

698-0407.22
Africa Regional

IRT Photovoltaic Energy
(Tanzania)

PRO Ag

FY81

LIMITED SCOPE GRANT AGREEMENT

Between

The United States of America, acting through the Agency for International Development (A.I.D.)

And

The University of Dar es Salaam (UDSM)

1. Project Title: Improved Rural Technology Photovoltaic Energy for Village Dispensary Refrigeration and Lighting	2. AID Project Number: 698-0407.22 Agreement No. 81-7
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The above named parties hereby mutually agree to carry out the Project described in this Agreement in accordance with the terms of this Agreement, including any annexes attached here n.

3. Amount of AID Grant \$ 32,000.00	4. Grantee Contribution \$ 14,000.00	5. Project Assistance Completion Date August 31, 1982
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6. This Agreement consists of this title page and
Annex A Project Description
Annex B Budget
Annex C Disbursement and Reporting
Annex D Special Provisions
Annex E Standard Provisions

7. For the Grantee:

Typed Name: N.A. Kuhanga

Signature: *N.A. Kuhanga*

Title: Vice Chancellor
UDSM

Date: 29.5.81

8. For the Agency for International Development:

Typed Name: Barry M. Riley

Signature: *Barry M. Riley*

Title: Acting Director
USAID/Tanzania

Date: 5/29/81

Appropriation No: 72-1111021.3
Allotment No: 143-60-621-0C-69-11
Project Number: 698-0407.22
Agreement No: 81-7

ANNEX A

PROJECT DESCRIPTION

Project Title: Improved Rural Technology
Photovoltaic Energy for Village Dispensary
Refrigeration and Lighting.

Project Number: 698-0407.22

The Improved Rural Technology (IRT) project provides financial support for small scale experimental activities which promote the development of appropriate technologies which will benefit the rural poor of Tanzania. A general objective of the IRT project is to support the effort of Tanzanian proposers who are able to give effective and measured support to a specific rural community in carrying out their rural technology development activities.

This particular activity proposes to install and test a photovoltaic power system for a village dispensary located at Mjawa, approximately 100 km south of Dar es Salaam. The system will drive a refrigerator and some fluorescent lights. The dispensary serves 10,000 people in this rural area. No alternative source of Energy is available there. Tanzanian staff and students will be trained by the implementation of the project. One Tanzanian University staff member will travel to the United States, to establish contacts with American Solar Energy Institutes and manufacturers of solar equipment, and to procure the necessary equipment.

Local manufactured subcomponents, like batteries, regulators, booster mirrors etc. will be evaluated. The system will be carefully tested at the Faculty of Engineering for about three months after which it will be installed at Mjawa dispensary. During the initial phase in the village, students will stay there for one month to make precise measurements and to train a local carpenter to maintain the system. Data will be continuously collected, both in the village and at the University over the life of the project.

ANNEX B

BUDGET

Within the financial limitations of the project the specifications and prices may be amended during the implementation of the activity due to technical improvements or additional quotations.

<u>ITEM</u>	<u>QUANTITY</u>	<u>PRICE (UNIT)</u>	<u>SOURCE</u>	<u>FREIGHT</u>	<u>ESTIMATED TOTAL (U.S. \$)</u>
Solar Modules, 2.5 A e.g. HE 60JG	10	850	U.S.	1,000	9,500
Voltage regulator	2	400	U.S.	130	930
8 Watt lights	15	45	U.S.	300	975
Refrigerator, approx. 100 ltr. e.g. Magna Cold	1	2950	U.S.	1,100	4,050
Recorder Esterline Ms 401C-14-103-12-05-06D-25D -28D	1	600	U.S.	180	780
Recorder paper rolls	6	15	U.S.	70	160
Power console	1	600	U.S.	180	780
Batteries, 30 Ah	12	100	U.S.	500	1,700
Portable Tester e.g. SG910 Solenergy	1	1985	U.S.	180	2,165
Procurement Service Experience Incorporated	7 percent of FAS value				70
Mr. Mvungi's visit to the U.S.A.	1	2200	941		2,200
Ticket Tanzania-U.S.A.	30	70			2,100
Per diem	1	400	U.S.		400
Ticket in U.S.A.					300
Sundries					800
Installation materials wires, fuses and switches			Local		840
Automotive batteries	6	140	Local		200
Aluminium sheets	10m ²	20	Local		4,050
Contingency					
				Total:	\$32,000

ANNEX C

DISBURSEMENT AND REPORTING

Upon the signing of this Agreement, AID will disburse all Grant Funds in the following external bank account of the University of Dar es Salaam:

The Chase Manhattan Bank N.A.
Chase Private Banking International
New York, New York 10022

Checking Account No. 949-1-135704

The Grantee will submit the detailed specifications for the equipment to be ordered in the U.S.A. and funded under the Grant, so that AID can initiate procurement through Experience Incorporated.

Once each year and within 60 days of the completion of the Project the proposer will submit a narrative report containing both a financial report and an evaluation of the Project activities.

ANNEX D

SPECIAL PROVISIONS

- A. The Grantor and the Grantee hereby agree that this project is to be fully executed by the Grantee and the Proposers, and that these Grant Funds are to be disbursed in U.S. Dollars in the external bank account of the University of Dar es Salaam as set forth in Annex C.
The Grantee accepts responsibility for the project execution as set forth in this Grant Agreement and annexes hereto.
- B. The budget for this project is set forth in Annex B.
- C. Except as AID may otherwise agree in writing, goods and services financed by AID for the project will have their source, origin or nationality in Tanzania or in countries included in AID Geographic Code 941
- D. This project will be completed and all funds expended no later than August 1982.