--	--

Estimated Financing		(1)	(2)	(3)	(4)
\$1.00 = T.Shs. 7.95		Previous Total	Increase	Decrease	Total to Date
11.	A. Dollars		837,000		837,000
	B. U.S.-Owned Local Currency	(See page 2 for Component Breakdown)			
12.	A. Counterpart				
	B. Other				

13. Maxims References  ProAg 78-4  PIO/T 621-0107-3-70002	14. Instructions to Authorized Agent  This PIO/T provides FY 1978 funding for personnel services, participant training, commodities and other costs for the Agricultural Research Project under AID Contract No. 621-001-T. The breakdown of this contract funding is on page 2 of this PIO/T. All other provisions of this PIO/T are the same as in PIO/T 621-0107-3-70002 except as added or revised herein.
---	--

15. Clearances - Show Office Symbol, Signature and Date for all Necessary Clearances.	
A. The specifications in the scope of work are technically adequate  Project Manager: Larry Abel <i>L. Abel</i> 1/11/78  C. The scope of work lies within the purview of the initiating and approved Agency Programs  PRM: W. Faulkner <i>W. Faulkner</i> 1/11/78  E.  AGR: Jack Cornelius <i>J. Cornelius</i> 1-13-78	B. Funds for the services requested are available  A/GON: R. Podol <i>R. Podol</i> 1/16/78  D.  EXO: T. Bertotti <i>T. Bertotti</i> 1/16/78  F.

16. For the cooperating country: The terms and conditions set forth herein are hereby accepted to  Signature and date: <i>[Signature]</i> Title: Principal Secretary, Ministry of Agriculture	17. For the Agency for International Development: 11/29/78 Signature: <i>[Signature]</i> Richard L. Podol Title: Acting Director, USAID/Tanzania 16 Jan 78
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AID 1500-1 (7-68)	DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT	<input type="checkbox"/> Worksheet <input checked="" type="checkbox"/> Invoice	PAGE 2 OF 9 PAGES
CONTINUATION 58487		1. Concerning Country UNITED Republic of Tanzania	2. Code No. 621-0107-3-80009
FORM SYMBOL	TITLE OF FORM	3. Effective Date	<input type="checkbox"/> Original <input checked="" type="checkbox"/> Amendment
PIO/T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	3. Project/Activity No. and Title 621-0107 Agricultural Research	
Indicate block numbers. Use this form to complete the information required in any block of a PIO or PA/PI form.			

Block 11.A

This PIO/T sub-obligates a total of \$837,000 from ProAg No. 78-4 for contract services under AID Contract No. 621-001-T. The funding for these services breaks down as follows:

1. Personnel Services \$360,000
  - a. Long-term Contract personnel. These \$323,000 funds are the FY 1978 financing for the eight-person research team:
    1. Chief of Party
    2. Maize Breeder
    3. Maize Agronomist
    4. Legume Breeder
    5. Legume Agronomist
    6. Plant Breeder (Sorghum and Millet)<sup>1/</sup>
    7. Agronomist (Sorghum and Millet)<sup>1/</sup>
    8. Production Economist <sup>1/</sup>
  - b. Approximately 4-person months of short-term consultants. \$ 28,000
  - c. Local hire secretarial/clerical staff. \$ 9,000
2. Participant Training \$207,000

These funds are required to finance the following:

  - a. Approximately 120 person-months of new long-term training. \$136,000
  - b. Approximately 72 person-months of continuing long-term training. \$ 76,600
  - c. Approximately 85 person-months of short-term training. \$ 84,400

<sup>1/</sup> These three positions are new and the scopes of work, etc., for the persons recruited for these positions are found in block No. 19.C.

AID 1300-1 (7-69)	DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT	<input type="checkbox"/> Worksheet <input checked="" type="checkbox"/> Issuance	PAGE 3 OF 9 PAGES
CONTINUATION SHEET		1. Cooperating Country <u>United Republic of Tanzania</u>	2a. Code No. <u>621-0107-3-80009</u>
FORM SYMBOL	TITLE OF FORM	2b. Effective Date	2c. <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment OR Not
PIO/T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	3. Project/Activity No. and Title <u>621-0107 Agricultural Research</u>	
Indicate block numbers.	Use this form to complete the information required for any block of a PIO or PA/PR form.		

Block 11. A cont'd. 3. Commodities \$33,000

Farm equipment, spare parts, office equipment and equipment items for the research project. (Lists of equipment proposed for purchase with these funds will be submitted to the USAID for approval prior to the placement of orders.)

4. Other Costs \$147,000

- |  |          |
|--|----------|
| a. Vehicle operations/maintenance  | \$22,000 |
| b. Contract Overhead   | \$65,000 |
| c. In-country travel, office and training supplies and miscellaneous other small costs | \$60,000 |

Block 12. B

The Agricultural Research Project is directed toward developing an effective agricultural research system in Tanzania with emphasis on food crops grown by small farmers. A Project Paper (PP) revision was approved by AID/Washington on December 15, 1977. The PP revision provides for an expansion of the project activities to include sorghum/millet research along with the maize and food legume research already underway. The PP revision increases the number of contract positions from five to eight and increases the life-of-project funding for participant training, commodities and other costs. The three new long-term project positions are for a Sorghum/Millet Breeder, a Sorghum/Millet Agronomist and a Production Economist. The scopes of work for the three new long-term technicians are in block 19.C. below.

Block 19.C.1

Scopes of Work, qualifications, etc., for Three New Long-term Contract Positions

I. Plant Breeder (Sorghum and Millet)

a. Scope of Work

1. Assist in developing a national sorghum and millet research program.
2. Actively participate in conducting applied sorghum and millet research toward meeting the following goals:

AID 1300-1 (7-69)	DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT	<input type="checkbox"/> Worksheet <input checked="" type="checkbox"/> Issuance	PAGE 4 OF 9 PAGES
CONTINUATION SHEET		1. Cooperating Country United Republic of Tanzania	2a. Code No. 621-0107-3-8009
FORM SYMBOL	TITLE OF FORM	2b. Effective Date	2c. <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment OR No.
PIO/T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	2. Project/Activity No. and Title 621-0107 Agricultural Research	

Indicate block numbers.

Use this form to complete the information required in any block of a PIO or PA/PR form.

Block 19.C.1

- a. Sorghum - development of high-yielding sorghum types of short to medium term, of short to medium height, and resistance to shootfly, stemborer, striga and the usual spectrum of leaf disease. Thoroughly study and determine the advantages and disadvantages of hybrids for Tanzania and the development of desirable and acceptable grain types--preferably white carneous grain with high lysine content.
- b. Millet - The development of high yielding dwarf types, short to medium duration and with resistance to ergot, downy mildew and smut. Give attention to assure varieties meet local preferences and standards.
3. Develop a cadre of Tanzanians that will meet Tanzanian requirements for sorghum and millet research by giving on-the-job training to research personnel and assist in selecting candidates for United States and third country training.
  4. Assist in producing breeder seed of the most promising varieties and supplying the seed to the Seed Multiplication Project for increased multiplication.
  5. Be responsible to the Senior Research Officer of the Ministry of Agriculture, Crop Development Division and to the Project Coordinator (Team Leader).
- b. Qualifications
- This position will require a person with training and experience in sorghum and millet research techniques.
1. Training  
The minimum level of technical training should be a Ph.D. degree in plant breeding.
  2. Experience  
Sorghum and millet research gained in developing countries and living in isolated areas where schooling and immediate medical facilities are not available is highly desirable for this technician.

AID 1500-1 (7-69)	DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT	<input type="checkbox"/> Withdrawn <input checked="" type="checkbox"/> Issued	PAGE 5 OF 9 PAGES
CONTINUATION SHEET		1. Cooperating Country <u>United Republic of Tanzania</u>	2. Code No. <u>621-0107-3-80009</u>
FORM SYMBOL	TITLE OF FORM	2.b. Effective Date	2.c. <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment
PIO/T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	3. Project/Activity No. and Title <u>621-0107</u> <u>Agricultural Research</u>	

Indicate block numbers.

Use this form to complete the information required in any block of a PIO or PA/PR form.

Block 1).C.1

3. Travel

For conducting research trials at sub-stations and to give assistance in the development of the National Research Program in sorghum and millet, extensive field travel is expected.

c. Grade and/or Salary

FSR 4 or 5 or equivalent.

d. Duration of Assignment (24 person months)

II. Agronomist (Sorghum and Millet)

a. Scope of Work

1. Assist in developing a national sorghum and millet coordinating research program.
2. Actively participate and give guidance and assistance in conducting agronomic research trials at research stations, research sub-stations and village trials on farmers' fields. Response will be determined to seed bed preparation, date of planting, fertilization, mechanical and chemical weed control, land fallow, inter-cropping systems and harvesting techniques.
3. Develop and disseminate the most appropriate production packages for sorghum and millet based on the results of research trials.
4. Be responsible to the Senior Research Officer of the Ministry of Agriculture, Crop Development Division and to the Project Coordinator (Team Leader).

b. Qualifications

This position will require a person with technical training and experience in sorghum and millet agronomic research.

1. Training

The minimum level of technical training should be Ph.D.

DEPARTMENT OF STATE  
AGENCY FOR  
INTERNATIONAL DEVELOPMENT Workshop Issuance

PAGE 6 OF 9 PAGES

CONTINUATION  
SHEET1. Cooperating Country United  
Republic of Tanzania2. Code No.  
621-0107-3-80009

FORM SYMBOL

TITLE OF FORM

2. Effective Date

2. Original OR No. Amendment

PIO/T

PROJECT IMPLEMENTATION  
ORDER/TECHNICAL  
SERVICES

3. Project/Activity No. and Title

621-0107

Agricultural Research

Indicate block  
numbers.

Use this form to complete the information required in any block of a PIO or PA/PR form.

Block 1).C.1

degree in agronomy.

2. Experience

Sorghum and millet agronomy research in developing countries and living in isolated areas where schooling and immediate medical facilities are not available is highly desirable for the sorghum and millet agronomist.

3. Travel

For conducting agronomic research on research stations and on farmers' fields throughout the sorghum and millet production areas, extensive travel is expected for the agronomist.

c. Grade and/or Salary

FSR 4 or 5 or equivalent

d. Duration of Assignment (24 person months)III. Production Economista. Scope of Work

1. Evaluate improved cultural practices developed by research in the commodities under study. This includes maize and grain legumes (cowpeas, beans, soybeans and other minor legumes); sorghum and millet. Crop varieties and the cultural practices will be economically examined in terms of advantage to the farmer and the nation.
2. Cooperate with planners and the research team in designing and testing packages of technology (inputs) which will assist in realizing national crop production goals (seed, fertilizer, pesticides, herbicides, tools, energy, credit, etc.).
3. Study national and regional infra-structure (roads, transport vehicles, storage, marketing systems, etc.) which would be necessary to appropriately handle national production goals once they are met.

AID 1500-1 (7-69)	DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT	<input type="checkbox"/> Worksheet <input checked="" type="checkbox"/> Issuance	PAGE 7 OF 9 PAGES
CONTINUATION SHEET		1. Cooperating Country United Republic of Tanzania	2. Code No. 621-0107-3-80009
FORM SYMBOL	TITLE OF FORM PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	2. Effective Date	2.c. Amendment <input checked="" type="checkbox"/> Original OR Not
PIO/T		3. Project/Activity No. and Title 621-0107 Agricultural Research	

Indicate block numbers.

Use this form to complete the information required in any block of a PIO or PA/PR form.

Block 1).C.1

4. Study pricing policy and price variation to evaluate response of farmers and farm production. Suggest necessary adjustments to stimulate production.
5. Establish the existing baseline for production, cultural practices and inputs. Program periodical evaluations to determine the impact and spread of the new technology and recommendations.
6. Be responsible to the Senior Research Officer of the Ministry of Agriculture, Crop Development Division and to the Project Coordinator (Team Leader).

b. Qualifications

This position will require a person with training in agriculture economics associated with crop research. He must be a field worker and have the ability to work as a crop research team member.

1. Training

The minimum level of technical training should be a Ph.D. degree in agricultural economics.

2. Experience

It is recommended that the technician filling this position has had extensive field experience working closely with farmers, extension and research personnel as well as district, regional and national host government officials.

3. Travel

For collecting economic data throughout the crop production areas, extensive travel is expected for the production economist.

c. Grade and/or Salary

FSR 4 or 5 or equivalent.

d. Duration of Assignment (24 person months)

AID 1300-1 (7-69)	DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT	<input type="checkbox"/> Worksheet <input checked="" type="checkbox"/> Issuance	PAGE <u>8</u> OF <u>9</u> PAGES
CONTINUATION SHEET		1. Cooperating Country <u>United Republic of Tanzania</u>	2.a. Code No. <u>621-0107-3-80009</u>
FORM SYMBOL	TITLE OF FORM PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	2.b. Effective Date	2.c. <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment OR No.
PIO/T		3. Project/Activity No. and Title <u>621-0107</u> <u>Agricultural Research</u>	

Indicate block numbers.

Use this form to complete the information required in any block of a PIO or PA/PR form.

Block 1.D.1

Add the following:

Number of Minorities and Women

(USAID/Tanzania is unable to amend this section as requested in State 275376 pending; clarification of questions raised in Nairobi 15391 dated November 29, 1977.)

Block 21.D

Special Provisions. Add the following:

The Africa Bureau, AID, strongly encourages the use in this activity of minorities and women both as contracting or sub-contracting firms and institutions and as individuals. Thus, the Contractor or Grantee is expected to carry out a positive program to identify and use such organizations and persons to the fullest possible extent.

Block 22

Reports by Contractor. Add the following:

As an appendix to its final report, the Contractor or Grantee shall submit a brief summary outlining the extent to which minorities and women were used in carrying out the activity and the extent to which they were used as members of teams which were sent to the field.

Block 25.A.5

Basic hard furnishings are provided by the Ministry of Agriculture. Furniture is usually used and modest; however, if required the Ministry of Agriculture usually authorizes renovations. As a necessary supplementation to the basic hard furnishings provided by the Government of Tanzania, AID will purchase on a direct basis an initial consignment of the items of supplemental furniture and Household appliances listed below for the three new contract technicians. These items will be purchased for use of contract personnel and the contractor will be responsible for maintenance and transport or distribution within Tanzania of this supplemental furniture and household appliances. An initial amount of \$500 is to be included in the contract for these maintenance and transport costs. Funds for replacement or additional furniture and household equipment will be made available for the contract in future PIO/Ts as required.

AID FORM 17-60	DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT	<input type="checkbox"/> Worksheet <input checked="" type="checkbox"/> Issuance	PAGE 9 OF 9 PAGES
CONTINUATION SHEET		1. Disposing Country United Republic of Tanzania	2. Code No. 621-0107-3-8000
FOCUS SYMBOL	FIELD OFFICE	3. Project No. and Title 621-0107 Agricultural Research	4. <input checked="" type="checkbox"/> Original OR Not
PIO/T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES		

Indicate block numbers.

Use this form to complete the information for each block of a PIO or PA/PR form.

Block 25.A.5

Furniture and Household Equipment (3 Technicians)

<u>Item</u>	<u>Number</u>
Lamp	18
Refrigerator	3
Hot water heater	3
Washing machine	3
Freezer	3
Water filter	3
Transformer	9
Bed and Mattress	18
Clothes dryer	3

November 13, 1967 3p  
WOH/RIG

## BACKGROUND NOTES

Development and Use of Improved Varieties of the Major Cereals  
PASA RA-4-00 USDA/Agricultural Research Service.

Under an interagency agreement signed in April, 1963, the Agricultural Research Service of the U. S. Department of Agriculture assumed responsibility for the conduct of the crops, soils and production research required for substantially increased output of the three major cereals in Africa, sorghum, millet and maize. A.I.D., in turn, agreed to provide the necessary financial support for as long a period as required, depending upon the results.

Formal agreements signed with two African organizations and the host countries (Nigeria, Tanzania, Uganda and Kenya) made available substantial field and laboratory facilities, as well as local staff for the project. The Rockefeller Foundation and FAO also cooperate in this project.

Two regional centers, one in East Africa (Uganda and Kenya) and one in West Africa (Nigeria) serve as regional headquarters for the staff and are the location of the most extensive research.

The Nigeria Memorandum of Agreement was with the Commission for Technical Cooperation in Africa (CCTA), the Ministry of Economic Development for the Government of the Federation of Nigeria, Ahmadu Bello University, USDA and AID.

Dr. George F. Sprague, senior cereal geneticist at USDA in charge of corn and sorghum research in the U. S. is the Project Director. The principal field investigator is Dr. Orrin J. Webster.

The objective of the project is to increase crop yields and total output through varietal improvement, better methods of disease and insect control, and improved cultural and management practices developed by research in the region.

During FY 1967 ARS scientists posted in Nigeria, Kenya and Uganda continued or initiated experiments involving: (1) successive hybridization first to isolate and then to recombine the desired cereal characteristics necessary to obtain higher yields; (2) measures to control pests, and (3) the best feasible agronomic practices such as soil preparation, time of planting, and rate of seeding. Priority will be given to incorporating breeding lines from the USDA world-wide collection of seeds of sorghums, and corn (maize). Experiments will be designed and executed with the goal of increasing yields in ways adaptable to African cultures.

## Background Notes-Major Cereals,Africa

During 1967-68 research will be conducted on the palatability, nutritional and processing characteristics of sorghum.

In addition to the technical services outlined in the original PASA, USDA/ARS will station a man in Nairobi to work with local scientists and industrialists to develop sorghum-based foods suitable for African tastes.

A team of two men (one from the Western Wheat Laboratory and the other from the Western Utilization Lab.) visited East Africa to draft a research program leading to the development of methods suitable for use in the village for preparing palatable foods from locally grown sorghum.

The USDA team works in Nigeria, Kenya and Uganda and maintains continuous liaison with plant breeders in several other countries of Africa. Its efforts are directed toward developing better varieties, suitable methods of cultivation and plant protection, to building up the capability of local research workers and institutions and to extending the results of their research to farmers and other agricultural workers.

High yielding varieties of the major cereals have been identified, a crossing program started and new hybrids developed. Hybrids of maize are now being produced by a local seed company and hybrid production of sorghum is expected this year. Several sources of resistance to blight and headsmut in sorghum have been identified and are being incorporated in the breeding program.

Two regional seminars have been held with a total of 20 countries being represented by 32 plant breeders. Four professional articles have been published or have been accepted for publishing and the new seed is being accepted by farmers. It is estimated that enough seed is now being produced to plant about a half million acres of the improved varieties of maize in 1967, over half of which will be purchased by small farmers.

The main location in West Africa is the Agricultural Research Institute of Ahmadu Bello University, located at Samaru, Nigeria.

In East Africa, the cooperative sorghum and millet work is headquartered at the Uganda Research Station at Serere under the sponsorship of EACSO.

The maize work is located at the Maize Research Center at Kitale, Kenya.

Kenya farmers planted an estimated 300,000 acres of hybrid corn this year--remarkable acreage in view of the fact that when hybrid corn was first offered for sale in 1953 farmers planted only 400 acres. The newest hybrids are capable of yielding more than 70 bushels per acre in Kenya's best corn-growing areas. In the past, local varieties yielded about 12 bushels per acre. The breeding improvement program was developed by the AID, the Kenya Government, Great Britain's Ministry of Overseas Development, the Rockefeller Foundation, and USDA.

IADS Newsletter  
November, 1967

BETWEEN THE DEPARTMENT OF STATE, AGENCY FOR INTERNATIONAL DEVELOPMENT (AID), AN AGENCY OF THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AND THE TREASURY

AN AGENCY OF THE GOVERNMENT OF THE UNITED REPUBLIC OF TANZANIA

21-11-70  
Date

The above-named parties hereby mutually agree to carry out a project in accordance with the terms set forth herein and the terms set forth in any annexes attached hereto, as checked below:

PROJECT NUMBER: 621-11-110-107  
PAGE 1 OF 2 PAGES

71-1  
ORIGINAL OR  
DUPLICATE

PROJECT DESCRIPTION  PROJECT OBJECTIVES

PROJECT LOCATION  PROJECT PERIOD

AGRICULTURE RESEARCH

This Project is being carried out with the aid of the following equipment listed in the attached schedule of equipment:

PROJECT START DATE: 6 Feb 1968

PROJECT END DATE: \_\_\_\_\_

OTHER

72-1111004 154-50-621-00-69-11

PROJECT FINANCING  PAYMENTS  LOANS

PROJECT COSTS: 75,000 TO DATE: 75,000

PROJECT COSTS: 70,000 TO DATE: 70,000

PROJECT COSTS: 5,000 TO DATE: 5,000

PROJECT COSTS: \_\_\_\_\_ TO DATE: \_\_\_\_\_

USAID  
Classified  
FRM 501  
COR 514  
A/DIR

See Section VI of Annex A.

Reference: August 21, 1970

13. SIGNATURE FROM CONTRIBUTING DATE  
December 31, 1971

STATE  
132335

*James H. Roberts*  
Principal Secretary, Treasury

*Charles Nelson*  
Director, USAID/Tanzania

AID/Washington will issue the necessary Project Implementation Order(s)/ Technical Services (PIO/Ts) and enter into the contract(s) necessary to secure the services of the team members.

IV. U. S. Contribution

A. This project agreement provides the funds (\$70,000) required to obtain the services of five U. S. agricultural specialists for a period of approximately three months each beginning on or about 1 October 1970. An additional amount of up to \$5,000 may be provided to meet any local expenses of the Team which may exceed the local support provided by the Government of Tanzania under this agreement.

B. AID will also endeavor to obtain the services of short-term consultants as required to assist the team from time to time during the study from other bilateral donors, regional or international agencies, provided such services can be obtained at minimal or no additional costs to the U. S. Government.

V. Government of Tanzania Contribution

The Government of Tanzania agrees to provide the following services in support of the five members of the study team and any short-term consultants used in connection with the study:

1. Office space and office equipment and supplies as required;
2. Transportation within Tanzania as required and available; and
3. Interpreter services as required.

VI. Special Provisions

A. The personnel provided by U.S. AID under this agreement fall within the category of personnel described in Section 5 (d) of the Agreement for Technical Co-operation of February 8, 1968, between the United Republic of Tanzania and the United States of America, so far as basic privileges and benefits are concerned. Except to the extent modified by the Agreement when in the preceding sentence, the terms and conditions of the Standard Provisions Annex (copy attached) also apply hereto.

B. A.I.D. will provide dollars for its share of any local costs under this Agreement through special letters of credit financing in the co-operating country.

PROJECT AGREEMENT

BEYOND AID AND

THE TREASURY

MINISTRY OF AGRICULTURE, FOOD AND CO-OPERATIVES

THE UNITED REPUBLIC OF TANZANIA

1. Project Study No.

621-11-110-107

2. Agreement No.

71-1

3. Description Title

PAGE 1 OF 2 PAGES

3. Contract or

Reference No.

AGRICULTURE RESEARCH

The purpose of this Project Agreement is to implement Phase II of an Agriculture Research Study following upon a reconnaissance survey undertaken by AID during the second quarter of 1970. The Phase II study is now being initiated at the request of the Ministry of Agriculture, Food and Co-operatives.

I. Background Information

See Trip Report: Survey of Agricultural Research Needs of Tanzania, April 6 - May 13, 1970, by Howard B. Sprague and Nels Konnerup, USAID/TA/AGF.

II. Project Objectives

The broad objective of the proposed agricultural research study is to prepare a report that will assist Tanzania in determining the most economical agricultural research program required to meet Tanzania's needs for maximum agriculture and rural development within the next 10 - 15 years.

III. Project Description

The project will include a field study period of about three months in Tanzania (and Uganda and Kenya, as may be necessary), involving five agricultural researchers plus short-term consultants, to obtain information on research capabilities and activities, to consult with agricultural researchers and other personnel of the Government of Tanzania on the nation's research needs; to review and evaluate the current research program, and to make recommendations for optimum improvement of the research system.

The team will formulate a detailed, time-phased national agriculture research system and development program for Tanzania to serve as an integral part of the national development effort. In formulating the national agriculture research system, full consideration will be given to joint research programs with other national, regional and international research institutions to avoid duplication of efforts.

The detailed scope of work for the study team will be mutually agreed upon between the Ministry of Agriculture, Food and Co-operatives and A.I.D. Based upon this scope of work, a draft report of the agriculture research study will be completed for review by USAID and the Ministry of Agriculture, Food and Co-operatives prior to the team's departure from Tanzania.

Pursuant to this agreement and the mutually agreed upon scope of work,

FOR THE UNITED STATES OF AMERICA

FOR TANZANIA

DATE

PROJECT AGREEMENT  
BETWEEN AID AND

A. Project No. 621-11-110-107  
B. Agreement No. 71-1  
C. Expendable Title

PAGE 2 OF 2 PAGES  
D. Date of Signature  
E. Revision No.

THE TREASURY

AN AGENCY OF THE GOVERNMENT OF  
The United Republic of Tanzania

AGRICULTURE RESEARCH

AID Financing:

Details of U.S. Contribution by Cost Component and Method of Implementation

Cost Component Method of Implementation	Previous Total	Increase	Decrease	Total to Date
TOTAL	_____	<u>75,000</u>	_____	<u>75,000</u>
Personnel Services:	////////	////////	////////	////////
PASA Contract	_____	<u>70,000</u>	_____	<u>70,000</u>
Participants	////////	////////	////////	////////
Direct AID PASA Contract	_____	_____	_____	_____
Commodities	////////	////////	////////	////////
Direct AID PASA Contract	_____	_____	_____	_____
Other Costs	////////	////////	////////	////////
Direct AID PASA Contract	_____	<u>5,000</u>	_____	<u>5,000</u>

For the Contracting Government or Agency

For the Agency for International Development

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
TITLE \_\_\_\_\_

PD-AAB-590

PROJECT AGREEMENT  
BETWEEN THE DEPARTMENT OF STATE, AGENCY FOR INTERNATIONAL DEVELOPMENT (AID), 17,  
AN AGENCY OF THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AND  
THE TREASURY

AN AGENCY OF THE GOVERNMENT OF THE UNITED STATES OF AMERICA THE UNITED REPUBLIC OF TANZANIA

The undersigned parties hereby agree to carry out a project in accordance with the terms of this Agreement and the terms of the financial and technical assistance attached hereto, as attached below.

1. PROJECT NUMBER: 621-11-110-107  
2. PROJECT TITLE: AGRICULTURAL RESEARCH  
3. PROJECT PERIOD: 72-6

4. PROJECT DESCRIPTION: AGRICULTURAL RESEARCH  
The project consists of the following activities: (a) research on the production and utilization of agricultural products; (b) research on the utilization of agricultural products; (c) research on the utilization of agricultural products.

5. PROJECT START DATE: Feb. 8, 1968

6. PROJECT BUDGET: 72-1121004, 254-50-621-00-69-21

7. PROJECT COSTS: 364,800

(See Page 2 for component breakdown)

8. PROJECT MONITORING: 71.1.50 (approx)

(See Section VI)

9. PROJECT REPORTS: (See Section VI)

10. PROJECT FUNDING: This Agreement provides FY 72 funding for the first year of project implementation. FY 71 funds were provided for a preliminary survey.

11. PROJECT CERTIFICATION: The Mission Director certifies in accordance with Section III, M.O. 712.4, that the FPOs in support of this Agreement will be issued within six months of the signing of this Agreement.

12. PROJECT SIGNATURES: November 15, 1971; October 31, 1974

13. PROJECT APPROVALS: [Signatures and dates]

11/11/71 Date  
11/11/71 Date  
Mission Director, Planning and Research  
Education Director  
Principal Secretary, Min. of Agric. 800-001

11/11/71  
11/11/71  
11/11/71  
11/11/71  
11/11/71

ONE (5200-11) PRO AG CONTRIBUTION SHEET ANNEXXX	PROJECT AGREEMENT BETWEEN AID AND THE TREASURY	1. Project/Activity No. 021 11 150 107	PAGE 2 OF 2 PAGES
	AN AGENCY OF THE GOVERNMENT OF THE UNITED REPUBLIC OF TANZANIA	2. Agreement No. 72-	3. <input checked="" type="checkbox"/> Original or Revision No. _____
		3. Project/Activity Title AGRICULTURAL RESEARCH	

AID FINANCING:

Details of U.S. Contribution by Cost Component and Method of Implementation

Cost Component Method of Implementation	Previous Total	Increase	Decrease	Total to Date
TOTAL	_____	<u>\$364,800</u>	_____	<u>\$364,800</u>
Personnel Services	////////	////////	////////	////////
PASA Contract	_____	<u>\$250,000</u>	_____	<u>\$250,000</u>
Participants	////////	////////	////////	////////
Direct AID PASA Contract	_____	<u>\$ 32,800</u>	_____	<u>\$ 32,800</u>
Commodities	////////	////////	////////	////////
Direct AID PASA Contract	_____	<u>\$ 36,000</u>	_____	<u>\$ 36,000</u>
Other Costs	////////	////////	////////	////////
Direct AID PASA Contract	_____	<u>\$ 46,000</u>	_____	<u>\$ 46,000</u>

For the Corporation, Representative of Agency

For the Agency for International Development

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
TITLE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
TITLE: \_\_\_\_\_

AID 183-0-1A (2-70)  <b>PRO AG</b> CONTINUATION SHEET  ANNEX <u>A</u>	<b>PROJECT AGREEMENT</b> BETWEEN AID AND <b>THE TREASURY</b>	1. Project/Activity No. 621-11-110-107	PAGE <u>1</u> OF <u>15</u> PAGES
		2. Agreement No. . 72-	3. <input checked="" type="checkbox"/> Original or Revision No. _____
	AN AGENCY OF THE GOVERNMENT OF <b>THE UNITED REPUBLIC OF TANZANIA</b>	3. Project/Activity Title AGRICULTURAL RESEARCH	

**I. SUMMARY**

This project agreement provides for technical assistance to strengthen the agricultural research program of the Tanzanian Ministry of Agriculture and Cooperatives. It is based in part on a study financed under this project in FY 1971.

Beginning in US FY 1972, USAID will provide technical assistance in three research fields: (1) Research planning and administration; (2) maize breeding and agronomic research; and (3) edible legume breeding and agronomic research. It is expected that additional technical assistance in other fields, particularly animal and pasture research, soil science and agricultural engineering, will subsequently be programmed by mutual agreement of the Government of Tanzania and USAID. It is expected that this additional technical assistance may take the form of teams of research workers assigned to specific projects.

This project will assist and support the Ministry of Agriculture and Cooperatives in carrying out an agricultural research program needed to increase and improve agricultural production to meet the needs of Tanzania and the goals of the Second Five-Year Plan and of later Plans.

Subject to the availability of funds and mutually satisfactory progress toward objectives, this project is scheduled to continue for approximately ten years. The project is subject to termination by the Government of Tanzania or by USAID upon giving at least three months' written notice.

The project will be evaluated annually by the Ministry of Agriculture and Cooperatives and by USAID to assess progress and development, need for modification, and feasibility of expansion.

**II. OBJECTIVES**

The initial objective is to strengthen certain key areas of agricultural research in Tanzania. The key areas for which technical assistance will first be provided are: (1) Research planning and administration; (2) maize breeding and agronomic research; and (3) edible legume breeding and agronomic research.

During the preparation of the work plan for USAID technical assistance provided in this project agreement and during the implementation of the work plan, additional research areas and additional technical assistance positions will be identified for which technical assistance may subsequently be added by joint agreement of the Government of Tanzania and USAID.

For the Cooperating Government or Agency		For the Agency for International Development	
SIGNATURE: _____	DATE: _____	SIGNATURE: _____	DATE: _____
TITLE: _____		TITLE: _____	

AID 1330-1A (2-70)	PROJECT AGREEMENT BETWEEN AID AND THE TREASURY	1. Project/Activity No. 621-11-110-107	PAGE 2 OF 15 PAGES
		2. Agreement No. 72-	3. <input checked="" type="checkbox"/> Original or Revision No. _____
		3. Project/Activity Title	
PRO AG CONTINUATION SHEET	AN AGENCY OF THE GOVERNMENT OF THE UNITED REPUBLIC OF TANZANIA	AGRICULTURAL RESEARCH	
ANNEX A			

In research planning and administration the specific objectives include improvements in (1) budget preparation; (2) project planning and evaluation; (3) manpower development; and (4) reporting and utilization of research findings and results.

For maize breeding and agronomic research the specific objectives include development of high yielding hybrids and varieties suitable for the major ecological areas of Tanzania and, particularly, suitable for high, medium, low, and coastal altitudes. Maize agronomic research has the specific objectives of developing agronomic practices suitable for these four altitudes. It is expected that during the project period improved high yielding varieties and hybrids will be made available for multiplication and distribution to farmers and that definitive recommendations on agronomic practices will be available for farmers.

Edible legume breeding and agronomic research have the specific objectives during the project period of making a collection of genetic material with potential value in Tanzania, identifying the crosses which will yield the most promising progenies, and developing agronomic practices to increase yields. By the end of the project period it is expected that some new high yielding varieties will be in the early stages of multiplication and that recommendations on agronomic practices will be available for farmers.

During the course of the project on-the-job and participant training will be provided as agreed to Tanzanian citizens in research planning and administration, maize breeding and agronomic research, edible legume breeding and agronomic research and in other research areas which may be added, with the objective of having essential research positions in these fields manned by qualified Tanzanians by the end of the project period.

### III. TECHNICAL ASSISTANCE

Technical assistance will be provided to the Ministry of Agriculture and Cooperatives by USAID through a contract with a qualified United States University. It is anticipated that this will help insure continuity of the research effort and of the training of research personnel. Initially the technical assistance will be in the three areas of research planning and administration, maize breeding and agronomic research, and edible legume breeding and agronomic research.

The Ministry of Agriculture and Cooperatives will establish the following positions for the initial team of USAID supplied technicians and will establish additional appropriate positions for such technicians as

For the Cooperating Government or Agency	For the Agency for International Development
SIGNATURE: _____ DATE: _____	SIGNATURE: _____ DATE: _____
TITLE: _____	TITLE: _____

AID 1220-1A 12-702 <b>PRO AG</b> CONTINUATION SHEET ANNEX A	<b>PROJECT AGREEMENT          BETWEEN AID AND          THE TREASURY</b>  AN AGENCY OF THE GOVERNMENT OF THE UNITED REPUBLIC OF TANZANIA	1. Project/Activity No. 621-11-110-107 2. Agreement No. 72-- 3. Project/Activity Title AGRICULTURAL RESEARCH	PAGE 3 OF 15 PAGES 3. <input checked="" type="checkbox"/> Original or Revision No. _____
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may be subsequently jointly agreed upon, and USAID will provide qualified technicians acceptable to the Ministry and the Government of Tanzania to fill these positions for the periods indicated:

1. Research Coordinator, Research Training and Farmers' Education Division.

In collaboration with the Chief Research Officers and under the general supervision and direction of the Division Director, who is available for advice and consultation and who will supply policy guidance and direction and make policy determinations, the Research Coordinator will as directed by the Division Director assist in planning and administering the research work of the Division.

As assigned by the Division Director, duties will include:

1. Review, evaluation and preparation of institutional and national research plans and programs.
2. Coordination of research among Tanzanian institutions and other national and international research organizations.
3. Preparation of research projects for foreign donor assistance.
4. Review and preparation of financial estimates and budgets for individual research projects and institutions and for the research program of the Division as a whole.
5. Review and preparation of station reports.
6. Review, preparation, and publication of reports of research carried out by the Division.
7. Review and preparation of research organization and staffing plans.
8. Preparation of recruitment and training programs for research and training personnel.

All work of the Research Coordinator will be reviewed by the Division Director for compliance with policy.

The Research Coordinator will have particular responsibility for

For the Cooperating Government or Agency  SIGNATURE: _____ DATE: _____ TITLE: _____	For the Agency for International Development  SIGNATURE: _____ DATE: _____ TITLE: _____
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AID 188C-1A (2-70)  <b>PRO AG</b>  CONTINUATION SHEET  ANNEX A	<b>PROJECT AGREEMENT</b> BETWEEN AID AND <b>THE TREASURY</b> AN AGENCY OF THE GOVERNMENT OF <b>THE UNITED REPUBLIC OF TANZANIA</b>	1. Project/Activity No. 621-11-110-107	PAGE 4 OF 15 PAGES
		2. Agreement No. 72-	3. <input checked="" type="checkbox"/> Original or Revision No. _____
			3. Project/Activity Title AGRICULTURAL RESEARCH

assisting the Division Director with the programming of additional technical assistance from USAID and other donors.

The need for continued technical assistance in this position will be evaluated at the end of each two year tour. The decision to fill the position for each succeeding tour will be based upon the justification resulting from the evaluation of the preceding tour.

Technical assistance may be provided in this position for up to eight years.

Duty station of the Research Coordinator will be Dar es Salaam.

### 2. Maize Research Officer

Under the general supervision of the Director, Ukiriguru Research and Training Institute, this officer will serve as Deputy to the Tanzanian officer in charge of the Tanzanian maize breeding and agronomic research programs and will be in charge during any vacancies in the latter position. His duties will include development of hybrids and varieties suitable for the major ecological zones of Tanzania, particularly for high, medium, low, and coastal altitudes. Agronomic research will be directed toward developing improved agronomic practices suitable for these four altitude zones. The breeding and agronomic research conducted will make full use of breeding and agronomic research in maize done by the East African Community research organizations and of other foreign research. This officer will assist in planning varietal adaptation testing of EAAFR0 and other exotic varieties and hybrids and in coordinating the maize breeding and agronomic research work done by the various research institutes in Tanzania. He will perform related duties as assigned.

Technical assistance may be provided in this position for up to eight years.

Duty station will be Ukiriguru Research and Training Institute.

### 3. Edible Legume Research Officer

Under the general supervision of the Director, Ukiriguru Research and Training Institute, this officer will be in charge of the Tanzanian edible legume breeding and agronomic research programs until such time as a Tanzanian officer is appointed. He will then serve as Deputy to the Tanzanian officer. The edible legumes for which breeding and/or agronomic

For the Cooperating Government or Agency		For the Agency for International Development	
SIGNATURE: _____	DATE: _____	SIGNATURE: _____	DATE: _____
TITLE: _____		TITLE: _____	

AID 1850-1A (9-70)  <b>PRO AG</b> CONTINUATION SHEET  ANNEX A	<b>PROJECT AGREEMENT</b> BETWEEN AID AND  <b>THE TREASURY</b>	1. Project/Activity No. 621-11-110-107	PAGE 5 OF 15 PAGES
		2. Agreement No. 72-	3. <input checked="" type="checkbox"/> Original or Revision No. _____
	AN AGENCY OF THE GOVERNMENT OF  <b>THE UNITED REPUBLIC OF TANZANIA</b>	3. Project/Activity Title  <b>AGRICULTURAL RESEARCH</b>	

research work is to be conducted may include soybeans, cowpeas, chickpeas, french beans, and grams. The breeding and agronomic research work will be directed toward developing improved varieties and agronomic practices for the major ecological zones of Tanzania, and will make the fullest use of breeding and agronomic research in edible legumes done by the East African Community research organizations and of other foreign research. This officer will be responsible for planning varietal adaptation testing of exotic edible legume varieties in Tanzania. He will perform related duties as assigned.

Technical assistance may be provided in this position for up to ten years.

Duty station will be Ukiriguru Research and Training Institute.

4. Agronomic Research Officer

Under the general supervision of the Director, Ukiriguru Research and Training Institute, this officer will plan, direct, and conduct research on agronomic practices. The research will include date of planting, seed-bed preparation, fertilizer, spacing, weed control, harvesting, and other practices needed to increase production. Priority will be given to maize and edible legumes, but research may also be done on other crops as specified by the Division Director. This officer will perform related duties as assigned.

Technical assistance may be provided in this position for up to eight years.

Duty station will be Ukiriguru Research and Training Institute.

In order to insure the effectiveness of the technical assistance provided in this Project Agreement, the Ministry of Agriculture and Cooperatives will provide at least two Tanzanian officers as counterparts (or replacement trainee officers) for each USAID-supplied technician except for the Research Coordinator. USAID will provide on-the-job and/or participant training to these Tanzanian officers as required and agreed. These Tanzanian officers will work full-time in the areas of maize breeding and agronomic research, edible legume breeding and agronomic research, and in general agronomic research, as assigned, and will not be transferred to other work during the life of the project except with the prior written agreement of USAID. Minimum qualifications for the Tanzanian officers specified in this paragraph will be a B.Sc. in agricultural science or a recognized diploma in agriculture. During any period when a counterpart

For the Cooperating Government or Agency		For the Agency for International Development	
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TITLE: _____		TITLE: _____	

AID 133 D-1 A (3-70)  <b>PRO AG</b>  CONTINUATION SHEET  ANNEX <u>A</u>	<b>PROJECT AGREEMENT</b> BETWEEN AID AND  <b>THE TREASURY</b>  AN AGENCY OF THE GOVERNMENT OF <b>THE UNITED REPUBLIC OF TANZANIA</b>	1. Project/Activity No. 621-11-110-707	PAGE <u>6</u> OF <u>15</u> PAGES
		2. Agreement No. 72-	3. <input checked="" type="checkbox"/> Original or Revision No. _____
		3. Project/Activity Title <b>AGRICULTURAL RESEARCH</b>	

officer is away from his post on participant training, a replacement officer will be provided.

Each USAID-supplied technician will be appointed by the Ministry of Agriculture and Cooperatives to a Tanzanian Government position and grade suitable to his qualifications and duties as agreed by the Director of Research and the USAID Food and Agriculture Officer.

The Ministry of Agriculture and Cooperatives will provide a minimum of Shs. 120,000 per year for the program of the USAID-supplied Maize Research Officer and his two Tanzanian counterpart officers, a minimum of Shs. 120,000 per year for the program of the USAID-supplied Edible Legumes Research Officer and his two Tanzanian counterpart officers, and a minimum of Shs. 120,000 per year for the program of the USAID-supplied Agronomic Research Officer and his two Tanzanian counterpart officers. These funds will be used for non-salary program operating expenses, including supplies, fertilizer, seed stocks, travel expenses, vehicle maintenance and petrol, casual labor, and payment to farmers. Utilities, office supplies, building maintenance, secretarial and clerical assistance, telephone and telegraph, postage, and technical assistants will be paid from other funds.

#### IV. COURSE OF ACTION

USAID will initially contract for the services of four research technicians: (1) Research Coordinator; (2) Maize Research Officer; (3) Edible Legume Research Officer; and (4) Agronomic Research Officer. USAID will endeavor to have this team of research technicians arrive in Tanzania by July 1, 1972, or as soon thereafter as possible.

USAID may subsequently contract for the services of such additional research technicians as may jointly be agreed upon by the Government of Tanzania and USAID.

Upon arrival in Tanzania, each USAID-supplied technician in maize research edible legume research, and agronomic research will, in cooperation with his counterpart officers and with other officers working in his field, review recent progress and draw up proposals for his work program in the short and long term. These progress reports and proposals will be presented for discussion with institutional Directors and will be submitted for approval in line with ministerial procedure. Following this the USAID technicians in cooperation with their Tanzanian counterpart officers, will prepare a detailed work plan for the first two years of the project, and a less detailed plan for the remaining years of the project. The work plan for the first two years will include a detailed scope of work and objectives or targets for the fields

For the Cooperating Government or Agency

For the Agency for International Development

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 TITLE: \_\_\_\_\_

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 TITLE: \_\_\_\_\_

AID 1980-1A (2-701)  <b>PRO AG</b> CONTINUATION SHEET  ANNEX <u>A</u>	<b>PROJECT AGREEMENT</b> BETWEEN AID AND  <b>THE TREASURY</b>	1. Project/Activity No. 621-11-110-107	PAGE <u>7</u> OF <u>15</u> PAGES
		2. Agreement No. 72-	3. <input checked="" type="checkbox"/> Original or Revision No. _____
	AN AGENCY OF THE GOVERNMENT OF  <b>THE UNITED REPUBLIC OF TANZANIA</b>	3. Project/Activity Title  AGRICULTURAL RESEARCH	

of maize breeding and agronomic research, and edible legume breeding and agronomic research, and will consider the expansion in due course of this research project to other research fields. The work plan will then be submitted for approval by the Division Director and by USAID. The work plan will be reviewed, and if necessary, revised annually.

Within six months of the arrival of the USAID-supplied technicians in Tanzania, the Research Coordinator, under the general direction of the Division Director and in cooperation with other officers of the Ministry of Agriculture and Cooperatives designated by him, will prepare a detailed research manpower development program, including both on-the-job and participant training elements, to meet Tanzanian agricultural research staffing needs. This plan will take into account efforts of other donors in this field.

For the Cooperating Government or Agency

For the Agency for International Development

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 TITLE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 TITLE: \_\_\_\_\_

## PROJECT AGREEMENT

BETWEEN AID AND

THE TREASURY

AN AGENCY OF THE GOVERNMENT OF  
THE UNITED REPUBLIC OF TANZANIA1. Project/Activity No.  
621-11-110-107

PAGE 8 OF 15 PAGES

2. Agreement No.  
72- 63.  Original or  
Revision No.

3. Project/Activity Title

Agricultural Research

V. U.S. GOVERNMENT CONTRIBUTIONA. Summary

Subject to the annual availability of funds and mutually satisfactory progress toward objectives, this Project is scheduled to continue for approximately ten years. During this period USAID will provide the services of technicians, commodities, participant training, and specified other costs. This Project Agreement provides US FY 1972 funding for the project. Subject to the conditions specified above, subsequent funding will be added by annual supplements to this Project Agreement.

B. U.S. FY 1972 Contributions \$ 364,8001. Personnel Services (Contract) 250,000

USAID will provide 18 months initial funding and contract for the services of the following four technicians and pay their salaries, allowances, and benefits.

- (1) Research Coordinator
- (2) Maize Research Officer
- (3) Edible Legume Research Officer
- (4) Agronomic Research Officer

Under funding provided in this Project Agreement USAID will also contract, as required, for the services of short-term consultants.

2. Participant Training 32,800

These funds will provide for one year of training costs in the United States and for a portion (London/U.S./London) of international transportation for four Tanzanian citizens to be trained for service under this project.

For the Cooperating Government or Agency

For the Agency for International Development

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

TITLE: \_\_\_\_\_

TITLE: \_\_\_\_\_

PROAG  
CONTINUATION  
SHEET  
ANNEX A

PROJECT AGREEMENT

BETWEEN AID AND

THE TREASURY

AN AGENCY OF THE GOVERNMENT OF  
THE UNITED REPUBLIC OF TANZANIA

1. Project/Activity No.  
621-11-110-107

2. Agreement No.  
72- 6

3.  Original or  
Revised No.

3. Project/Activity Title

Agricultural Research

3. Commodities \$ 36,000

These funds include \$24,000 for the purchase of four project vehicles and spare parts and \$12,000 for the purchase of research equipment. The vehicles will be titled in the Government of Tanzania which will be responsible for petrol, maintenance, and servicing, but will remain under the administrative control of the USAID-supplied personnel until no longer required for their support. At the latter time, vehicles will be turned over to the Government of Tanzania. (See Section VIII, General Provisions, Subsection B).

Subject to the availability of funds it is intended that in U.S. FY 1973 \$20,000 will be programmed as a U.S. Government contribution for purchase of equipment for a new seed storage laboratory which will be constructed by the Ministry of Agriculture and Cooperatives at Ukiriguru Research and Training Institute.

4. Other Costs \$ 46,000

These funds include \$36,000 to assist in defraying the costs of constructing and furnishing three Government Class A houses as described in Section VII, Special Provisions for Housing, of this Project Agreement. These three houses will be constructed at the Ukiriguru Research and Training Institute for use of the USAID-supplied personnel assigned to this Institute. A house for the Research Coordinator will be provided in Dar es Salaam from USAID-financed housing provided under other project agreements, pending any construction of additional housing under this project pursuant to subsequent agreements.

These funds include \$10,000 to insure that there is adequate coordination of the Tanzanian research efforts with those of regional and international research organizations and with other foreign research. Such funds may be used to send Tanzanian research personnel to observe and study the operation of appropriate research facilities and obtain short-term services of technical research specialists to assist the Tanzanian Government on specific problems or assist in evaluation of research results as appropriate. Funds for these purposes will be authorized by separate documentation as and when needed.

For the Cooperating Government or Agency

For the Agency for International Development

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
TITLE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
TITLE: \_\_\_\_\_

**PROJECT AGREEMENT  
BETWEEN AID AND  
THE TREASURY**

AN AGENCY OF THE GOVERNMENT OF  
THE UNITED REPUBLIC OF TANZANIA

1. Project/Activity No.  
621-11-110-107

2. Agreement No.  
72-6

3. Project/Activity Title

Agricultural Research

3.  Original or  
Revision No.

VI. GOVERNMENT OF TANZANIA CONTRIBUTION

A. Summary

Subject to the annual availability of financial resources and mutually satisfactory progress toward achievement of project objectives, the Government of the United Republic of Tanzania agrees to make funds and personnel available as specified in the annual recurrent and development budgets and the Second Five Year Plan and successor Plans on a timely basis for effective project operations.

B. Specific Contributions of the Government of Tanzania

1. For support of U.S. project personnel, the Government of Tanzania will provide:

a. A cash contribution of 21,600 shillings per man-year for each U.S. project technician to be paid by the Ministry of Agriculture and Cooperatives into a Trust Account in Tanzania in the name of the U.S. Agency for International Development. This contribution will be used to meet local costs of the USAID technical assistance program in Tanzania.

b. Housing and hard furnishings in accordance with the standards established by the Government of Tanzania as normally provided for Tanzanian Government employees of comparable rank. Since personnel provided under this Project Agreement will not receive direct compensation from the Tanzanian Government, housing and hard furnishings will be provided at no cost to the technicians.

c. Medical services, local transport, office facilities and supplies, and secretarial services as normally provided for Tanzanian Government employees of comparable rank.

2. For support of training opportunities provided by the USAID under the terms of this project, the Government of Tanzania agrees to nominate qualified and suitable candidates and to provide the internal Tanzanian and the Dar es Salaam/London/Dar es Salaam portion of international transportation costs, partial salary while in training and initial clothing allowances in keeping with normal Government procedures for USAID-financed trainees.

For the Cooperating Government or Agency

For the Agency for International Development

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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**PROJECT AGREEMENT**

BETWEEN AID AND

**THE TREASURY**

AN AGENCY OF THE GOVERNMENT OF  
**THE UNITED REPUBLIC OF TANZANIA**

1. Project/Activity No.  
621-11-110-107

2. Agreement No.  
72- 6

3. Project/Activity Title

Agricultural Research

3  Original or  
Revision No.

3. For accomplishment of project objectives the Government of Tanzania will provide at least two counterpart research officers for each of the U.S. technicians, except the Research Coordinator, and pay their salaries (estimated at Shs. 18,000 per man per year).

4. For support of project operations the Government of Tanzania will provide maintenance, oil and petrol for the vehicles to be provided by USAID for use of U.S. personnel.

5. For support of project operations the Government of Tanzania will finance all administrative and operational expenses of the agricultural research program in Tanzania and will include in annual budgets and provide Shs. 120,000 per year for non-salary program costs of the Maize Research Officer and his two Tanzanian counterparts, Shs. 120,000 per year for non-salary program costs for the Edible Legume Research Officer and his two Tanzanian counterparts, and Shs. 120,000 per year for non-salary program costs of the Edible Legume Research Officer and his two Tanzanian counterparts. (See Section III, Technical Assistance, of this Project Agreement).

VII. SPECIAL PROVISIONS FOR HOUSING

USAID will provide up to \$36,000 under this Project Agreement to assist in defraying the costs of constructing and furnishing Government Class A housing to be built by and titled in the Government of Tanzania. The housing will be reserved for assignment by USAID to U.S. financed technical personnel provided under this Project Agreement or other Project Agreement under the U.S. technical assistance program in Tanzania. When not otherwise occupied by or required for such personnel, the housing units shall also be available for assignment to the members of the staff attached to the U.S. AID Mission to Tanzania or its successor organizations.

Approximately one-half of the above sum (or T.Shs.127,500) shall be considered as a ten-year, interest free credit repayable in Tanzanian shillings under terms specified herein. The balance of the \$36,000 will be considered as a grant to the Government of Tanzania requiring no repayment.

The Ministry of Communications, Transport and Labour will arrange for the building of the housing units. A minimum of three housing units will be built in accordance with this Project Agreement. Each

For the Cooperating Government or Agency

For the Agency for International Development

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ANNEX

## PROJECT AGREEMENT

BETWEEN AID AND

THE TREASURY

AN AGENCY OF THE GOVERNMENT OF  
THE UNITED REPUBLIC OF TANZANIA1. Project/Activity No.  
621-11-110-107

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2. Agreement No.  
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Revision No.

3. Project/Activity Title

Agricultural Research

housing unit will be constructed in accordance with plans and standards accepted and approved in advance by the U.S. AID Mission and will include a hot water heater and hot water plumbing, basic furnishings and equipment in accordance with the standards of Government Class A housing. The Government of Tanzania will provide the land, utility connections, all weather access roads, road maintenance, and maintenance and repair of the housing units and furnishings.

Payment or reimbursement to the Ministry of Communications, Transport and Labor by the USAID for the housing units constructed in accordance with this and associated Project Agreements between USAID and the Government of Tanzania will be made on monthly certifications of work completed. The housing so provided will be titled in the Government of Tanzania but will be reserved for assignment by the USAID to USAID-supplied technicians under this or other USAID-financed projects and, where necessary, to official USAID personnel attached to the U.S. AID Mission to Tanzania as long as needed up to the end of the U.S. technical assistance program in Tanzania. At such time as the USAID determines that the housing units are no longer required for assignment exclusively to U.S. project or official personnel and so notifies the Government of Tanzania, the housing units will be available at the discretion of the Government of Tanzania for inclusion in the lists of housing units considered in the standard assignment procedures of the Government Class A housing pool.

In return for the U.S. provided credit described herein, commencing December 31 of the first full calendar year following completion of the construction of each housing unit, the Government of Tanzania will pay annually to USAID over a period of ten years for each housing unit constructed the sum of T. Shs. 4,250/- (approximately U.S. \$600) until total repayment per housing unit has reached the sum of T. Shs. 42,500 (approximately U.S. \$6,000). The payment described herein shall be made into a Trust Account in Tanzania in the name of the U.S. Agency for International Development and will be used to meet local costs of AID-financed activities in connection with its program in Tanzania in accordance with the Trust Account Agreement between the Government of the United Republic of Tanzania and the Agency for International Development.

In cases where the housing unit is occupied by U.S. project or official personnel who do not receive salary payments from the Government of Tanzania, for the period during which the housing unit was so occupied the USAID will refund annually to the Government of Tanzania the sum of T. Shs. 2,160 (which is the equivalent of ten per cent of the annual

For the Cooperating Government or Agency

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PROJECT AGREEMENT  
BETWEEN AID AND

1. Project/Activity No.  
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AN AGENCY OF THE GOVERNMENT OF  
THE UNITED REPUBLIC OF TANZANIA

3. Project/Activity Title

Agricultural Research

contribution of T.Shs. 21,600 which the Government of Tanzania normally makes to the USAID in lieu of direct salary payments for support of personnel). At such times when the housing unit is not occupied, for the purposes of calculating refundable amounts under this section, the unit will be considered to have been occupied by U.S. project or official personnel who do not receive salary payments from the Government of Tanzania. In all other cases, including those cases when the housing unit is occupied by U.S. project or official personnel who receive salary payments from the Government of Tanzania, rental shall be payable by the occupier to the Government of Tanzania in accordance with the occupier's terms of employment.

VIII. GENERAL PROVISIONS

A. The USAID-financed technicians recruited under this project will not be subject to transfer or reassignment outside this project, and will be assigned to the Division of Research, Training and Farmers' Education, Ministry of Agriculture and Cooperatives. The Research Coordinator will be supervised by the Division Director and each of the other three technicians will be supervised by the Director of the Research and Training Institute where he is stationed.

B. The vehicles provided by USAID under this Project Agreement will be for official project use under the control of the USAID-financed technicians during the life of the project, and the use of the vehicles shall conform to Tanzanian Government regulations. The title to the vehicles will be in the Government of Tanzania and the vehicles will be turned over to the Government of Tanzania on completion of the project.

C. Privileges and Immunities. The personnel provided by USAID under this Project Agreement fall within the category of personnel described in Section 5 (d) of the Agreement for Technical Cooperation of February 8, 1968 between the United Republic of Tanzania and the United States of America. The basic privileges and immunities provided are as follows:

1. Duty-free import privileges of used personal effects for 90 days after arrival in Tanzania.

2. Duty-free import privileges of one motor vehicle, one refrigerator, and one air-conditioning unit in accordance with the Customs Tariff (Remission of Customs Duties) (Technical Assistance Projects and Personnel) Order, 1970.

For the Cooperating Government or Agency

For the Agency for International Development

SIGNATURE:

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**PROJECT AGREEMENT  
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THE TREASURY**

1. Project/Activity No.  
621-11-110-107

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- 3. Currency exchange facilities afforded to officials of comparable rank in the Tanzanian Government.
- 4. Exemption from taxation on the U.S. salary and emoluments.
- 5. Immunity from Tanzania's national service obligation for employees and their dependents.
- 6. Immunity from immigration restrictions and alien registration.
- 7. Exemption from the registration tax imposed by the Private Motor Vehicles Registration Tax Act, 1964.

D. The USAID-financed personnel provided under this Project Agreement will be protected against criminal prosecution and/or civil action arising from their official positions as hereinafter provided.

1. When a criminal prosecution or civil action is instituted against any of the USAID-financed personnel provided under this Project Agreement as a result of his official position or of an act done or omitted in the course of his official duties, he will be at liberty to apply to the Principal Secretary, Ministry of Agriculture and Cooperatives, for assistance in his defense.

2. The Principal Secretary, Ministry of Agriculture and Cooperatives, if satisfied that:

- a. The act was done or omitted in good faith in the execution of the official duties of the USAID-financed technician concerned and was not in contravention of any departmental regulations or instructions; or
- b. that the case is malicious and is brought solely on account of the official position which the technician holds; and
- c. that it is in the public interest that the technician should be defended at Government expense;

will immediately report the matter to the Attorney-General and ask for arrangements to be made for the technician's defense.

For the Cooperating Government or Agency

For the Agency for International Development

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
TITLE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
TITLE: \_\_\_\_\_

**PROJECT AGREEMENT  
BETWEEN AID AND  
THE TREASURY**

1. Project/Activity No.  
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AN AGENCY OF THE GOVERNMENT OF  
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3. In making reports to the Attorney-General under paragraph 2, the Principal Secretary, Ministry of Agriculture and Cooperatives, will include certificates in writing along the lines indicated in that paragraph.

4. If the Attorney-General is satisfied that it is proper and just to do so, he will, with the consent of the technician concerned, arrange for his defense by the Government. The cost of his defense will then be met by the Government.

5. If in a case in which his defense has been arranged under the preceding paragraphs the technician loses the case and is required to pay any sum by way of damage, costs, fine, or compensation, such payment will be made from public funds.

VIII. STANDARD PROVISIONS

Except to the extent modified by the preceding section of this Project Agreement, or by the February 8, 1968 Agreement for Technical Cooperation between the Government of the United Republic of Tanzania and the United States, the terms and conditions of the Standard Provisions Annex (copy attached) apply hereto.

For the Cooperating Government or Agency

For the Agency for International Development

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

TITLE: \_\_\_\_\_

TITLE: \_\_\_\_\_

AID 1330-1  
(0-24)

PRO AG

PROJECT AGREEMENT  
BETWEEN THE DEPARTMENT OF STATE, AGENCY FOR INTERNATIONAL DEVELOPMENT (AID),  
AN AGENCY OF THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AND  
THE TREASURY

7p.

AN AGENCY OF THE GOVERNMENT OF UNITED REPUBLIC OF TANZANIA

11/30/72  
Date

The above-named parties hereby mutually agree to carry out a project in accordance with the terms set forth herein and the terms set forth in any annexes attached hereto, as checked below:

- PROJECT DESCRIPTION ANNEX A  FOREIGN CURRENCY STANDARD PROVISIONS ANNEX  
 STANDARD PROVISIONS ANNEX  SPECIAL LOAN PROVISIONS ANNEX

This Project Agreement is further subject to the terms of the following agreement between the two governments, as modified and supplemented:

- GENERAL AGREEMENT FOR TECHNICAL COOPERATION DATE Feb. 8, 1968  
 ECONOMIC COOPERATION AGREEMENT DATE  
 (other) DATE

1. PROJECT/ACTIVITY NO. 621-11-110-107 PAGE 1 OF 7 PAGES

2. AGREEMENT NO. 73-4 3.  ORIGINAL OR REVISION NO. \_\_\_\_\_

4. PROJECT/ACTIVITY TITLE  
AGRICULTURAL RESEARCH

5. PROJECT DESCRIPTION AND EXPLANATION  
(See Annex A attached)

6. AID APPROPRIATION SYMBOL 72-1131004 7. AID ALLOTMENT SYMBOL 354-50-521-00-69-31

8. AID FINANCING	PREVIOUS TOTAL (A)	INCREASE (B)	DECREASE (C)	TOTAL TO DATE (D)
<input checked="" type="checkbox"/> DOLLARS <input type="checkbox"/> LOCAL CURRENCY				
(a) Total		192,000		192,000
(b) Contract Services	(See page 2 for Component breakdown)			
(c) Commodities				
(d) Other Costs				
9. COOPERATING AGENCY FINANCING - DOLLAR EQUIVALENT \$1.00 = 7.1 T.Sh (approx)				
(a) Total	(See Section VII of ProAg 72-6)			
(b) Technical and other Services				
(c) Commodities				
(d) Other Costs				

10. SPECIAL PROVISIONS (Use Additional Construction Sheets, if Necessary)

This Agreement provides FY 1973 funding for the second year of project implementation. The provisions of Project Agreement No. 72-6 dated November 15, 1971 as amended, remain unchanged.

The Mission Director certifies in accordance with Section III, M.O. 712.4, that the PIOs in support of this Agreement will be issued within three months of the signing of this Agreement.

11. DATE OF ORIGINAL AGREEMENT 12. DATE OF THIS REVISION 13. ESTIMATED FINAL CONTRIBUTION DATE November 30, 1975

14. FOR THE COOPERATING GOVERNMENT OR AGENCY  
SIGNATURE: *R. Brown* DATE: 11/30/72  
TITLE: Principal Secretary, Treasury

15. FOR THE AGENCY FOR INTERNATIONAL DEVELOPMENT  
SIGNATURE: *[Signature]* DATE: 11/30/72  
TITLE: Director, USAID/Tanzania

Acting Principal Secretary, Ministry of Agriculture

Mission Clearances

APO *[Signature]*  
F&A *[Signature]*  
TRG *[Signature]*  
CON *[Signature]*  
AD/CON *[Signature]*

AID 1186-1A  
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**PROJECT AGREEMENT  
BETWEEN AID AND  
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1. Project/Activity No.  
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**AID Financing:**

Details of U.S. Contribution by Cost Component and Method of Implementation

Cost Component Method of Implementation	Previous Total	Increase	Decrease	Total to Date
TOTAL	_____	192,000	_____	192,000
Personnel Services	////////	////////	////////	////////
PASA Contract	_____	4,000	_____	4,000
Participants	////////	////////	////////	////////
Direct AID PASA Contract	_____	28,000	_____	28,000
Commodities	////////	////////	////////	////////
Direct AID PASA Contract	_____	98,600	_____	98,600
Other Costs	////////	////////	////////	////////
Direct AID PASA Contract	_____	24,000	_____	24,000
	_____	9,400	_____	9,400

*jmc*  
*11/17/73*

For the Cooperating Government or Agency

For the Agency for International Development

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
TITLE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
TITLE: \_\_\_\_\_

AID 1320-1A (9-70)  <b>PRO AG</b> CONTINUATION SHEET  ANNEX	<b>PROJECT AGREEMENT</b> BETWEEN AID AND <b>THE TREASURY</b>  AN AGENCY OF THE GOVERNMENT OF <b>UNITED REPUBLIC OF TANZANIA</b>	1. Project/Activity No. <b>621-11-110-107</b> 2. Agreement No. <b>73-4</b> 3. Project/Activity Title <b>Agricultural Research</b>	PAGE 2 OF 7 PAGES 3. <input type="checkbox"/> Original or Revision No. _____
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The provisions of Project Agreement No. 72-6 dated November 15, 1971, as amended, remain unchanged except as revised herein. This Agreement provides FY 1973 funding as described in Section V.

I. SUMMARY  
(Unchanged)

II. OBJECTIVES  
(Unchanged)

III. TECHNICAL ASSISTANCE

Technical assistance will be provided to the Ministry of Agriculture by USAID through a contract with an institution qualified in basic and applied agricultural research. It is anticipated that this will help insure continuity of the research effort and of the training of research personnel. Initially the technical assistance will be in the three areas of research planning and administration, maize breeding and agronomic research, and edible legume breeding and agronomic research.

The Ministry of Agriculture will establish the following positions for the initial team of USAID-supplied technicians and will establish additional appropriate positions for such technicians as may be subsequently jointly agreed upon, and USAID will provide qualified technicians acceptable to the Ministry and the Government of Tanzania to fill these positions for the periods indicated:

1. Agronomist/Project Manager (formerly Research Coordinator)  
(Position description remains unchanged. See ProAg 72-6 pp.3-4.)
2. Maize Breeder (formerly Maize Research Officer)  
  
Duty station will be Ilonge Research and Training Institute.  
(Position description remains unchanged. See ProAg 72-6 p.4.)
3. Grain Legume Breeder (formerly Edible Legume Research Officer)  
  
Duty station will be Ilonge Research and Training Institute.  
(Position description remains unchanged. See ProAg 72-6 pp.4-5.)
4. Grain Legume Agronomist (formerly Agronomic Research Officer)  
  
Duty station will be Ilonge Research and Training Institute.  
(Position description remains unchanged. See ProAg 72-6 p.5.)

For the Cooperating Government or Agency

For the Agency for International Development

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
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SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
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AID 1226-1A 12-701  PRO AG CONTINUATION SHEET  ANNEX	PROJECT AGREEMENT BETWEEN AID AND THE TREASURY	1. Project/Activity No. 621-11-110-107	PAGE 4 OF 7 PAGES
	AN AGENCY OF THE GOVERNMENT OF UNITED REPUBLIC OF TANZANIA	2. Agreement No. 73-4	3. <input checked="" type="checkbox"/> Original or Revision No. _____
		3. Project/Activity Title Agricultural Research	

IV. COURSE OF ACTION

(Provisions of this section are changed as follows:)

USAID will initially contract for the services of four research technicians:

- (1) Agronomist/Project Manager
- (2) Maize Breeder
- (3) Grain Legume Breeder
- (4) Grain Legume Agronomist

USAID will endeavor to have this team of research technicians arrive in Tanzania by March 1, 1973, or as soon thereafter as possible.

USAID may subsequently contract for the services of such additional research technicians as may jointly be agreed upon by the Government of Tanzania and USAID.

Upon arrival in Tanzania, each USAID-supplied technician in maize research, edible legume research, and agronomic research will, in cooperation with his counterpart officers and with other officers working in his field, review recent progress and draw up proposals for his work program in the short and long term. These progress reports and proposals will be presented for discussion with Institutional Directors and will be submitted for approval in line with ministerial procedure. Following this the USAID contract technicians, in cooperation with their Tanzanian counterpart officers, will prepare a detailed work plan for the first two years of the project, and a less detailed plan for the remaining years of the project. The work plan for the first two years will include a detailed scope of work with objectives and targets for the fields of maize breeding and agronomic research, and edible legume breeding and agronomic research, and will consider the expansion in due course of this research project to other fields of agricultural research. The work plan will then be submitted for approval by the Ministry of Agriculture and by USAID. The work plan will be reviewed and, if necessary, revised annually.

Within six months of the arrival of the USAID-supplied technicians in Tanzania, the Agronomist/Project Manager, under the general direction of the Ministry of Agriculture, will prepare a detailed research manpower development program, including both on-the-job and overseas participant training elements, to meet Tanzanian agricultural research staffing needs. This plan will take into account efforts of other donors in this field.

For the Cooperating Government or Agency

For the Agency for International Development

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
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AID 1210-1A (3-70)  <b>PRO AG</b>  CONTINUATION SHEET  ANNEX	<b>PROJECT AGREEMENT          BETWEEN AID AID</b>	1. Project/Activity No.	PAGE <u>5</u> OF <u>7</u> PAGES
		2. Agreement No. <u>4</u>	3. <input type="checkbox"/> Original or Revised No. _____
	AN AGENCY OF THE GOVERNMENT OF	3. Project/Activity Title	

U.S. GOVERNMENT CONTRIBUTION

A. Summary

Subject to the annual availability of funds and mutually satisfactory progress toward objectives, this Project is scheduled to continue for approximately ten years. During this period USAID will provide the services of technicians, commodities, participant training, and specified other costs. This Project Agreement provides FY 1973 US funding for the second year of the project. Subject to the conditions specified above, subsequent funding will be added by annual supplements to this Project Agreement.

Under Project Agreement 72-6, \$250,000 was provided to initiate a contract for agricultural research, \$248,000 for services and \$2000 for supplies. Under this Agreement, \$140,000 augments that original amount in order to facilitate an 18-month \$390,000 contract. Of this, \$252,000 is budgetted for personnel and overhead, \$100,600 for contractor-procured commodities, \$28,000 for overseas training of Tanzanian researchers, and \$9,400 for travel and meetings.

B. U.S. FY 1973 Contributions \$ 192,000

1. Personnel Services (Contract) 4,000

Under Project Agreement 72-6, USAID provided \$248,000 for personnel costs of an agricultural research contract. This Agreement increases that amount to \$252,000 following evaluation of more precise estimates. These funds will pay salaries, allowances, benefits, and overhead for the first 18 months of services of four technicians in the following positions:

1. Agronomist/Project Manager
2. Maize Breeder
3. Grain Legume Breeder
4. Grain Legume Agronomist

Under funding provided in Project Agreement 72-6, USAID will contract as required for services of short-term consultants as well.

For the Cooperating Government or Agency  SIGNATURE: _____ DATE: _____ TITLE: _____	For the Agency for International Development  SIGNATURE: _____ DATE: _____ TITLE: _____
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AID 1530-1A (2-78)	PROJECT AGREEMENT BETWEEN AID AND THE TREASURY	1. Project/Activity No. 621-11-110-107	PAGE 6 OF 7 PAGES
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2. Participant Training (Direct AID) 28,000

These funds provide for the second year of training costs in the United States for four trainees whose first academic year was funded under Project Agreement 72-6.

Participant Training (Contract) 28,000

These funds provide for first-year academic and short-course training costs in the United States and third countries, and for international transportation, for Tanzanians to be trained for service under this project. Such training will be planned, implemented, and monitored by the contractor, subject to USAID and Ministry of Agriculture concurrence. USAID will finance additional years as required, subject to availability of funds.

3. Commodities (Contract) 98,600

These funds provide for procurement of special equipment, supplies, and seed shipments (total approx \$37,500), and farm machinery (total approx \$63,100), for the maize and grain legume activities under this project. Such procurement will be planned, implemented and monitored by the contractor, subject to USAID and Ministry of Agriculture concurrence.

4. Other Costs (Direct AID) 24,000

These funds (a) assist in defraying the cost of constructing and furnishing one Government Class A house as described in Section VII, "Special Provisions for Housing," of Project Agreement 72-6, at the Ilonga Research and Training Institute for use of the USAID-supplied personnel assigned there, and (b) provide supplemental costs necessary to assure completion of the three housing units described in the same Section VII.

Other Costs (Contract) 9,400

These funds provide the contractor with the resources to undertake, on behalf of his staff or Tanzanian research personnel in the project, in-country and international travel and attendance at conferences/meetings, of direct relevance to project objectives in maize and legume research, subject to USAID and Ministry of Agriculture concurrence. The purpose is to insure adequate coordination of Tanzanian research efforts with those of regional and international research organizations and with other foreign research.

For the Cooperating Government or Agency

For the Agency for International Development

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
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AID 1350-1A (3-70)  PRO AG CONTINUATION SHEET  ANNEX	PROJECT AGREEMENT BETWEEN AID AND THE TREASURY	1. Project/Activity No. 621-11-110-107	PAGE 7 OF 7 PAGES
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		3. Project/Activity Title Agricultural Research	

Other Costs (Contract) Cont.

For example, these funds may be utilized to send Tanzanian research personnel to observe and study the operation of appropriate research facilities; and/or to obtain shortterm services of technical research specialists to assist the Tanzanian Government on specific problems, or assist in evaluation of research results, as appropriate.

VI. GOVERNMENT OF TANZANIA CONTRIBUTION

A. Summary  
(Unchanged)

B. (Unchanged)

VII. SPECIAL PROVISIONS FOR HOUSING  
(Unchanged)

VIII. GENERAL PROVISIONS  
(Unchanged)

IX. STANDARD PROVISIONS  
(Unchanged)

For the Cooperating Government or Agency

For the Agency for International Development

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
TITLE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
TITLE: \_\_\_\_\_