

UNIVERSITY OF MALAWI

THE POLYTECHNIC

ENGINEERING PROGRAM

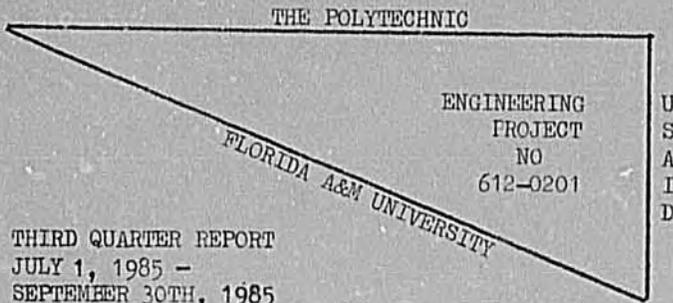
Technical Assistance Project

College of Engineering Science and Technology

FLORIDA A & M UNIVERSITY

The United States Agency for International Development

PD-AAS-090



THIRD QUARTER REPORT  
JULY 1, 1985 -  
SEPTEMBER 30TH, 1985

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UNIVERSITY OF MALAWI - THE POLYTECHNIC  
FAMU/USAID POLYTECHNIC PROJECT

The Polytechnic  
P/Bag 303  
Chichiri  
BLANTYRE 3

1st July, 1985

Mr. John F. Hicks  
USAID Representative  
NICO House  
P.O. Box 30453  
Capital City  
LILONGWE 3

Dear Mr. Hicks:

This third quarter Project Progress Report - July 1, 1985 through September 30, 1985 - reflects the activities of the FAMU/USAID Technical Assistance Team at the University of Malawi - The Polytechnic.

June through September is a period in which all regular scheduled University Academic activities cease. During this period Team Members who are normally involved in classroom instruction turn their attention more toward planning and evaluation. During the same period, most of the Industrial Counselor's normal activities are continued plus the addition of the Industrial Attachment Program Activities - visiting firms employing students for Industrial experiences.

The Second BI - Monthly Progress Report on FAMU/USAID Procurement dated 9/18/85, indicated that activities had virtually come to a stand still; awaiting a Bank Letter of Commitment (L/Comm) from Aid/Nairobi. Inquiries through Aid/Washington indicates that Aid/Nairobi is simply overloaded with work. Recently, The Director of International Programs informed COP that Nairobi had requested additional information, which he immediately sent. We expect activities to be stepped up very soon.

Therefore, except for the slow down in procurement activities, I am pleased to report that all other elements of FAMU/USAID Polytechnic Project are progressing in a timely manner.

Cont/...

Cont/

Mr. John F. Hicks  
USAID Representative  
LILONGWE

If additional information - on any aspect of this project - is desired, please feel free to request same.

Sincerely



VERNAL L. TAYLOR  
CHIEF OF PARTY & INDUSTRIAL COUNSELOR

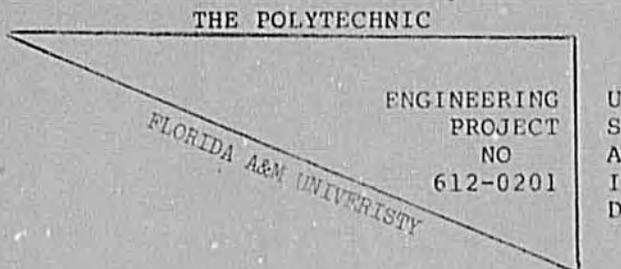
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THIRD QUARTER REPORT

JULY 1ST, 1985 - SEPTEMBER 30, 1985

CONTRACT NO AFR 021 C 00 3014 00

UNIVERSITY OF MALAWI ENGINEERING PROGRAM



COLLEGE OF ENGINEERING SCIENCE & TECHNOLOGY

FLORIDA A&M UNIVERSITY

THE UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT

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## I INTRODUCTION

Florida Agricultural and Mechanical University (FAMU) Technical Assistance Team has been assigned to the University of Malawi's Polytechnic to carry out an engineering project contract - agreement between FAMU and the United States Agency for International Development (USAID).

The objectives of the Technical Assistance services are to provide specialized expertise in engineering through classroom instruction and to assist the Principal and Department Chairmen of the Polytechnic in developing, reviewing assessing and, as necessary, modifying the Institute's existing curriculum.

The purpose of the Project is to improve and expand the institutional capability of the Polytechnic Institute to produce Malawian Engineering Manpower for Government, Industry and Private Sectors.

This is the Third Quarter Report, and it principally covers the period July 1st through September 30th, 1985.

## II HIGHLIGHTS

### Florida A&M University's New President

Dr. Fredrick Humpheries, former President of Tennessee A&I University has been appointed President of Florida A&M University (FAMU); where he completed undergraduate studies. While President at Tennessee, President Fredrick Humpheries demonstrated a strong interest for programs in International Development. In a recent meeting with the President, he expressed - to the Director of International Programs, the Chief of Party for Malawi Polytechnic Project, and the University Registrar for University of Malawi - his commitment to expand Florida A&M University's Programs in International Service.

Mr. James McCloud Joins Team - Assistant Professor James McCloud has replaced Professor Ernest Erickson as Electrical Engineer on the FAMU/USAID Polytechnic Technical Assistance Project. Professor McCloud's specialities are computers, mathematics and science; the areas in which he teaches at Florida A&M University. In May of this year Mr. McCloud served as Consultant to the Technical Assistance Team. He conducted lectures and demonstrations to both students and teachers, on microprocessors.

Mr. McCloud's presence and service on the team will definately enhance efforts on the part of the Polytechnic to utilize computers in instruction.

Technical Assistance Team Member Appointed Department Head -  
Dr. Ajit S. Gill, Professor of Civil Engineering has been appointed Department Head by the Polytechnic's Principal. This action adds another distinction to the service and performance of Professor Gill as a member of the Technical Assistance Team.

University of Malawi Registrar Visits Florida A&M University  
Mr. Robert Mbaya, Registrar for University of Malawi visited Florida A&M University during the month of August of this year. After attending a conference in California, Mr. Mbaya, began a tour which took him to University Campuses where Malawian studying under the USAID Polytechnic Project are seeking advance degrees in engineering or related fields. While on Campus Mr. Mbaya met relevant Deans, and the University's President, where very warm exchanges - covering International Programs - took place. Mr. Mbaya was also given a tour of the new \$6,000,000.00 Architecture facilities where Mr. Atlee Nkhonjera of the Polytechnic is studying for a masters degree. Florida A&M University was happy to have Mr. Mbaya visit.

FAMU's Director of International Programs to Visit Polytechnic - Dr. Peter Hartmann, Director of International Program, and Campus Co-ordinator for the Polytechnic Project is scheduled to visit the field middle of November 1985.

Much of his stay will be confined to preparation for project evaluation.

Polytechnic gets 130 Book Donation - Professor Ernest - Erickson former member of the FAMU/USAID Polytechnic Technical Assistance Team donated 130 electrical engineering books to the Polytechnic's library. The books have an estimated value of \$1,600.00.

In May of this year while on a consultancy visit, Mr. James McCloud - who is now replacing Professor Erickson - also donated several engineering books. It is likely that other team members will make donations prior to their final departure.

Polytechnic to get Twenty Eight IBM Computers Included on the list of equipment to be purchased by FAMU/USAID Procurement Contract are twenty eight computers. The purpose of the purchase is to enhance the educational program at the Polytechnic.

These systems (IBM PC XTDD) are the state of the art in microcomputers. They are setting the standards that other microcomputer manufacturers are trying to emulate.

The internal memory of these systems is much greater than that of any system currently available at the Polytechnic.

Furthermore, the microprocessor used in these systems and the rate at which Data is processed are superior to existing systems at the Polytechnic. The combination of these superior features will enable the students to write and execute more sophisticated programs and to use more advanced contemporary soft ware from suppliers.

Two of the twenty eight systems will be used as stand along systems for administrative purposes. The remaining twenty six will be connected in a PC network enabling the teacher of a class to communicate with any student individually or all students. Each of the computers in the network can operate as a stand alone system.

The addition of these microcomputers will do much to aid the Polytechnic in preparing graduates that will be more compatable with the needs of contemporary industry.

Three Digital (DEC) Rainbow 100 Computers have already been purchased under the FAMU/USAID Technical Assistance Project. These computers are being used primarily by Technical Assistance Team Member for engineering instruction, field accounting, student academic records, and for word processing.

### III TECHNICAL ASSISTANCE TEAM ACTIVITIES

During the period July 1, 1985 through September 30, 1985 there was no regular classroom instruction.

The following are the individual team member's descriptions of his activities during the third quarter:

Mr. Vernal L. Taylor, Industrial Counselor and Chief of Party.

Mr. J. L. McCloud, Associate Professor of Electrical Engineering.

Professor A. S. Gill, Professor of Civil Engineering.

Mr. C. J. Rigby, Associate Professor of Mechanical Engineering.

VERNAL L. TAYLOR - INDUSTRIAL COUNSELOR

As indicated in the following semi-log frame, the program for Industrial Counselling is well underway. Most major tasks have been completed and other components are progressing satisfactorily. Except for up-dates, the following is essentially the same as the second quarter's report.

REVIEW OF INDUSTRIAL COUNSELOR'S PROGRESS REPORT  
THIRD QUARTER - JULY 1ST, - SEPTEMBER 30TH, 1985

OUTPUTS	INDICATORS	ACTIVITIES
<p>1. Establish a guidance Counselling System which will help define where students should work when doing practical training.</p>	<ol style="list-style-type: none"> <li>1. Files on all engineering students on computer.</li> <li>2. File of all firms participating in Industrial Attachment Program.</li> <li>3. Student evaluation of Industrial work experiences on file.</li> <li>4. Industrial supervisor's evaluations of students work on file.</li> </ol>	<p>Operation of this system has been initiated. The student's academic and Industrial Attachment experiences are being filed on the computer. The second evaluation on the effectiveness of the Industrial Attachment Programs has just been completed - 1985 participants. The evaluation enables the Industrial Counselor to review comments by both the student and and his immediate supervisor as to how and what the student did while on Industrial Attachment. This information will be gathered on each group of student involved in Industrial Attachment experiences. The evaluations are passed on to relevant Department Heads and Dean of Engineering. Those unusual cases will warrant a follow-up conference by the Counsellor.</p>
<p>2. Established a records system capable of "Tracking" a student through the Polytechnic and monitoring the student's movement into the workforce or into post graduate work.</p>	<ol style="list-style-type: none"> <li>1. Computerized student record keeping system in operation.</li> <li>2. Mechanism's in place for maintaining up dated information on Industrial Attachment activities for each student.</li> </ol>	<p>This system has been completed. The system satisfies the output requirements as stated for both students and graduates. The system accomodates both engineering and non-engineering student. All student academic records are being computerized.</p>
<p>3. Service as Liason Officer between the Polytechnic and the users of its output.</p>	<ol style="list-style-type: none"> <li>1. Record of Industrial visits, and communication linkage with firms.</li> <li>2. Evaluative remarks and/or reports-achieved through surveys, on file.</li> </ol>	<p>Operation of this program has been initiated, as indicated in the past reports. It is an on-going process. Evaluative remarks received through means of the Training and Job Analysis Survey have been compiled, and typed for distribution to the Principal and those who are concerned with curricula development. The Industrial Counselor was on annual leave while Counterparts took full responsibility for all Industrial visits and collection of pertinent information from both students and their immediate supervisor.</p>

THIRD QUARTER - JULY 1ST - SEPTEMBER 30TH, 1985

OUTPUT	INDICATOR	ACTIVITIES
<p>4. Ensure that proper administrative action is taken to train a counterpart so that this staff position becomes a permanent.</p>	<ol style="list-style-type: none"><li>1. Name of counterpart of file.</li><li>2. Counterpart communication linkage established with Counselor.</li><li>3. Record of Counselor and counterparts visit to firms.</li><li>4. Record of scheduled meeting.</li></ol>	<p>Four faculty members of the Polytechnic have been assigned to counterpart with the Industrial Counselor instead of one. This arrangement should prove functional and provide the necessary continuity; however, this arrangement does not provide definitely for a permanent position for an Industrial Counselor as stipulated in contract. Mr. Chitani, could very well fulfill that requirement because of his heavy involvement in the Industrial Attachment Program.</p>
<p>5. Provide Industry - related Counselling to engineering students and others.</p>	<ol style="list-style-type: none"><li>1. Record of Counselor - Counselees conferences.</li><li>2. Record of communication with students (forms letters, etc)</li><li>3. Information bank established - feedback, and inputs students, graduates, and Industrial Personnel.</li></ol>	<p>This part of the counselor's assignment has begun. Most of the counseling has been to engineering graduates. The mechanics for providing this service is in place.</p>

THIRD QUARTER - JULY 1ST - SEPTEMBER 30TH, 1985

OUTPUT	INDICATOR	ACTIVITIES
<p>6. Establish and maintain contact with public, Governmental and Private Sectors entities utilizing engineers and assist in further development of an information bank which can be used to advise Polytechnic students and graduates of employment opportunities.</p>	<ol style="list-style-type: none"><li>1. Preview of firms manpower needs on file.</li><li>2. Copies of students applications for job on file.</li><li>3. Copies of students applications for Industrial Attachment experience.</li><li>4. Letters of inquires, and introduction on file</li></ol>	<p>Training and Job Analysis Survey Forms have been returned from firms, and the data has been compiled and analyzed. Follow-up conferences with firms contact persons have been initiated on a small scale.</p> <p>The Counselling department is taking on increased responsibilities for providing placement service to both graduates and Industrial Attachment students.</p> <p>Follow-up study on 1984, graduates engineer completed.</p>

PROGRESS REPORT  
4th - SEPTEMBER 30TH, 1985  
MR. J. L. McCLOUD

Because I have only been in position at the Polytechnic 4th - 30th September, reflections on my activities as a team member is short, however the following has been accomplished.

A. TEACHING ELECTRICAL ENGINEERING COURSES

I have received my teaching load for the first term of the 1985-86 academic year, which is as follows:

- i. D6 Electronics - Digital Electronics and Microprocessor component
- ii. D6 Computational methods - complete course
- iii. D6 Project - Romulator, IE, Multiprocessing

The Department Head of Electrical Engineering has requested that I modify the Computational Methods course, which I am currently doing.

B. DEVELOPING ELECTRICAL ENGINEERING CURRICULUM

I have reviewed the recommendations for the proposed curricula of my predecessor and I have added comments of my own.

I have reviewed the proposed document "An Overview of the Current Engineering Diploma and Degree Programmes at the Polytechnic, and I have made Suggestions for Strengthening it Through Curriculum Revision" Comments we made on the body of that document and the Electrical Engineering component of it's appendix.

C. TRAINING TEACHING ASSISTANTS

I have not been assigned a counterpart as yet. This action should take place soon, because there are several individuals available who qualify.

D. OTHER

- i. Participated in discussion on 17th September, 1985 with AID Procurement Officers from Nairobi and Lilongwe on the FAMU/USAID Polytechnic Procurement Contract.
- ii. On October 1, 1985, I participated in a decision making - discussion with Representatives from Computer Sales and Services Ltd., as to feasibility of acquiring IBM PCs from local supplier verses US American supplier.

TO: Mr. V. L. Taylor, Chief of Party,  
FAMU/USAID Technical Project

FROM: Professor A. S. Gill,  
Technical Assistance Team Member *A.S. Gill*

SUBJECT: QUARTERLY PROGRESS REPORT FOR PERIOD  
JULY - SEPTEMBER, 1985

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This memorandum furnishes my Progress Report as a member of the FAMU/USAID Technical Assistance Team to the Polytechnic for the period indicated above.

#### 1.0 GENERAL

During the report period there was no regular classroom instruction. Consequently, the duties performed were other than actual teaching. These are detailed in the following sections.

Upon the departure of Dr. J. A. D. Balfour, Head, Department of Civil Engineering at expiry of his contract term I was appointed to this position for the academic year 1985 - 86. I took change of my new responsibilities on August 1, 1985.

#### 2.0 PROJECT OBJECTIVES AND PROGRESS

##### 2.1 Teach Assigned Courses

As indicated above, there was no regular classroom teaching

during the period under report. However, in the absence of two other instructors who had since left the Polytechnic upon expiry of their contract period, I had to arrange for all Supplementary Examinations in the Department of Civil Engineering, grade the scripts and pass on the results to the Dean of Engineering. This was done in the month of September.

On account of the administrative responsibilities of the Head of Department of Civil Engineering, I had to make recommendations to the Dean of Engineering for assignment of teaching responsibilities to faculty members of the Department. This task was rendered a bit difficult in view of the fact that seven faculty members from the Department left at the end of the 1984 - 85 academic year upon expiry of their contract terms and so far only three replacements have been arranged. In addition I had to arrange for a part time instructor in surveying from the Survey Department of the Government of Malawi.

## 2.2 Make Recommendations for Improving the Curricula for Diploma and Degree Programs

The major work during the period under report was finalization alongwith other team members of the draft report from the FAMU/USAID Team on the curricula of

engineering Diploma and Degree Programs at the Polytechnic. The report includes comments on the existing curricula and specific recommendations for improving the same.

### 2.3 In Service Training to Counterparts

My counterpart Mr. Chikoko was trained for assisting students in carrying out the most common laboratory tests in Soil Mechanics. The Department of Civil Engineering has a good technician who learns fast and carries out instructions faithfully.

TO: Mr. V. L. Taylor,  
Chief of Party

FROM: Mr. C. J. Rigby, Mechanical Engineer,  
FAMU/USAID Polytechnic Technical Assistance  
Team Member 

SUB: PROGRESS REPORT FOR THE PERIOD  
JULY 1 - SEPTEMBER 30, 1985

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A. Teaching in Classroom and Laboratory

This period corresponds to the break between academic years; because there were no teaching activities. Furthermore I was on annual leave between July 3 and August 7, 1985, and upon my return, the Chief of Party took annual leave; - the period for which he assigned me acting Chief of Party until his return late in September. My most pleasant task was in welcoming Mr. James McCloud back to Malawi as our new Technical Assistance Team Member for electrical engineering.

Instruction for the 1985/86 academic year began on September 30, 1985. My teaching program for this year includes:

1. D6/Process Engineering with Professor Harris.
2. D6/Solid Mechanics with Professor Harris and Mr. P. Taylor.

3. D3/Projects - 5 students will work on four projects that I recommended.
4. D2/Mechanical Science Laboratory with Mr. N. Ben.
5. T2 Mechanical Engineering Laboratory development.
6. D1/Mechanical Engineering Science.

B. Training Malawian Counterparts

Mr. Chiwawa, my main counterpart, has just recently gone on leave to the U.K to work on a Master of Science degree in mechanical engineering. I have on occasion interfaced with Mr. R. L. B. Chindebvu (department of electrical engineering) who is interested in using FORTRAN on the Rainbow 100 Computer.

I have made a request to the Head of the Mechanical Engineering Department in a letter dated October 1, 1985 for a Malawian staff member to be assigned to assist me in laboratory and software development. There is an urgent need for Malawian staff members to learn programming in BASIC and FORTRAN in the IBM operating system environment called DOS. We are ordering several IBM microcomputers in the present FAMU/USAID Polytechnic Procurement Contract.

C. Assist in Developing a Relevant Curriculum Basic to Obtaining a B.Sc. and M.A. degrees in Mechanical Engineering and:

D. Recommend Practical Changes in the Current Curriculum for the Diploma

During this reporting period, I continued working with the Technical Assistance Team Members to arrive at an updated draft of a suggested curriculum leading to a B.Sc. degree in mechanical engineering. In addition, I contributed to the development of syllabus for several courses in the areas of mechanical engineering, mathematics, and the sciences.

#### IV RECOMMENDATIONS

The following are recommendations believed necessary to help the Technical Assistance Team, and also to assist the total USAID Polytechnic Project more nearly realize the expected end results.

1. That a team of American Engineering Educators visit the Polytechnic for the purpose of consulting with Team Members, and reviewing the individual and collective progress of the team. Such a team would consist of active members of the American Society of Engineering Education (ASEE). Each area of engineering, - civil, mechanical, electrical, and Industrial Counselling would be represented. An estimated figure of \$22,000.00 should be adequate to provide for such a service.
2. That planning for the initial meeting of the Project's Advisory Council get underway. It has been proposed that the Council should hold its initial meeting in Malawi, and then follow-up with a second meeting in the U.S.A.
3. That plans begin for the mid-way-project evaluation. Because of the delayed, and modified staggering beginning dates for each segment of the project,

evaluation procedure as planned must have become more complicated.

4. That consideration be given to the possibility of a need to have some team members remain at the Polytechnic beyond the present June 16, 1986 deadline, or that provision be made for their return on a short term bases. The reasoning behind this suggestion arises from the fact that there is a very important need for Technical Assistance Team Members to contribute to the proper installation of much of the approximately \$750,000.00 worth of laboratories equipment that is being purchased under the FAMU/USAID Procurement Contract. This is especially true in the department of engineering. Critical to good instruction, and to the proper use of laboratory facilities is a dedicated and stable faculty. The Dean of engineering, Department Heads, and the majority of engineering teaching faculty are on short term contracts - two to four years. Since receiving initial inputs from the faculty to aid in selection of proper laboratory equipment, more than 20 of those who participated have already left the Polytechnic - including two Department Heads. More are schedule to leave at the close of this academic year. With this broading discontinuity, it is highly

improbable that adequate attention will be given the need to fully in-corporate the equipment properly into instruction; as a result, much equipment will be found stored away. The Technical Assistance Team played a very strong role in determining what the equipment list should contain. Laboratory instruction sheets centered around the new equipment must be developed and catalogued. Otherwise, one should not expect any reasonable degree of standardization in curriculum offering.

Special consideration must be given this concern.

V FIELD EXPENDITURES

## FIELD ACCOUNT BY CODE

CHECK #	DATE	VENDOR	ITEM	PURPOSE	AMOUNT K
* BUDGET CODE 1					
136740	25/07/85	MS. M. C. CHIBAMBO	MONTHLY PAY	PART TIME SECRETARY	295.40
136741	25/07/85	MS. S. KHAMISA	MONTHLY PAY	SECRETARY 8 WORK DAYS	109.16
136742	25/07/85	MR. G. MAWECHA	MONTHLY PAY	ASSISTING IN SURVEY FORMS	287.75
136752	05/08/85	MR. G. MAWECHA	PAY FOR FIVE WORKING DAYS HAS RESIGNED		87.30
136758	26/08/85	MS. M. C. CHIBAMBO	MONTHLY PAY	PART TIME SECRETARY	264.80
136767	27/09/85	MS. M. C. CHIBAMBO	PAY FOR TEN WORK DAYS PART TIME		186.14
136768	27/09/85	MS. KHAMISA	PAY FOR 12 WORK DAYS	SECRETARY	205.76
** SUBTOTAL **					1436.31

## FIELD ACCOUNT BY CODE

CHECK #	DATE	VENDOR	ITEM	PURPOSE	AMOUNT K
*BUDGET CODE 3					
136763	04/09/85	AIR MALAWI	MR McCLOUD	AIR TICKET FROM LL. TO BT.	71.00
136764	25/09/85	AIR MALAWI	MR. V. TAYLOR	AIR TICKET FROM LL. TO BT.	71.00
** SUBTOTAL **					142.00

## FIELD ACCOUNT BY CODE

CHECK #	DATE	VENDOR	ITEM	PURPOSE	AMOUNT K
* BUDGET CODE 5					
136732	02/07/85	AMI RENNIE PRESS	AIRFREIGHT	PERSONAL EFFECTS	33.50
136733	15/07/85	ESCOM	ELECTRICITY BILL	UTILITIES/ELECTRICITY	463.99
136734	15/07/85	BLANTYRE WATER BOARD	WATER BILL	UTILITIES/WATER	184.07
136736	16/07/85	AMI RENNIE PRESS			593.25
136739	24/07/85	PPS	STATIONARY	OFFICE SUPPLIES	24.38
136743	30/07/85	ELECTRICITY	ELECTRICITY BILL	UTILITIES/ELECTRICITY	542.76
136744	30/07/87	MALAWI POST OFFICE	TELEPHONE BILL	COMMUNICATION TO USA	895.65
136745	31/07/85	BLANTYRE WATER BOARD	WATER BILL	UTILITIES/WATER	212.10
136746	31/07/85	INSPECTOR OF TAXES	INCOME TAX	MS. KHAMISA & MR. MAHECHA	229.19
136751	05/08/85	CARPET & FURNISHING	CURTAINS	REPAIRING CURTAINS	263.60
136754	06/08/85	V. L. TAYLOR	PETTY CASH	WATCHMAN'S PAY	120.00
136756	07/08/85	AMI RENNIE PRESS	AIRFREIGHT	PERSONAL EFFECTS	548.22
136759	28/08/85	ESCOM	ELECTRICITY BILL	UTILITIES/ELECTRICITY	318.15
136760	28/08/85	BLANTYRE WATER BOARD	WATER BILL	UTILITIES/WATER	282.15
136761	28/08/85	MALAWI POST OFFICE	TELEPHONE BILL	OFFICE	52.65
136762	03/09/85	DESIGNATED SCHOOLS	SCHOOL FEES	MR. RIGBY'S SON	650.00
136769	29/09/85	AMERICAN EMBASSY	IMMUNIZATION	FOR TEAM MEMBERS	67.70
136770	30/09/85	MALAWI POST OFFICE	TELEPHONE BILL	COMMUNICATION TO USA	1811.10
** SUBTOTAL **					7292.46

FIED ACCOUNT BY CODE

CHECK #	DATE	VENDOR	ITEM	PURPOSE	AMOUNT K
* BUDGET CODE 7 136770	30/09/85	UNIVERSITY OF MALAWI	POLYTECHNIC	REIMBURSEMENT	3475.76
** SUBTOTAL **					3475.76

26

FIELD ACCOUNT BY CODE

CHECK #	DATE	VENDOR	ITEM	PURPOSE	AMOUNT K
* BUDGET CODE 8					
136735	16/07/85	MR. LAWRENCE KAMINYU	DRIVER	DRIVE TO LILONGHE	18.52
136748	02/08/85	MR. CHITANI	COUNTERPART	INDUSTRIAL ATTACHMENT	1200.00
136750	02/08/85	PROJECT CAR DRIVER		INDUSTRIAL ATTACHMENT	100.00
** SUBTOTAL **					1318.52
** TOTAL **					K13665.05

VI ACCOUNTING

	A	B	C	D	E	F	G	H	I
DATE	BAL. FORWARD (KWACHA)	DEPOSIT (US. \$)	EXCHANGE RATE (US. TO K)	GAIN IN (KWACHA)	TOTAL (A+B+D) (KWACHA)	LESS PAYMENT (KWACHA)	BAL (KWACHA)	EXPI CODE	CHEQUE NO.
02/07/85	2312.90	-	-	-	2312.90	33.50	2279.40	5	136732
15/07/85	2279.40	-	-	-	2279.40	463.99	1815.41	5	136733
15/07/85	1815.41	-	-	-	1815.41	184.07	1631.34	5	136734
16/07/85	1631.34	-	-	-	1631.34	18.52	1612.82	8	136735
16/07/85	1612.82	-	-	-	1612.82	593.25	1019.57	5	136736
24/07/85	1019.57	-	-	-	1019.57	24.38	995.19	5	136739
24/07/85	995.19	4202.15	.6032	2764.27	7961.61	35.28	7926.33		Bank Charges
24/07/85	7926.33	823.01	.6032	541.38	9290.72	9.46	9281.26		Bank Charges
25/07/85	9281.26	-	-	-	9281.26	295.40	8985.86	1	136740
25/07/85	8985.86	-	-	-	8985.86	109.16	8876.70	1	136741
25/07/85	8876.70	-	-	-	8877.70	287.75	8588.95	1	136742
30/07/85	8588.95	-	-	-	8588.95	542.76	8046.19	5	136743
30/07/85	8046.19	-	-	-	8046.19	895.65	7150.54	5	136744
31/07/85	7150.54	-	-	-	7150.54	212.10	6938.44	5	136745

FLORIDA A & M UNIVERSITY/USAID  
POLYTECHNIC PROJECT

*Kernal Taylor*  
CHIEF OF PARTY

CODE

- |                            |                                   |
|----------------------------|-----------------------------------|
| 1. Salaries                | 5. Other Direct Cost              |
| 2. Consultants             | 6. Equipment, Vehicle<br>Material |
| 3. Travel & Transportation | 7. Reimbursement                  |
| 4. Allowance               | 8. Per - Diem                     |

	A	B	C	D	E	F	G	H	I
DATE	BAL. FORWARD (KWACHA)	DEPOSIT (US. \$)	EXCHANGE RATE (US. TO K)	GAIN IN (KWACHA)	TOTAL (A+B+D) (KWACHA)	LESS PAYMENT (KWACHA)	BAL (KWACHA)	EXPI CODE	CHEQUE NO.
31/07/85	6938.44	-	-	-	6938.44	229.19	6709.25	5	136746
02/07/85	6709.25	-	-	-	6709.25	1200.00	5509.25	8	136748
02/07/85	5509.25	-	-	-	5509.25	100.00	5409.25	8	136750
05/07/85	5409.25	-	-	-	5409.25	263.60	5145.65	5	136751
05/07/85	5145.65	-	-	-	5145.65	87.30	5058.35	1	136752
05/07/85	5058.35	-	-	-	5058.35	120.00	4938.35	5	136754
07/07/85	4938.35	-	-	-	4938.35	548.22	4390.13	5	136756
26/8/85	4390.13	-	-	-	4390.13	264.80	4125.53	1	136758
28/08/85	4125.53	-	-	-	4125.53	318.15	3807.18	5	136759
28/08/85	3807.18	-	-	-	3807.18	282.15	3525.03	5	136760
28/08/85	3525.03	-	-	-	3525.03	52.65	3472.38	5	136761
03/09/85	3472.38	-	-	-	3472.38	650.00	2822.38	5	136762
04/09/85	2822.38	-	-	-	2822.38	71.00	2751.38	5	136763
25/09/85	2751.38	-	-	-	2751.38	71.00	2680.38	5	136764

FLORIDA A & M UNIVERSITY/USAID  
POLYTECHNIC PROJECT

*Vernon Taylor*  
CHIEF OF PARTY

CODE

- |                            |                                   |
|----------------------------|-----------------------------------|
| 1. Salaries                | 5. Other Direct Cost              |
| 2. Consultants             | 6. Equipment, Vehicle<br>Material |
| 3. Travel & Transportation | 7. Reimbursement                  |
| 4. Allowance               | 8. Per - Diem                     |

	A	B	C	D	E	F	G	H	I
DATE	BAL. FORWARD (KWACHA)	DEPOSIT (US. \$)	EXCHANGE RATE (US. TO K)	GAIN IN (KWACHA)	TOTAL (A+B+D) (KWACHA)	LESS PAYMENT (KWACHA)	BAL (KWACHA)	EXPI CODE	CHEQUE NO.
27/09/85	2680.38	-	-	-	2680.38	186.14	2494.24	5	136767
27/09/85	2494.24	-	-	-	2494.24	205.76	2288.48	5	136768
30/09/85	2288.48	5469.48	.5871	3846.61	11604.57	47.03	11557.54		Bank Charges
30/09/85	11557.54	792.88	.5880	555.55	12899.97	7.18	12892.79		Bank Charges
30/09/85	12892.79	-	-	-	12892.79	3475.76	9417.03	7	136770
30/09/85	9417.03	-	-	-	9417.03	1811.10	7605.93	5	13677

FLORIDA A & M UNIVERSITY/USAID  
POLYTECHNIC PROJECT

*Kennel Hoyle*

CHIEF OF PARTY

CODE

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|----------------------------|-----------------------------------|
| 1. Salaries                | 5. Other Direct Cost              |
| 2. Consultants             | 6. Equipment, Vehicle<br>Material |
| 3. Travel & Transportation | 7. Reimbursement                  |
| 4. Allowance               | 8. Per - Diem                     |