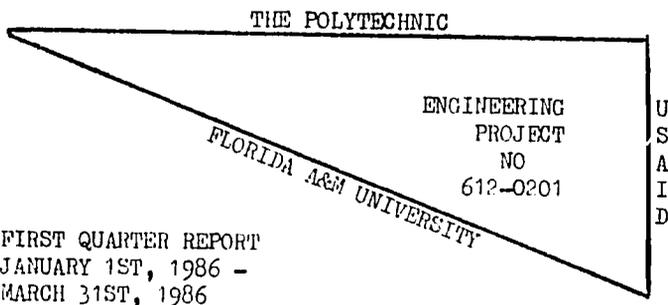


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53

CON-45212



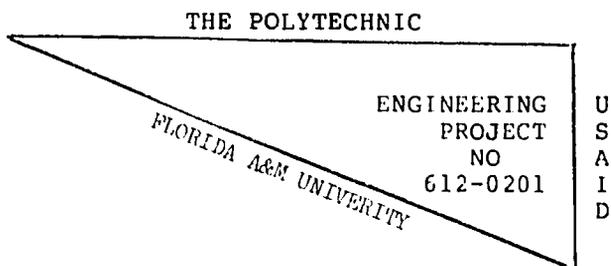
FIRST QUARTER REPORT
JANUARY 1ST, 1986 -
MARCH 31ST, 1986

FIRST QUARTER REPORT

JANUARY 1ST, 1986 - MARCH 31ST, 1986

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

UNIVERSITY OF MALAWI - THE POLYTECHNIC
FAMU/USAID POLYTECHNIC PROJECT

The Polytechnic
P/Bag 303
Chichiri
BLANTYRE 3

31st March, 1986

Mr. John F. Hicks
USAID Mission Director
NICO House
P. O. Box 30455
Capital City
LILONGWE 3

Dear Hicks:

This first quarter Project Progress Report - January 1, 1986 through March 31, 1986 - reflects the activities of FAMU/USAID Technical Assistance Team at the University of Malawi - The Polytechnic. This report also gives an update on FAMU/USAID procurement contract activities.

During the first quarter, team members continued with those first term classroom assignments. Professor Ajit Gill continued serving out his role as Department Head. The Industrial Career Counselor completed several pieces of material designed to better relations between Industry and the Polytechnic.

The Team met weekly - Fridays 1.30 - 3.00 pm to discuss, review and monitor progress on contractual assignments and procurement. Technical Assistance Activities have progressed in a timely manner; and from all indications, each item of the contract will have been satisfactorily acted upon by the end of this project's life.

Having had to adhere to USAID's strict advertisement requirement for procurement, activities in that area have been in a somewhat static state. According to Dr. Peter Hartmann, the 60 days wait is almost over, and the bids should be opened sometime between mid April and early May. Activities on local procurement of computers have progressed very well. Team Members gathered decision making data from two local vendors; the data was then

Cont/...2

Mr. John F. Hicks
USAID Mission Director
LILONGWE

passed on to The Polytechnic's official Computer Committee for discussions that should enable it to make the better selection.

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

Sincerely



Vernal I. Taylor
Chief of Party & Industrial Counselor

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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 First Quarter Report, and it principally covers the period January 1st through March 31st, 1986.

II HIGHLIGHTS

Regional Procurement Officer Visits Polytechnic

Mr. Bruce Stader, Regional Procurement Officer and Mr. Richard Day, USAID/Malawi Program Officer spent January 16, and 17 1986 at the Polytechnic in discussions and in an advisory capacity. Sessions were held with the Chief of Party, the Librarians, the Principal, and the building contractor for the new science and library buildings. Important procurement guidelines for buying, advertising, and shipping were discussed. Further, it was determined and clarified that FAMU has no obligation for procurement of Polytechnic's library facilities. The University Estate Officer in conjunction with the Polytechnic will take full responsibility. Amendment of the PSA contract to September 30, 1986 was drafted, signed by COP, the Program Officer, and then passed on to USAID/Malawi Representative. The request has since been approved.

Director of FAMU's International Programs Visits Project

Site - Dr. Peter Hartmann, Campus Coordinator Director of International Programs was in Malawi 24th February through 5th March 1986. Much was accomplished during his stay. While in the field he met with the Team, the Principal of the Polytechnic, USAID Program Officer and the Regional Procurement Officer. Some accomplishments realized during

his visit (1) development of a six month work plan for the Team - March 1, through August 31st, (2) submitted to the Principal and to USAID Malawi a proposal for extended USAID Technical Assistance service. A request for waiver on special audio-visual and camera equipment was approved by USAID. He provided assistance to Field Secretary on some computer related problems - he also completed final training to Field Secretary for several database programs and word processing.

Computers for The Polytechnic - As part of FAMU/USAID procurement contract twenty plus computers have been included on the list. At first - based on known local back up service etc - it was determined that a single source supplier would be utilized. Further investigations and findings led the Team to seek proposals from another local agent with comparable American made units. This appears to have been a positive step in that now vendors are considering educational discounts as are applicable to "Learning Institutions". Thus far one vendor has been awarded the discount. Chief of Party and Mr. James McCloud continue providing Polytechnic computer committee with decisions making data. Hopefully a decision will be made soon.

Extended Technical Assistance Proposed - Early in 1985 the the Team came to the realization that because of the very

large amount of engineering laboratory equipment being purchased through FAMU/USAID Procurement Contract - the Polytechnic should seek further Technical Assistance. The Team put together a list containing those instructional items which need special attention to assure the new laboratory equipment and computers are adequately interwoven into the engineering program. The Principal reacted favorably to the idea and during FAMU's Director of International Office field visit, a formal proposal was made to the Principal; he approved the basic concept and with his cover letter he passed the proposal on to USAID/Lilongwe.

Bids to Oper. Soon

According to FAMU's Director of International Programs bids for the list of Polytechnic commodities should open between mid April and early May. Thereafter, rapid progress is anticipated.

Two lists of items have been sent back to the field. One list contained those items for which the Polytechnic needs to supply additional specification data. The other list contains items for which a waiver is sought because no equivalent U.S. items made could be found.

III TECHNICAL ASSISTANCE TEAM ACTIVITIES

Collectively the team completed and distributed for inputs its suggested innovation in curriculum. When completed, the document will be turned over to the Principal.

The individual account of Team members activities during the first quarter follow:

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

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

Professor Ajit S. Gill, Professor of Civil Engineering.

Mr. Cornel J. Rigby, Assistant Professor of Mechanical Engineering.

VERNAL L. TAYLOR - INDUSTRIAL COUNSELLOR

As the contract approaches its terminating date, activities of the Industrial Counsellor - Chief of Party office have increased considerably. The workload increased to the extent that additional help had to be acquired. Increased activities in the position as Chief of Party resulted from the fact management of both Technical Assistance and Procurement Contract has to be carried on.

In the position - Industrial Career Counselor the following tasks were completed:

1. Completed first and second draft of an Industrial Attachment Student/Supervisor Hand Book.
2. Prepared and distributed a graduate survey form.
3. Completed and bound Industrial Survey on Engineering Manpower Needs.
4. Conducted Student Retention Drop out Study.
5. Conducted follow-up study on Job placement of Engineering graduates.
6. Prepared report on 1985 Industrial Attachment activities.
7. Provide counselling to both graduates and undergraduates.
8. Initiate change over in computer program for student

tracking system. Present student record system is run on database II system. The system is being updated to database III which is superior in several ways.

Although counterparting activities continue to be poor, the appointed counterpart was kept abreast with the above accomplishments. Prepared documents were always passed on to him for his input and evaluation. Mr. Grant Mawecha, a Polytechnic graduate engineer, Ms. Etta Benjala, both are rendering much service toward the Industrial Counselor's efforts.

REVIEW OF INDUSTRIAL COUNSELOR'S PROGRESS REPORT
FIRST QUARTER - JANUARY 1ST, - MARCH 31ST, 1986

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"> 1. Files on all engineering students on computer. 2. File of all firms participating in Industrial Attachment Program. 3. Student evaluation of Industrial work experiences on file. 4. Industrial supervisor's evaluations of students work on file. 5. Student-supervisor Hand Book prepared 	<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 students 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"> 1. Computerized student record keeping system in operation. 2. Mechanism's in place for maintaining up dated information on Industrial Attachment activities for each student. 	<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. The process is slow. Part time employment is necessary to complete the job.</p>
<p>3. Service as Liason Officer between the Polytechnic and the users of its output.</p>	<ol style="list-style-type: none"> 1. Record of Industrial visits, and communication linkage with firms. 2. Evaluative remarks and/or reports- achieved through surveys, on file. 	<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 are compiled, and typed for distribution to the Principal and those who are concerned with curricula development.</p>

FIRST QUARTER - JANUARY 1ST - MARCH 31ST, 1986

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">1. Name of counterpart of file.2. Counterpart communication linkage established with Counselor.3. Record of Counselor and counterparts visit to firms.4. Record of scheduled meeting.	<p>Mr. Frank Chitani, lecturer and Head of Automobile workshop was recently assigned as counterpart for the Industrial Career Counsellor's counterpart. Mr. Chitani had been working as counterpart along with three others for the past two years. Being a fulltime lecturer his time devoted to Counselling activities is very limited. Hopefully he will have been acquired enough knowledge to enable him to successfully carry on once the Counsellor departs.</p>
<p>5. Provide industry - related Counselling to engineering students and others.</p>	<ol style="list-style-type: none">1. Record of Counselor - Counselees conferences.2. Record of communication with students (forms letters, etc)3. Information bank established - feedback, and inputs students, graduates, and Industrial Personnel.	<p>This part of the counselor's assignment has begun. Most of the counselling has been to engineering graduates. The mechanics for providing this service is in place.</p>

FIRST QUARTER - JANUARY 1ST - MARCH 31ST, 1986

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">1. Preview of firms manpower needs on file.2. Copies of students applications for job on file.3. Copies of students applications for Industrial Attachment experience.4. Letters of inquires, and introduction on file	<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>

UNIVERSITY OF MALAWI - THE POLYTECHNIC
FAMU/USAID POLYTECHNIC PROJECT

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

FROM: James L. McCloud, Member FAMU/USAID
Technical Assistant Team *J. L. McCloud*

RE: FIRST QUARTER PROGRESS REPORT JANUARY 1ST - MARCH 31ST
1986

My activities for the first quarter of the calendar year 1986 are presented in this correspondence.

A. TEACHING ELECTRICAL ENGINEERING COURSES

The teaching responsibilities resumed on January 6, 1986 after a break for the Christmas vacation. The academic responsibilities remained the same. I retained the following courses and advisement for senior projects:

A. COURSES

- a. D6 Electronics
- b. D6 Computational methods

B. SENIOR PROJECTS

- a. Romulator
- b. A/D and D/A converters

My advises for the senior projects presented their projects and progress o their projects to othe Electrical Engineering faculty.

I wrote three additional laboratory experiments for D6 Electronics.

1. Microprocessor fundamentals
2. Programming the motorola 6800 microprocessor using index addressing.
3. Peripheral interface adapter (motorola 6821)

B. DEVELOPING ELECTRICAL ENGINEERING CURRICULUM

Presented the syllabus for D6 computational methods to electrical engineering faculty. The document was discussed and accepted for the current curricula. Participated in departmental meeting on electrical engineering curriculum. Presented proposal for incorporating microprocessors into curriculum.

Participated in discussion with the Dean of Engineering/Department Head of Electrical Engineering on the following topics:

- a. Computations at the Polytechnic
- b. Interfacing microprocessors to microcomputers
- c. Microprocessor training for engineers

C. TRAINING TEACHING ASSISTANTS

Held three sessions with C. Chipofya on the use of computers in electrical engineering instructions. Two sessions were held in room C05 in the civil engineering building on the DEC Rainbow 100. These sessions covered solutions of systems of linear equations using BASIC. The third session was held at my home on the Zenith 148 computer system. This session covered computer graphics using BASIC, and a discussion of the MS-DOS operating system.

Discussed local area networks and PC networks with R. Kacelenga on several occasions in the office. Further discussions were held with R. Kacelenga on 16 bit microprocessors and fifth generation computers and processors.

D. OTHER

Held seminar of February 26, 1986 for faculty and students. The topic was "Evolution of Computers".

Worked on procurement of electrical engineering component of equipment list.

Developed comparison of two computer configurations being considered for the Polytechnic.

UNIVERSITY OF MALAWI - THE POLYTECHNIC
FAMU/USAID POLYTECHNIC PROJECT

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

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

SUEJ: PROGRESS REPORT FOR THE PERIOD JANUARY 1 - MARCH 31,
1986

A. Teaching in Classroom and Laboratory

During this period I carried out the second term teaching schedule as shown below:

Monday:

1. D6/Solid mechanics. 2 hrs/week. Here I was assigned to team teach with two other lecturers.

Tuesday:

2. E3/Student Projects - 4 hrs/week. I continued to supervise the four projects listed below:

- (a) Computer Graphics (3-D1 M drawings).
- (b) Computer - Aided Design of a simple automobile suspension system.
- (c) Computer simulation of sun position at several sites in Malawi.
- (d) Calibration and Performance evaluation of the Heat Pump/Air Cooler apparatus at the Polytechnic.

3. D6/Process Engineering: 2 hrs/week

This course is shared with the Department Head for the second term. I taught the heat transfer component of this subject.

4. D2/Mechanical Science: 3hrs/week

I conducted the laboratory component of this course which I share with another lecturer.

B. Counterpart Training

During this period I spent several practice sessions with Mr. Ngwalo and/or Mr. Ben, in computer programming. Mr. Ben is interested in FORTRAN Programs while Mr. Ngwalo is working in BASIC.

C. Recommendations for Improvement of Degree and Diploma Curriculums

During this period the team met at weekly meeting called by the COP to discuss (among other topics) the completion of our joint document of Proposed Innovations for the

Engineering Curriculum. A draft of this document has been completed and several copies have been made for review.

UNIVERSITY OF MALAWI - THE POLYTECHNIC
FAMU/USAID POLYTECHNIC PROJECT

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

FROM: Professor A. S. Gill, FAMU/USAID
Polytechnic Project Technical Assistant
Team Member *A.S. Gill*

SUBJ: QUARTERLY REPORT FOR PERIOD JANUARY - MARCH, 1986

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

1.0 GENERAL

The period under report covered the 11 term of the current academic year during which instruction of the assigned courses demanded high priority alongwith other responsibilities entrusted to me as Head of the Department of Civil Engineering. The highlights of the activities are detailed below:

2.0 PROJECT OBJECTIVES AND PROGRESS

2.1 Teach Assigned Courses

Instruction was continued by me in respect of the assigned courses detailed in my last quarterly report, these being:

Geotechnics to D6C

Transportation to D6C

Geology to D5C

Vocational Studies to D3C

and supervision of two Technical Projects. One particular innovation worth mentioning was of the use of petrological microscope in the Geology course. This had been hampered previously due to non-availability of rock and rock-mineral slides in the Department. This time, slides were borrowed by me from the Department of Geological Survey Offices in Zomba and this provided a good opportunity to introduce the students to this important topic in identification of rocks and rock-minerals.

2.2 Activities as Head of Department Civil Engineering

The administrative responsibilities discharged by me were many and varied. Amongst others these included

- attending meetings of the Principal with the Heads of Departments.
- attending meetings of the Dean of Engineering with Head of Departments of Civil and Mechanical Engineering.

- calling meetings of the staff of the Department of Civil Engineering and chairing the same.
- setting up of a committee within the Department for proposing revisions to the current degree course offerings within the present six year general degree curriculum. Recommendations to this effect, after our deliberations, were made by me to the Dean.
- allocation of teaching assignments to the staff for the academic year 1986-87.
- made recommendations for acquisition of books and subscriptions to periodicals of interest for the Department of Civil Engineering.
- made recommendations for selection of new teaching faculty members for the Department.

2.3 Some other Tasks Carried Out

- As member of the University Research and Publications Committee, I attended a meeting of this committee at Bunda College in the month of March.
- Plans were finalized by some staff members, of the Department of Civil Engineering, to hold a Building Contractors Workshop open to the members of the public engaged in the construction industry. My counterpart Mr. M. Bizaliele was the co-ordinator.

2.4 Make Recommendations for Improving the Curricula for Diploma and Degree Programs

Mention was made in the last quarterly Report on finalization of a draft Report of the FAMU/USAID Technical Assistance Team. This was for a revised Diploma/five-year Degree Program.

As mentioned in section 2.2 above, a different set of recommendations for a six year degree program within the framework of the current general engineering degree were made by me on behalf of the Department of Civil Engineering.

2.5 In Service Training to Counterparts

My counterpart, Mr. M. M. Bizaliele, continues to show initiative and keenness in carrying out his assigned responsibilities. As mentioned above, he took the lead as co-ordinator of a proposed Building Contractors Workshop.

Furthermore, he secured a grant from the Polytechnic Teaching Methods committee for making an instructional model to study see-page in dams.

IV RECOMMENDATIONS

The Technical Assistance Team continues to push for USAID to provide additional High Level Technical Assistance to the Polytechnic. The Team is primarily concerned with the high probability that much of the new equipment will not be systematically and adequately interwoven into instruction. Reasoning behind this concern has been mentioned in several previous quarterly reports. Current instructional practices within departments have also strengthened the Team's position. There are several computers available, but there is no apparent evidence that engineering department heads have put forth efforts to incorporate them into their instruction programs. Since department heads and many of the other faculty have had little or no experience in preparing computer aided engineering instruction, it appears that a minimum qualification for the proposed New Technical Assistance Team Members would be that the individuals will have had extensive experience in that area. Civil Engineering has over \$3000.00 worth of computer software on the present FAMU/USAID Polytechnic procurement list.

The Team has concluded that the Polytechnic engineering department needs professional help - at the engineering educators level. It strongly recommends that USAID not

provide technical assistance only at the Technicians level as has been suggested by some of the present department heads. A technician may be used to install pieces of laboratory equipment, but he should not be expected to prepare engineering level instruction

FIELD ACCOUNTS

FIELD ACCOUNT BY CODE

CHECK #	DATE	VENDOR	ITEM	PURPOSE	AMOUNT K
* BUDGET CODE 1					
243321	03/01/86	MR. M M CHIMOYO	PREPARING RECORDS	FOR STUDENTS TRACKING SYSTEM	312.44
243328	24/01/86	MS. S. V. KHAMISA	SALARY	MONTHLY PAY	325.50
243329	27/01/86	MS. E. BENJALA	SALARY	ASST TO INDUSTRIAL COUNSELOR	114.64
243335	25/02/86	MS. S. V. KHAMISA	SALARY	MONTHLY PAY	325.50
243336	25/02/86	MR. GRANT MAWECHA	SALARY	MONTHLY PAY ASST INDUS COUNSELO	325.50
243337	25/02/86	MS. ETTA BENJALA	SALARY	MONTHLY PAY ASST INDUS COUNSEL	309.00
243348	12/03/86	MS. B. MSONDA	PROOF READING	FOR CURRICULA REPORT	32.00
243355	25/03/86	MS. E. BENJALA	SALARY	MONTHLY PAY ASST INDUS COUNSE	309.00
243356	25/03/86	MS. S. V. KHAMISA	SALARY	MONTHLY PAY SECRETARY	357.50
243357	25/03/86	MR. G. MAWECHA	SALARY	MONTHLY PAY ASST INDUS COUNSEL	325.50
** SUBTOTAL **					2736.58

FIELD ACCOUNT BY CODE

CHECK #	DATE	VENDOR	ITEM	PURPOSE	AMOUNT K
* BUDGET CODE 5					
243319	31/12/85	HATCHMAN	PAY	WEEKLY PAY K12/WK	120.00
243320	02/01/86	MALAWI POST OFFICE	TELEPHONE BILL	COMMUNICATION TO USA	555.20
243322	09/01/86	DHL INTERNATIONAL	DOCUMENTS	FOR DR. HARTMANN	35.00
243323	09/01/86	DESIGNATED SCHOOLS	FEES	MR. RIGBY'S SON	650.00
243324	10/01/86	V. L. TAYLOR	PETTY CASH	FOR OFFICE SUPPLIES & CAR	100.00
243325	14/01/86	MALAWI POST OFFICE	TELEPHONE BILL	COMMUNICATION OFFICE	260.25
243326	14/01/86	DHL INTERNATIONAL	DOCUMENTS	TO USA FAMU	66.00
243327	21/01/86	ESCOM	ELECTRICITY BILL	UTILITIES/ELECTRICITY	771.29
243330	29/01/86	GASKELLS OLIVETTI	TONER	FOR COPIA 100	53.00
243332	14/02/86	INSPECTOR OF TAXES	INCOME TAX	FOR FAMU/USAID PROJECT STAFF	194.07
243333	18/02/86	BLANTYRE WATER BOARD	WATER BILL	UTILITIES/WATER	130.87
243339	25/02/86	MALAWI POST OFFICE	TELEPHONE BILL	COMMUNICATION OFFICE	116.50
243340	25/02/86	MALAWI POST OFFICE	TELEPHONE BILL	COMMUNICATION TO FAMU	417.40
243342	25/02/86	ESCOM	ELECTRICITY BILLS	UTILITIES/ELECTRICITY	399.86
243343	25/02/86	BLANTYRE WATER BOARD	WATER BILL	UTILITIES/WATER	105.92
243345	06/03/86	J. S. KANABAR	FLASH LIGHTS BULBS	BATTERY FOR WATCHMAN	7.65
243346	08/03/86	AMI RENIE PRESS	STUDENTS RECORDS	SENT TO FAMU STUDENTS RECORDS	88.00
243347	11/03/86	GLENS REMOVAL (M4)LT	SHIPPING	DR. ERICKSON'S PERSONAL EFFECT	2325.97
243349	13/03/86	PPS	OFFICE SUPPLIES	ENVELOPES FOR OFFICE USE	25.08
243351	20/03/86	OLIVETTI	SERVICE CONTRACT	FOR COPIA 1000	337.00
243352	14/03/86	OLIVETTI	TONER	FOR COPIA 1000	53.00
243353	20/03/86	OLIVETTI	TONER	COPIA 1000	85.00
243354	24/03/86	PPS	OFFICE SUPPLIES	PAPER CLAMPS FOR CURRICULUM	7.20
243358	25/03/86	ESCOM	ELECTRICITY BILLS	UTILITIES/ELECTRICITY	373.21
243359	25/03/86	MALAWI POST OFFICE	TELEPHONE BILL	COMMUNICATION TO FAMU	358.75

FIELD ACCOUNT BY CODE

CHECK #	DATE	VENDOR	ITEM	PURPOSE	AMOUNT K
* BUDGET CODE 5					
243360	25/03/86	MALAWI POST OFFICE	TELEPHONE BILL	COMMUNICATION OFFICE	166.85
243361	25/03/86	BLANTYRE WATER BOARD	WATER BILLS	UTILITIES/WATER	146.61
** SUBTOTAL **					7949.68

FIELD ACCOUNT BY CODE

CHECK #	DATE	VENDOR	ITEM	PURPOSE	AMOUNT A
* BUDGET CODE 7					
243331	13/02/86	UNIVERSITY OF MALAWI	THE POLYTECHNIC	REIMBURESMENT FOR FUEL ETC	4703.74
243334	20/02/86	PROF. A. S. GILL	REIBURSEMENT	TELEPHONE TO FAMU	66.50
** SUBTOTAL **					4770.24

FIELD ACCOUNT BY CODE

CHECK #	DATE	VENDOR	ITEM	PURPOSE	AMOUNT K
* BUDGET CODE 8					
243338	25/02/86	SOCHE TOURS & TRAVEL	DR. HARTMANN & V L T	TRAVEL TO LILONGWE USAID MEETI	284.00
243344	05/03/86	SOCHE TOURS * TRAVEL	V. L. TAYLOR	MEETING WITH USAID OFFICIALS	142.00
** SUBTOTAL **					426.00
** TOTAL **					15882.50

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/ 1/86	2630.32	-	-	-	5630.32	555.20	5075.12	5	243320
03/ 1/86	5075.12	-	-	-	5075.12	312.44	4762.68	1	243321
09/ 1/86	4762.68	-	-	-	4762.68	35.00	4727.68	5	243322
09/ 1/86	4727.68	-	-	-	4727.68	650.00	4077.68	5	243323
10/ 1/86	4077.68	-	-	-	4077.68	100.00	3977.68	5	243324
14/ 1/86	3977.68	-	-	-	3977.68	260.25	3717.43	5	243325
14/ 1/86	3717.43	-	-	-	3717.43	66.00	3651.43	5	243326
21/ 1/86	3651.43	-	-	-	3651.43	771.29	2880.14	5	243327
24/ 1/86	2880.14	-	-	-	2880.14	325.50	2554.64	1	243328
27/ 1/86	2554.64	-	-	-	2554.64	114.64	2440.00	1	243329
29/ 1/86	2440.00	-	-	-	2440.00	53.00	2387.00	5	243330
06/ 2/86	2387.00	9106.06	.59	6312.26	17805.32	50.43	17754.89	-	Bank Charges
13/ 2/86	17754.89	-	-	-	17754.89	4703.74	13051.15	7	243331

Vernon Soyler

 CHIEF OF PARTY

CODE

- | | |
|----------------------------|-----------------------------------|
| 1. Salaries | 5. Other Direct Cost |
| 2. Consultants | 6. Equipment, Vehicle
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.
14/2/86	13051.15	-	-	-	13051.15	194.07	12857.08	5	243332
18/2/86	12857.08	-	-	-	12857.08	130.87	12726.21	5	243333
20/2/86	12726.21	-	-	-	12726.21	66.50	12659.71	7	243334
25/2/86	12659.71	-	-	-	12659.71	325.50	12334.21	1	243335
25/2/86	12334.21	-	-	-	12334.21	325.50	12008.71	1	243336
25/2/86	12008.71	-	-	-	12008.71	309.00	11699.71	1	243337
25/2/86	11699.71	-	-	-	11699.71	284.00	11415.71	8	243338
25/2/86	11415.71	-	-	-	11415.71	116.50	11299.21	5	243339
25/2/86	11299.21	-	-	-	11299.21	417.40	10881.81	5	243340
25/2/86	10881.81	-	-	-	10881.81	399.86	10481.95	5	243342
25/2/86	10481.95	-	-	-	10481.95	105.92	10376.03	5	243343
05/3/86	10376.03	-	-	-	10376.03	142.00	10234.03	8	243344
06/3/86	10234.03	-	-	-	10234.03	7.65	10226.38	5	243345
08/3/86	10226.38	-	-	-	10226.38	88.00	10138.38	5	243346

Vernal Maylor

 CHIEF OF PARTY

CODE

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|----------------------------|-----------------------------------|
| 1. Salaries | 5. Other Direct Cost |
| 2. Consultants | 6. Equipment, Vehicle
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.
11/3/86	10138.38	-	-	-	10138.38	2325.97	7812.41	5	243347
12/3/86	7812.41	-	-	-	7812.41	32.00	7780.41	1	243348
13/3/86	7780.41	-	-	-	7780.41	25.08	7755.33	5	243349
14/3/86	7755.33	-	-	-	7755.33	120.00	7635.33	5	243350
14/3/86	7635.33	-	-	-	7635.33	53.00	7582.33	5	243352
20/3/86	7582.33	-	-	-	7582.33	337.00	7245.33	5	243351
20/3/86	7245.33	-	-	-	7245.33	85.00	7160.33	5	243353
24/3/86	7160.13	-	-	-	7160.13	7.20	7153.13	5	243354
25/3/86	7153.13	-	-	-	7153.13	309.00	6844.13	1	243355
25/3/86	6844.13	-	-	-	6844.13	357.50	6486.63	1	243356
25/3/86	6486.63	-	-	-	6486.63	325.50	6161.13	1	243357
25/3/86	6161.13	-	-	-	6161.13	373.21	5787.92	5	243358
25/3/86	5787.92	-	-	-	5787.92	358.75	5429.17	5	243359
25/3/86	5429.17	-	-	-	5429.17	166.85	5262.32	5	243360
25/3/86	5262.32	-	-	-	5262.32	146.61	5115.71	5	243361

CODE

1. Salaries
2. Consultants
3. Travel & Transportation
4. Allowance

5. Other Direct Cost
6. Equipment, Vehicle Material
7. Reimbursement
8. Per - Diem

Vernel Taylor
 CHIEF OF PARTY