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UNITED NATIONS INDUSTRIAL  
DEVELOPMENT ORGANIZATION

Distr.  
RESTRICTED

UNIDO/ITD.192/Rev.2

7 August 1974

ORIGINAL: ENGLISH

04820

UNITED NATIONS DEVELOPMENT PROGRAMME

Project of the Government of the  
UNITED REPUBLIC OF TANZANIA

ORGANIZATION AND OPERATION OF AGRICULTURAL MACHINERY AND  
EQUIPMENT REPAIR AND MAINTENANCE FACILITIES

PHASE II

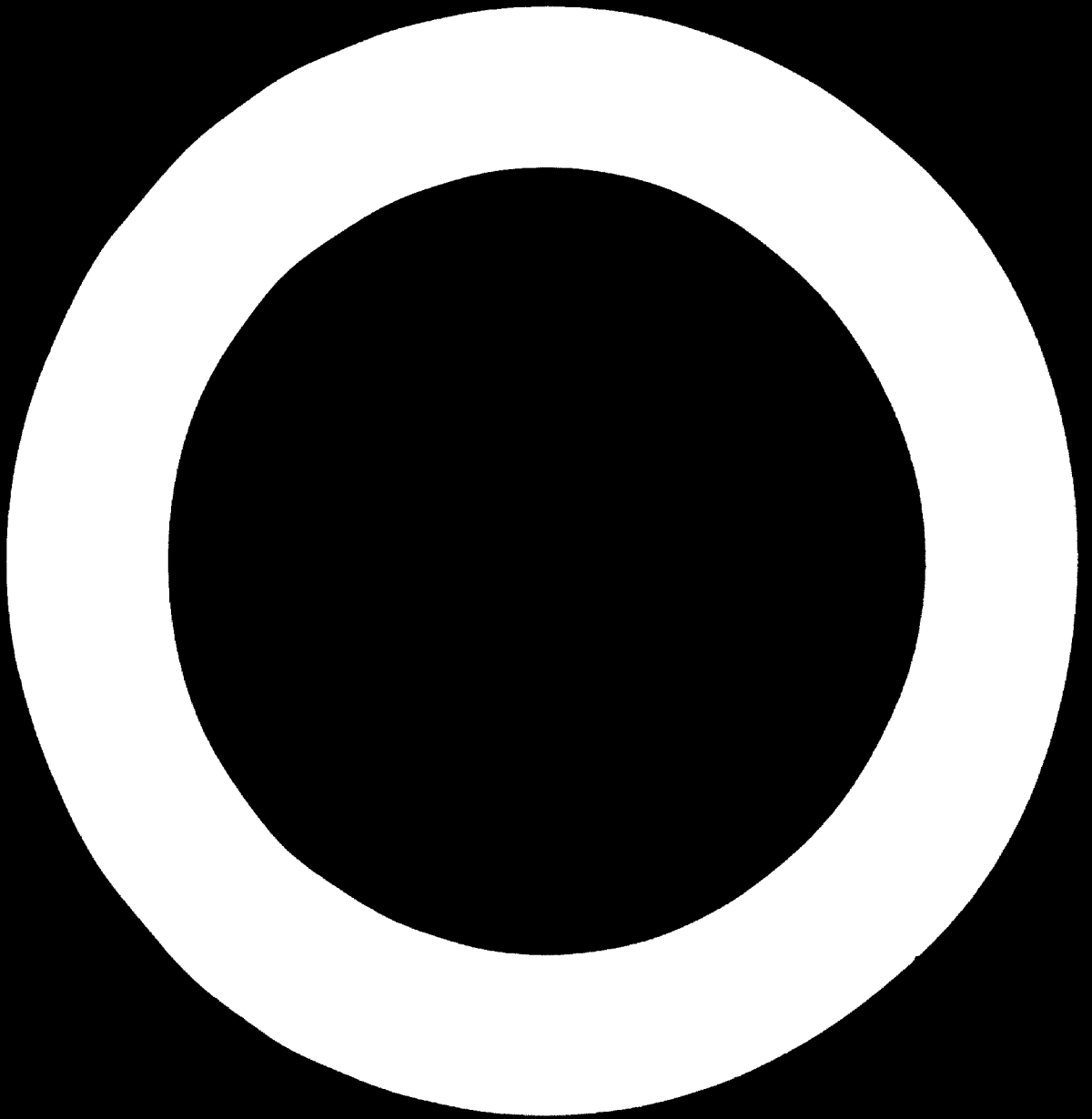
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**PROJECT DOCUMENT**  
**UNITED NATIONS DEVELOPMENT PROGRAMME**  
**Project of the Government of the**  
**UNITED REPUBLIC OF TANZANIA**

**Title:**      **Organisation and Operation of Agricultural Machinery and Equipment Repair and Maintenance Facilities, Phase II**

**Number:**      **URT/**

**Duration:**

**Sector:**      **Establishment and Extension of Industries**

**Sub-sector:** **Agricultural Repair and Maintenance**

**Government**  
**Co-operating**  
**Agency:**      **KILIMO**

**Executing Agency:** **United Nations**  
**Industrial Development**  
**Organization (UNIDO)**

**Date of**  
**submission:**

**Starting**  
**Date:**

**UNDP**  
**Contribution:**      **\$ 240,000**

**Government**  
**Contribution:**      **1,021,000 Tanzanian**  
**Shillings**

**Approved:**

\_\_\_\_\_  
**on behalf of the Government**

**Date:** \_\_\_\_\_

\_\_\_\_\_  
**on behalf of the Executing Agency**

**Date:** \_\_\_\_\_

\_\_\_\_\_  
**on behalf of the UNDP**

**Date:** \_\_\_\_\_

## I. BACKGROUND AND SUPPORTING INFORMATION

### A. Justification for the Project

In its development plans, the Government has placed emphasis on agricultural and rural development. The need has therefore become evident for the development of the agricultural machinery and implements sector. A UNIDO long-range programming mission visited the country during February and March 1970. The mission recommended that assistance be given in the organization and operation of maintenance and repair facilities for agricultural machinery and implements, in the form of two mobile workshops and two experts.

The two mobile workshops and equipment for stationary repair centres were subsequently approved under the UNIDO General Trust Fund as well as 12 m/m of expertise under the SIS programme (URT/71/804). The experts were fielded in late 1972 and early 1973. The mission of the experts is now completed and local counterparts have been trained in the continued use of the mobile workshops.

The duties of the two experts were:

- To acquaint themselves with the Government's present programme and plans for establishing facilities for maintenance and repair;
- To analyse the existing facilities available (Government operated workshops and facilities offered by dealers);
- To investigate the existing facilities for the manufacture of spare parts;
- To assist in formulating a programme for the effective utilisation of the two mobile workshop units and other stationary workshops;
- To assist in formulating and organising integrated maintenance and repair facilities;
- To recommend to the Government and to UNIDO the future line of action to realise the above programme.

With the assistance of experts the Government has formulated plans for establishing regional central workshops at Iringa and Dodoma. Approximately \$ 60,000 value of equipment has been ordered under UNIDO General Trust Fund Resources, for delivery in May of 1975. Expatriate expertise will be required at that time to assist in the installation and rational use of the equipment. To ensure rational use of various equipment and continued expansion and integration of the repair/maintenance activities into the Government's overall agricultural implements development programme, it will be desirable to provide continuing expertise for several years.

The activities of the mobile workshops and experts have been well received by local officials, and unofficial plans for procuring eighteen additional mobile units have been formulated. The experts have recommended somewhat less sophisticated mobile workshops for most of the regions. Consideration should be given to assistance in the design, procurement and assembly of these regional mobile units as a part of the phase II project activities of the stationary regional workshops.

The major repair activities encountered in the phase I programme have been in the area of welding, and often revising and strengthening implement parts to suit local conditions of operations. These represent traditional premanufacturing activities and should be reinforced in the phase II programme with a strong programme in the technical aspects of welding and welded designs especially as applied to local manufacture of spare parts.

Tanzania owns an estimated 7,000 tractors. Strong consideration should be given to maximising their usage through better management and perhaps consolidation, as well as improved maintenance systems. One possibility is a pilot demonstration tractor hiring scheme in conjunction with the Regional Workshop at Iringa (or Dodoma).

These activities lend themselves well to an integrated programme of agricultural and rural development and will help to provide the industrial infrastructure necessary for the introduction of intermediate technologies at the village level.

The proposed additional assistance is needed to allow the Regional Workshops at Iringa and Dodoma to rationally install and utilize additional equipment and provide the expanded services required for a rational agricultural, rural development programme.

#### Institutional framework

The project will be attached to KILIMO (Ministry of Agriculture and Co-operatives) and Regional Agricultural Development Offices at Iringa and Dodoma. KILIMO has the primary responsibility for coordinating repair activities and is represented throughout Tanzania with 18 regional offices and staff. Buildings to the extent of approximately 1,300 square meters are being made available for phase II activities.

The comments on the supporting personnel and facilities provided through phase I were adequate. The training of personnel was accomplished on schedule.

#### Provisions for Government follow-up

The Government has requested \$ 130,000 for a related project;

#### Integrated Production and Marketing of Agricultural Tools and Implements.

Its purpose is:

- 1) to increase Tanzanian self-reliance in design, production, marketing and maintenance of agricultural tools and implements;
- 2) to contribute to an increase in agricultural productivity and rural living standard through wide availability of more and better tools and implements on favorable terms. The primary function is that of planning for a broad based development and upgrading of rural technologies. Adequate, decentralized repair and maintenance facilities serve as a vital precursor to such planning and development, and the execution of the programme will generate continuing requirements for repair and maintenance services.

#### Other related activities

UNDP/UNIDO assistance is being provided on a continuing basis through the Industrial Studies and Development Centre, to 14 Government agencies. The project will ultimately result in the introduction of quantities of



new more sophisticated machinery and equipment. This will generate future requirements for expanded service activities in repair and maintenance. Close co-operation is proposed to maintain adequate repair facilities.

## II. OBJECTIVES OF THE PROJECT

This project is a service project supplementing the project described in Part II, Section (d) Industry, page 25 of the Country Programme of the United Republic of Tanzania, approved by the Governing Council in January 1972.

### Long-range objectives

The activities of the Industrial Studies and Development Centre are meant to stimulate the development and diversification of industry in the country. The major direction of these activities are agro-industrially based and decentralized. There is at present a large requirement for expanded and decentralised repair facilities. This requirement can be expected to expand rapidly in the wake of the related developments mentioned above. The manpower development aspects of this project are nearly identical to those required for the development of intermediate rural industrial technologies. It will therefore be advantageous to establish the service infrastructure well in advance of the intermediate industrial development.

### Immediate objectives

- 1) To supervise the installation of machinery and equipment at the regional workshops at Iringa and Dodoma;
- 2) To assist in start up of the two workshops and organise the backlog of repair requirements for the areas serviced;
- 3) To assist in the planning of an extension programme in repair and preventive maintenance, including preparation and dissemination of general repair manuals;
- 4) To assist in establishing better systems for stocking and delivering replacement parts for existing machinery and equipment;

- 5) To assist in training<sup>in the</sup>/fabrication and repair of simple parts using local resources, particularly the techniques of welded design and substitution;
- 6) Provide assistance in design, procurement and assembly/fabrication of repair units suitable for KILIMOS 18 districts in a manner as to conserve foreign exchange;
- 7) Assist in establishing a continuing training programme to assure that the objectives are reached and that future objectives can be met with local personnel.

No investment potential is foreseen for the project.

### III. WORK PLAN

#### A. Description of Project Activities

1. Installation of machinery and equipment at Iringa and Dodoma;
2. Organisation of a training programme (including fellowships);
3. Publication and dissemination of appropriate repair manuals;
4. Establishing repair parts inventories and depots;
5. Design and development of various repair workshop kits;
6. Procurement, assembly and disbursement of kits;
7. Design and development of a mobile training unit for assistance in local manufacture of implements and repair parts;
8. Organising a fellowship training programme in repair and maintenance.

#### B. Timing of Project Activities

The activities of this project are with the exception of 1 of continuous nature. They are also supplemental activities to other projects and will need to be responsive to their timing. It is advantageous to prepare the repair and maintenance infrastructure in advance of the other development activities.

Preparation of sites and buildings at Iringa and Dodoma were initiated during phase I of the programme. The preparation is scheduled for completion by the Government according to the plans prepared during phase I. The target date for completion is late 1974. The delivery of equipment is expected to be completed by June 1 1975, and project activities commence in May of 1975. The training of two counterparts abroad for six months each will be carried out in early 1976. A midterm UNIDO staff evaluation mission of two weeks will be carried out in 1976. Certain special activities will be organized in late 1976 by means of short term consultants. (An example would be a pilot tractor hiring station attached to Iringa.)

C. Description of UNDP inputs

1. Assignment of international staff

(a) Project Manager

The expert is expected to organize, supervise, co-ordinate and participate in the activities of both Iringa and Dodoma workshops. He will establish close working contacts with the various programmes in agro-industrial development. The particular duties include organization and supervision of the rational utilisation of repair and maintenance equipment at the two centers and the organization and guidance of the work of short term experts, consultants and associate experts. The post requires practical experience in management of small repair and/or light manufacturing workshops. He must be able to train local counterparts and set up appropriate book keeping, inventory controls and other systems. He should be skilled in welding techniques as applied to repair or light manufacturing. The duration of his assignment is 32 months beginning in May 1975.

(b) Associate experts

The associate experts will be expected to understudy the project manager and assist in all phases of his duties. The associate experts should have a degree or equivalent in Engineering (Mechanical, Industrial or Agricultural) and an interest in the problems of agro-industrial manufacturing development.

2. Provisions of sub-contractual services

The sub-contract services will be used to initiate and organise new programme activities requiring specific expertise not otherwise available locally. For example preparation of repair and maintenance bulletins; initiation of a pilot tractor hiring scheme. Four man-months of consultancy will be required. Consultants may be "borrowed" or extended from other local UNIDO projects. Consultancy will be scheduled during the project on an ad hoc basis.

3. Training Provisions

Two fellowships will be provided for three months each for training abroad. Pending the availability of suitable training courses the training will take place according to the schedule shown in the bar chart. The fellowship holders will be selected from the local staff of KILIMO. This will be supplemented with on the job training by the project manager, associate experts and consultants.

4. UNDP provided supplies and equipment (US\$)

Item	Cost	Delivery Date
(a) Copying machine (with spare parts)	1.500	May 1974
(b) Calculating machine (electrical printing, with spare parts)	500	-"
(c) Drafting equipment (including table, files and initial supplies)	700	-"
(d) Small blue print machine (initial paper and supplies)	300	-"
(e) Books and periodicals	1.500	-"
(f) Initial inventory of difficult to procure, repair parts for various machinery and equipment	1.500	-"
(g) Equipment for Central Workshop and sub-centres (See APPENDIX III)	47.500	-"

D. Description of Government Inputs

1. Prerequisites  
not applicable

2. Assignment of national staff

Initial training has been provided in operation of the mobile workshops during phase I. These men will be continued into phase II and augmented to a total of twelve full time counterpart trainees. The fellows will be selected from this group on the basis of performance.

3. Government-provided building, supplies and equipment

- (a) The project will be accommodated in KILIMO's premises in Iringa and Dodoma. Workshops of approximately 600 square meters will be made available for installation of equipment and use as repair centers.
- (b) The two mobile workshops and equipment will be integrated into the phase II programme.
- (c) The Government will loan, for the duration of the project, two tractors for use in the development of secondary mobile repair/demonstration units.
- (d) The Government will commit 35,000 ZS for local purchase or import of equipment and materials for assembling three prototype repair/demonstration mobile workshop trailers. It is estimated that the trailers to be used in conjunction with existing tractors could be assembled locally for approximately \$ 2,500 each. These would be functionally equivalent to the truck mounted units in use but less expensive and better suited to the repair requirements and terrain of the remote areas.
- (e) The Government will commit 100,000 ZS in operating funds for Iringa and Dodoma to be used for the replacement of 1) perishable tools 2) repair parts 3) raw material supply 4) electricity, water etc. 5) working capital and reserve fund. The above funds can be recovered through charges for services if desired by the Government.

Activity	1975				1976				1977							
	N	J	S	F	J	N	M	J	S	M	J	N	N	J	A	J
<b>I. Assignment of International Experts:</b>																
1. Project Manager																
2. Expert I																
3. Additional experts																
<b>II. Sub-contract Services:</b>																
1. Consultant					XX				XX				XX			
2. Staff review									X						X	
<b>III. Assignment of Counterparts:</b>																
1. 12 Counterparts																
<b>IV. Training Schedule:</b>																
1. 2 Fellowships - 6 m/m each									XXXXX							
<b>V. Delivery of Equipment (U'DP):</b>																
1. Equipment									X							
2. Supplies									X							
<b>VI. Availability of Government Inputs:</b>																
1. Buildings																
2. Reserve operating funds																
3. Development funds																
4. Mobile units																
5. 2 Tractors																

Country: United Republic of Tanzania  
 Project No.: URT/7 /  
 Title: Organization and Operation of Agricultural Machinery and  
 Equipment Repair and Maintenance Facilities - Phase II

Code	TOTAL a/m	1975 a/m	1976 a/m	1977 a/m
<b>10. PROJECT PERSONNEL</b>				
11 <b>Services</b>				
11-01 Project Manager	32 00,000	3 20,000	12 30,000	12 30,000
11-02 Expert	30 75,000	6 15,000	12 30,000	12 30,000
19 Component Total	62 155,000	14 35,000	24 60,000	24 60,000
<b>20. SUB-CONTRACTS</b>	22,500	7,500	15,000	
<b>30. TRAINING</b>	6,700		6,700	
<b>40. EQUIPMENT, RAW MATERIALS AND SUPPLIES</b>				
Expendable	4,500	3,000	1,500	
Non-expendable	49,000	49,000		
49 Component Total	53,500	52,000	1,500	
<b>50. MISCELLANEOUS</b>				
53 Services	800	300	900	
54 Duty travel (regional)	1,500	500	1,000	
59 Component Total	2,300	800	1,500	
<b>99 GRAND TOTAL</b>	240,000	95,300	84,700	60,000

BUDGET COVERING GOVERNMENT CONTRIBUTION  
(in Tanzanian Shillings)

Code	<u>TOTAL</u>		<u>1975</u>		<u>1976</u>		<u>1977</u>	
	m/m	T S	m/m	T S	m/m	T S	m/m	T S
<b>10. <u>COUNTERPART PERSONNEL</u></b>								
12	trainees	288	320,000	80,000	120,000	120,000		
	Support personnel	100	70,000	18,000	26,000	26,000		
19	Component Total	388	390,000	98,000	146,000	146,000		
<b>40. <u>EQUIPMENT</u></b>								
41	Expendable equipment		60,000	40,000	60,000	60,000		
42	Non-expendable equipment (includes tractors)		75,000	30,000	45,000			
43	Premises (1,000 sq. meters @ 300 TS per sq. meter)		300,000	300,000				
49	Component Total		535,000	370,000	105,000	60,000		
<b>50. <u>MISCELLANEOUS</u></b>								
51	Operation and maintenance of vehicles and equipment		50,000	10,000	20,000	20,000		
53	Travel expenses		30,000	10,000	10,000	10,000		
	Sundry		16,000	4,000	6,000	6,000		
59	Component Total		96,000	24,000	36,000	36,000		
99	<u>GRAND TOTAL</u>		1,021,000	492,000	287,000	242,000		



BUDGET COVERING EQUIPMENT CONTRIBUTION (additional)\*  
from UNIDO/OTF

<u>Code</u>		<u>TOTAL</u>	<u>1975</u>
40.	<u>MACHINERY AND EQUIPMENT</u>		
41	Expendable	10,000	10,000
42	Non-expendable	68,000	68,000
49	<u>GRAND TOTAL</u>	78,000	78,000

\* \$ 23,000 was delivered in 1971 and will be transferred to Phase II in 1974.

#### IV. ORGANIZATION OF THE PROJECT

##### General responsibilities

The Government, the UNDP and the Executing Agency shall jointly be responsible for the execution of the project and the realization of its objectives as described in Part II of this Project Document.

The Government shall provide to the project the national project personnel, training facilities, land, buildings, equipment and other required services and facilities. It will designate the Government Co-operating Agency named in the cover page of this document, which will hereinafter be referred to as the "Co-operating Agency" and which will be directly responsible for the implementation of the Government contribution to the project.

The UNDP undertakes to complement and supplement the Government participation and will provide through the Executing Agency the required expert services, training, equipment and other services within the funds available to the project.

Upon commencement of the project the Executing Agency may be requested to assume primary responsibility for project execution. However, that primary responsibility shall be exercised in consultation and in agreement with the Co-operating Agency. Arrangements to this effect shall be stipulated in the project Work Plan as well as for the transfer of this responsibility to the Government or to an entity designated by the Government during the execution of the project.

Part of the Government's participation may take the form of a cash contribution to UNDP. In such cases, the Executing Agency will provide the related services and facilities and will account annually to the UNDP and to the Government for the expenditure incurred.

##### Participation of the Government

The Government shall provide to the project the services, equipment and facilities in the quantities and at the times specified in the Work Plan. Budgetary provision - either in kind or in cash - for the Government's participation so specified shall be set forth in the Project Budgets.

The Co-operating Agency shall in consultation with the Executing Agency assign a director for the project on a full-time basis. He shall carry out such responsibilities in the project as are assigned to him by the Co-operating Agency.

The estimated cost of items included in the Government contribution, as detailed in the Project Budget, shall be based on the best information available at the time of drafting this project proposal. It is understood that price fluctuations during the period of execution of the project may necessitate an adjustment of said contribution in monetary terms; the latter shall at all time be determined by the value of the services, equipment and facilities required for the proper execution of the project.

Within the given number of man-months of personnel services described in the Work Plan minor adjustments of individual assignments of project personnel provided by the Government may be made by the Government in consultation with the Executing Agency, if this is found to be in the best interests of the project.

The Government shall continue to pay the local salaries and appropriate allowances of national project personnel during the period of their absence from the project while on UNEP fellowships.

The Government shall defray any customs duties and other charges related to the clearance of project equipment, its transportation, handling, storage and related expenses within the country. It shall be responsible for safe custody of the equipment, its installation and maintenance, insurance, and replacement if necessary, after delivery to the project site.

The Government shall make available to the project - subject to existing security provisions - any published and unpublished reports, maps, records and other data which are considered necessary to the implementation of the project.

The Government shall assist all project personnel in finding suitable housing accommodation at reasonable rents.

The services and facilities specified in the Work Plan which are to be provided to the project by the Government by means of a contribution in cash shall be set forth in the project Budget. Payment of this amount

shall be made in local currency to the UNDP in accordance with the Schedule of Payments by the Government.

Payment of the above-mentioned contribution to the UNDP on or before the dates specified in the Schedule of Payments by the Government is a prerequisite to commencement or continuation of project operations.

Participation of the UNDP and of the Executing Agency

The UNDP shall provide to the project through the Executing Agency the services, equipment and facilities described in the Work Plan. Budgetary provision for the UNDP contribution as specified shall be set forth in the Project Budget.

The Executing Agency shall consult with the Government on the candidature of the Project Manager who, under the direction of the Executing Agency, will be responsible in the country for the Executing Agency's participation in the project. The Project Manager shall supervise the experts and other agency personnel assigned to the project, and the on-the-job training of national project personnel. He shall be responsible for the management of all equipment provided to the project from UNDP funds.

The Executing Agency, in consultation with the Government, shall assign international staff and other personnel to the project as specified in the Work Plan, select candidates for fellowships and determine standards for the training of national project personnel.

Fellowships shall be administered in accordance with the fellowships regulations of the Executing Agency.

The Executing Agency may, in agreement with the Government and UNDP, execute part or all of the project by subcontract. The selection of subcontractors shall be made, after consultation with the Government, in accordance with the Executing Agency's procedures.

All material, equipment and supplies which are purchased from UNDP resources will be used exclusively for the execution of the project, and will remain the property of the UNDP in whose name it will be held by the Executing Agency. Equipment supplied by the UNDP shall be marked with the insignia of the UNDP and of the Executing Agency.

Arrangements may be made, if necessary, for a temporary transfer of custody of equipment to local authorities during the lifetime of the project, without prejudice to the final transfer.

Prior to completion of UNDP assistance to the project, the Government, the UNDP and the Executing Agency shall consult as to the disposition of all project equipment provided by the UNDP. Title to such equipment shall normally be transferred to the Government, or to an entity nominated by the Government, when it is required for continued operation of the project or for activities following directly therefrom. The UNDP may, however, at its discretion, retain title to part or all of such equipment.

At an agreed time after the completion of UNDP assistance to the project, the Government and the UNDP, and if necessary the Executing Agency, shall review the activities continuing from or consequent upon the project with a view to evaluating its results.

#### Facilities, Privileges and Immunities

##### UNDP and Executing Agency personnel

In accordance with the Agreement concluded by UNDP and the Government concerning the provision of assistance, the personnel of UNDP and other United Nations organisations associated with the project, shall be accorded facilities, privileges and immunities specified in the said Agreement.

##### Subcontractors and their personnel

The Executing Agency's contractors and their personnel (except Government nationals employed locally) shall:

- a) Be immune from legal process in respect of all acts performed by them in their official capacity in the execution of the project;
- b) Be immune from national service obligations;
- c) Be immune together with their spouses and relatives dependent on them from immigration restrictions;
- d) Be accorded the privileges of bringing into the country reasonable amounts of foreign currency for the purposes of the project or for personal use of such personnel, and of withdrawing any such amounts brought into the country, or, in accordance with the relevant foreign exchange regulations, such amounts as may be earned therein by such personnel in the execution of the project;

- (e) Be accorded together with their spouses and relatives dependent on them the same repatriation facilities in the event of international crises as diplomatic envoys.

All personnel of the Executing Agency's contractors shall enjoy inviolability for all papers and documents relating to the project.

The Government shall either exempt from, or bear the cost of any taxes, duties, fees or levies which it may impose on any foreign firm or organization which may be retained by the Executing Agency and on the foreign personnel of any such firm or organization in respect of:

- (a) The salaries or wages earned by such personnel in the execution of the project;
- (b) Any equipment, materials and supplies brought into the country for the purposes of the project or which, after having been brought into the country, may be subsequently withdrawn therefrom;
- (c) Any substantial quantities of equipment, materials and supplies obtained locally for the execution of the project, such as, for example, petrol and spare parts for the operation and maintenance of equipment mentioned under (b) above, with the provision that the types and approximate quantities to be exempted and relevant procedures to be followed shall be agreed upon with the Government and, as appropriate, recorded in the Work Plan; and
- (d) As in the case of concessions currently granted to UNDP and Executing Agency's personnel, any property brought, including one privately owned automobile per employee, by the firm or organization or its personnel for their personal use or consumption or which after having been brought into the country, may subsequently be withdrawn therefrom upon departure of such personnel.

The privileges and immunities to which such firm or organization and its personnel may be entitled, referred to in the paragraphs above, may be waived by the Executing Agency where, in its opinion or in the opinion of the UNDP, the immunity would impede the course of justice and can be waived without prejudice to the successful completion of the project or to the interest of the UNDP or the Executing Agency.

The Executing Agency shall provide the Government through the Resident Representative with the list of personnel to whom the privileges and immunities enumerated above shall apply.

APPENDIX I

Summary of a Prototype Pilot Demonstration Tractor Hiring Station with  
Mobile and Stationary Workshop - Rufiji

This is an approved project of Government, to be financed with their own funds and to be used as a prototype for all the regions.

The Government will probably request both bi-lateral and U.D.P technical assistance in conjunction with the expanded programme. Copies of the complete document are available for information and restricted use.



APPENDIX II

Government Follow-Up

The Rufiji Agro-mechanisation Centre Project which was approved by the Government (Vote 43-4420) adequately illustrates the Government's determination and capability to follow-up the experience and technology developed during the phase I programme.

This programme contains no expatriate expert component. The intention being to share the expertise and training programmes at Dodoma and Iringa. Since tenders are being written, it is urgent that phase II of the programmes at Iringa and Dodoma be initiated as quickly as possible in order to assist the Rufiji project as well as set a prototype for other planned Agro-mechanisation Centres and Regional repair centres.

Copies of the Rufiji project planning document are attached to all UNDP copies for easy reference.

APPENDIX III

CENTRAL WORKSHOP

<u>Item</u>	<u>Number reqd.</u>	<u>Unit Price</u>	<u>Total Price</u>
<b><u>Machine Shop</u></b>			
Bench lathe with vertical mill and other accessories	1	3,000	3,000
Comprehensive machinists tools and metrology instruments	1 set	1,000	1,000
Bench grinders	2	150	300
Radial drill (1 m x 30 mm)	1	2,000	2,000
Electric generator 3 $\phi$ /25 KVA PTO driven	1	1,500	<u>1,500</u>
<b><u>Sub Total</u></b>			<u>7,800</u>
<b><u>Repair Section</u></b>			
Pole shoe screwdrivers kit	1	200	200
Master tool kit	1	750	750
Valve and seat grinding machine	1	1,500	1,500
Battery chargers	1	550	550
Injection nozzle test kit	2	200	400
Electrical testing kit	1	700	700
Hoist/block and tackle 3T	1	300	300
Hoist/block and tackle $\frac{1}{2}$ T	2	50	100
Vices	5	60	300
Stock and dies/bolt and pipe	2	200	400
Hand drill press	3	57	200
Tool kits (mechanics)	6	300	1,800
Jacks, tyre irons, foot pumps, pressure gauges etc.	-	-	700
Hydraulic system kits for popular tractors	4	625	<u>2,500</u>
<b><u>Sub Total</u></b>			<u>10,000</u>

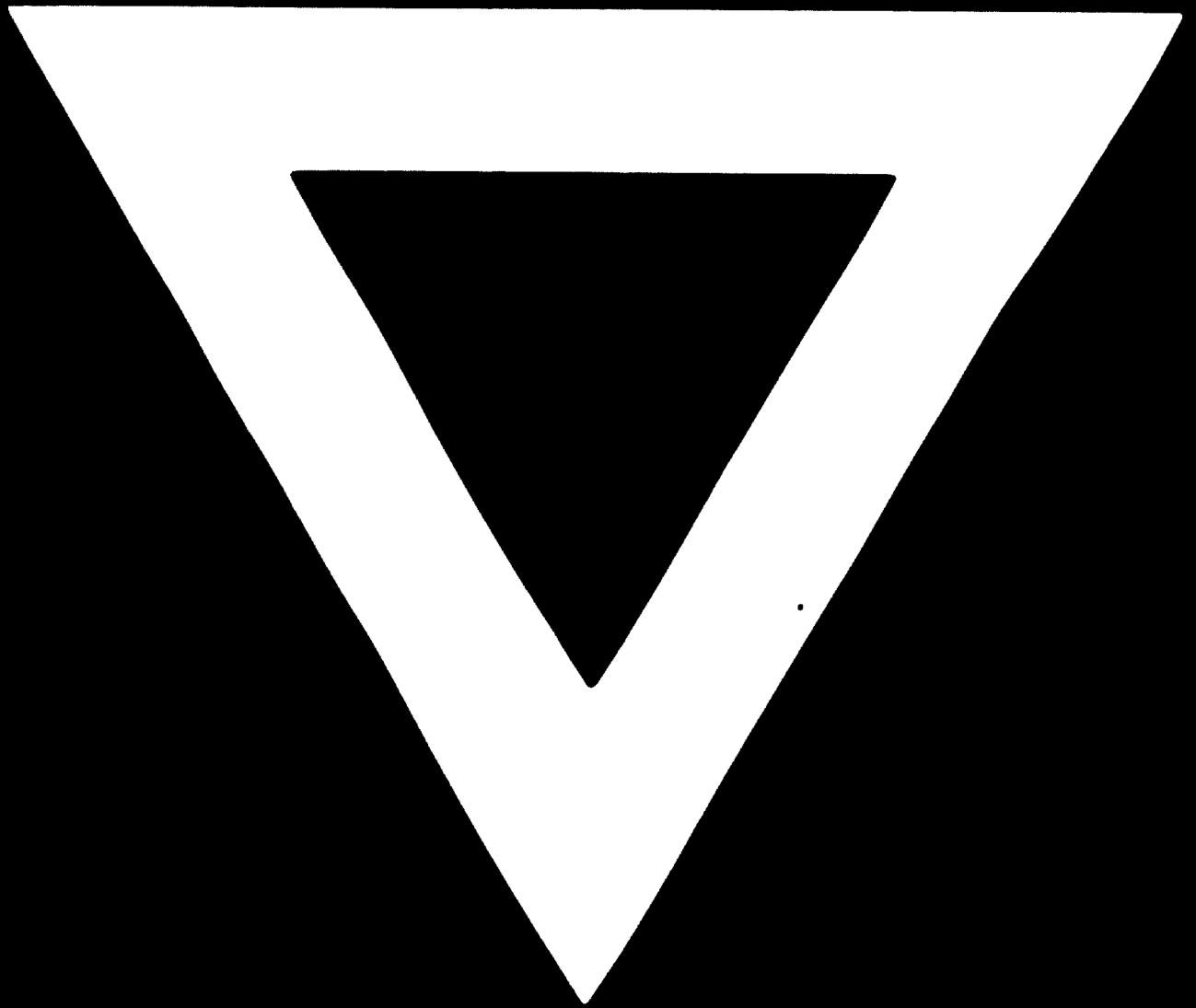
<u>Item</u>	<u>Number</u> <u>Reqd.</u>	<u>Unit Price</u> <u>\$</u>	<u>Total Price</u> <u>\$</u>
<b><u>Forge and Mold Shop</u></b>			
A.C. Welders 200A	2	150	300
Oxy-Acetylene sets	2	250	500
Anvil	1	100	100
Forge and tools	1	750	750
Electric hand tools including drills, grinder, saw etc.	1 set	750	750
Air compressor (portable) 20 H <sup>3</sup> /min	1	350	350
Hand shear for angle, round and flat	2	200	400
Spray gun	2	100	200
Hydraulic press 40T	1	1,500	<u>1,500</u>
			<u>4,950</u>
<b><u>Field Repair Sub-Station</u></b>			
Four wheel drive vehicle with PTO	1	6,000	6,000
Portable arc welders PTO with 280 V outlets	4	1,300	5,200
Oxy-Acetylene sets	3	300	900
Motor cycles with trailers	4	700	<u>2,800</u>
			<u>14,900</u>
<b><u>Flaming Trailer Machine</u></b>			
Running gear	1 set	1,850	1,850
PTO Generator 3 @ 25KW	1 set	1,500	1,500
Basic machine tools	1 set	2,000	<u>2,000</u>
			<u>4,750</u>
Contingencies including extra portable tools and spare parts during the first year.			<u>4,750</u>
			<u>4,750</u>
<b>GRAND TOTAL</b>			<b><u>67,500</u></b>

Notes

The foregoing list is partially a supplemental list of equipment representing types of equipment not available under UNIDO/GIF and duplicate equipment. Due to increases in cost, the equipment to be delivered under UNIDO/GIF will only equip about 1/3 central workshops.

The experts' recommendations and the Government's plans are for two central workshops. Moreover, the Government has been experimenting with a sub-centre programme and wishes to expand this programme in conjunction with the two central and mobile workshops.





**76.02.09**