



UNIVERSIDADE EDUARDO MONDLANE
FACULDADE DE CIÊNCIAS
DEPARTAMENTO DE FÍSICA



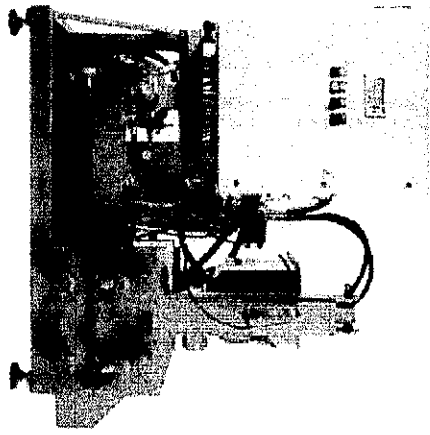
EASTERN AND SOUTHERN AFRICAN
MANAGEMENT INSTITUTE (ESAMI)



REPÚBLICA DE MOÇAMBIQUE
MINISTÉRIO DE ENERGIA



REPÚBLICA DE MOÇAMBIQUE
MINISTÉRIO DE CIÊNCIA E TECNOLOGIA



Course on

BIOMASS ENERGY TECHNOLOGIES

(6 - 24 August 2007)

FINAL REPORT

September, 2007

COURSE ON BIOMASS ENERGY TECHNOLOGIES

1. Introduction

The countries of the Southern African Development Community (SADC) region are facing severe and interrelated problems of energy and environment. Growing shortages of traditional fuels, such as wood, are due to increased population pressure on land, biomass and other limited resources. About 80% of the population in the SADC region depend on wood fuel for domestic use, and also many agro-processing industries require substantial amounts of wood. Resource depletion and environmental degradation impede rural development. The environmental impacts of new and intensified production processes aggravate the degradation of ecological systems. The solution to the shortages of rural energy represent a challenge which should be oriented to improve demand-side management and enhance the effectiveness and efficiency of energy use, in conjunction with the optimisation of fuel supply. Having these facts in mind the SADC energy Ministers have placed high priority on rural energy planning and also on strengthening of local institutional capabilities to plan, implement, monitor and evaluate wood fuel projects effectively. In support of this objective the Technical Administrative Unit (TAU) of the Energy Sector of the SADC community, based in Luanda, Angola, sought funding from the Netherlands Ministry of Foreign Affairs (DGIS) in order to support the design of a training programme aiming at introducing planners and managers to the concepts and skills required for an analysis of rural energy problems. The Eastern and Southern African Management Institute (ESAMI), based in Arusha, Tanzania, was contracted to undertake this activity, supported by the Technology and Development Group of the University of Twente (TDG-UT), from the Netherlands. As a result of the work carried out a core curriculum and a training programme comprising eleven separate courses in rural energy planning and environmental management was designed and its implementation started during the past decade. The aim of the courses within the programme is to introduce planners, managers and technical people to the concepts and skills required for analysis of rural energy problems, and to help them to produce effective solutions. The training is job-oriented. The methodology of the courses is based on an overall framework, which links the different planning elements in a systematic way. It shows that if rural energy planning and environmental management are to be effective, energy needs should be the starting point, and that they should be analysed within the context of the physical, social and economic environment found in rural areas. Local resources, appropriate energy technology systems, human resources and appropriate energy policies can then be identified. All courses are specifically designed to be used in the SADC countries. They address the particular rural energy and environmental problems of the SADC region. The courses fall into three broad distinct groups based

on their content: (i) technical courses (biomass energy technologies - 3 weeks -, solar energy technologies - 2 weeks -, wind energy technologies - 2 weeks -, energy technology assessment - 3 weeks); (ii) management courses (rural energy planning and environmental management - 3 weeks -, rural energy project planning and environmental management - 3 weeks -, social and agro-forestry for energy and environmental management - 2 weeks -, data survey methods and applications for energy planning and environmental management - 2 weeks -, gender analysis in energy planning and environmental management - 2 weeks) and (iii) communication courses (communication planning and mass awareness - 2 weeks -, training of trainers in rural energy planning and environmental management- 3 weeks). The target group for the courses are professionals working in the broad field of energy planning and environmental management, including agriculturalists, economists, foresters, engineers, planners and policy makers from government, non-governmental organisations (NGO's) and private sector.

Reference on general problems of energy and environment faced by the SADC countries was made above. Surveys carried out by different organisations indicate that lack of skilled manpower is a factor contributing to this problem. This course on **"Biomass Energy Technologies"** attempts to address these aspects by offering specialists in the region the opportunity to acquire skills which will increase their capacity for effective decision making in the fields of better use of biomass energy resources.

The target group for this specific course are technical professionals from the areas of engineering and natural sciences involved in implementing biomass rural energy projects from government, NGOs and the private sector. Participants should be qualified academically with a degree and should have several years of work experience in appropriate disciplines.

This course has been implemented in English language since the past decade by ESAMI and by Mananga Centre, from Swaziland. The Eduardo Mondlane University (EMU) has the responsibility to organise the course in Maputo in Portuguese in order to enable a full participation of the two Portuguese-speaking countries in the SADC region, namely Angola and Mozambique.

2. Contents of the Course

The course is arranged into five modules, which are linked together as explained in the course manual.

Module 1: Introduction to Biomass Energy Systems and Technologies;

Module 2: Resources of Biomass Energy;

Module 3: Conversion Systems of Biomass Energy;

Module 4: Planning of Biomass Energy Systems;

Module 5: Environmental Management.

3. Preparation of the Course

The preparation of the course comprised basically two activities: (i) the translation of the manual on "Biomass Energy Technologies" elaborated by ESAMI from English into Portuguese and (ii) the organisation of the training activity. Then an organising commission has been set up in order to prepare the training activity. The organising commission had the task to identify a suitable place for running the course, to identify and invite facilitators to give their inputs into the course and also to make the link with the national directorates of Angola and Mozambique in order to provide participants. It is to regret that despite all the efforts made, including the postponing the training course from April to August, it was not possible to get involvement of Angola. The Ministry of Energy in Mozambique, through the National Director of New and Renewable Energies made many contacts with Angola, through e-mail and telephone but without success.

4. Funding of the Course

The course was scheduled for 10 participants. Apart from the grant provided by DGIS, the Ministry of Science and Technology provided an additional funding for this training activity. This enabled the participation of two more people.

5. Participants

One important objective to be achieved in this training activity is a good involvement of female participants, as according to the traditional division of work they are responsible for providing fuel for domestic use. A target of 40% of participation of women was achieved.

The task of identifying participants was given to the National Directorate of New and Renewable Energies in Mozambique, which in its turn, contacted the National Directorate of Energy in the Ministry of Energy and Water in Angola. The training activity was scheduled initially to take part in April 2007. Due to the fact that Angola did not provide participants it was then postponed to August 2007. Even so Angola did not provide participants. This means that the training activity had to take part without participants from Angola. The National Director of New and renewable Energies himself sent many e-mail messages and made many phone calls to his

counterpart in Angola but without success. The final statistics of participation is presented in the tables below.

Table 1 – List of Participants

| Nr. | Name | Sex | Institution | Contact | E-mail |
|-----|---------------------|--------|-------------|----------------|------------------------------|
| 1 | Julieta Cuanda | Female | MICOA | +258 825287293 | julieta_cuanda@yahoo.com.br |
| 2 | João Cipriano | Male | MICOA | +258 827032440 | joocipriano@yahoo.com.br |
| 3 | Júlio Tshipo | Male | ME | +258 827247860 | jotshipho@yahoo.com.br |
| 4 | Isabel Natália João | Female | ME | +258 827318178 | ini@me.gov.mz |
| 5 | António Matsena | Male | ME | +258 827298491 | dipremaputo@tvcabo.co.mz |
| 6 | Inês Chalúfo | Female | ME | +258 823911850 | iec@me.gov.mz |
| 7 | Oswaldo Manso | Male | MA | +258 823032890 | omanso@yahoo.com.br |
| 8 | Argentina Cossa | Female | MA | +258 823212830 | argentinaacossa@hotmail.com |
| 9 | Antonio Uaissonne | Male | MCT | +258 822425530 | antonio.uaissonne@mct.gov.mz |
| 10 | Custódio Dimande | Male | MCT | +258 828995090 | custodio.dimande@mct.gov.mz |
| 11 | Sérgio Sangarote | Male | GED | +258 826195199 | sanganazie@yahoo.com.br |
| 12 | Rosa Chambisse | Female | MDN | +258 823999460 | rosaguambe@yahoo.com.br |

Table 2 – General Statistics of Participants

| | Number | Percentage |
|------------------------------|--------|------------|
| Total Number of Participants | 12 | 100.00% |
| Female | 05 | 41.67% |
| Male | 07 | 58.33% |

6. Facilitators and Speakers

In order to cover the different subject matters involved in the training activity, facilitators from different backgrounds had to be identified. The total number of facilitators and speakers was of 9, representing and/or originating from several institutions like the Faculty of Agronomy and Forestry Engineering, the Faculty of Engineering, the Faculty of Sciences, the Centre for Africa Studies, all at the Eduardo Mondlane University. Also a facilitator from the Ministry for Coordination of Environmental Affairs was used. The table below gives the list of the facilitators in terms.

Table 3 – List of Facilitators and Speakers

| Nr. | Facilitators / Speakers | Institution | Sex |
|-----|-------------------------|---------------------------------------|--------|
| 1 | Alberto Tsamba | UEM – Engineering | Male |
| 2 | Guilherme Banze | UEM - Engineering | Male |
| 3 | Almeida Sítioe | UEM – Agronomy & Forestry Engineering | Male |
| 4 | Mário Falcão | UEM – Agronomy & Forestry Engineering | Male |
| 5 | Andrade Egas | UEM – Agronomy & Forestry Engineering | Male |
| 6 | Isabel Casimiro | UEM – Centre for African Studies | Female |
| 7 | Boaventura Cuamba | UEM – Sciences | Male |
| 8 | Manuel Chenene | UEM – Sciences | Male |
| 9 | Felicidade Munguambe | Ministry for Environment | Female |

7. Course Evaluation

7.1 Evaluation by the Participants

The course was evaluated both by the participants and by the organizers. The participants were given evaluation forms, to be filled and surrendered anonymously, in order to guarantee freedom of expression. The forms were distributed at the end of every week for a weekly evaluation and at the end of the course for a final evaluation. Additionally a meeting was convened on the last day for the sole purpose of providing the participants an opportunity to frankly and openly make a few remarks about the course, which they did.

Both in the written evaluation as well as in the referred meeting the participants unanimously considered the course useful and well conducted. Some common and outstanding comments were made, which are presented below:

- The time was too short to deal with some of the interesting subjects in an appropriate and more fruitful manner;
- The presentations of the facilitators were generally good and very good;
- The manual and other supporting material were considered good, despite some limited problems to be corrected, like some faint and hardly visible pages and a few remaining misspelled words (already corrected);
- The group work sessions and respective presentations were positive and productive, with the merit of bringing the participants together and

strengthening the gained knowledge by means of interaction and practical exercise. The participants would like to have more group work sessions;

- The field trip was considered an excellent occasion to see on site some particular aspects learned during the sessions. Participants would generally like to have had at least one more field trip;
- Participants were keen to implement their knowledge as soon as possible and would like to take part in more courses on the same and related subjects;
- The lunch service was considered good by a substantial number of the participants, but could be improved.

7.2 Evaluation by the Organizers

The organizers agree with the critics and are grateful for the generally good appraisal. In addition to the above referred the organizers believe that there is room for improvement in the coming courses, especially but not only on administrative aspects. For that purpose the organizers held daily and weekly meetings during the course, where many annotations were made. The following comments summarize the evaluation of the organizers:

- The course was well conducted, with clearly visible improvements in comparison to courses held before;
- The level of the participants was good and appropriate, which helped to achieve the positive results;
- The participants were enthusiastically participative and quickly managed to mingle and form a strong collective;
- The facilitators were committed and had a professional approach, which was essential to the overall rating of the course;
- Some weaknesses in the organization, particularly on the catering were registered, which nevertheless did not affect the overall rating of the administrative setting;
- The organizers made effort in order to achieve a desirable gender balance. The organizers will try to at least keep a minimum desirable balance in coming occasions.

8. Budget

A detailed breakdown of the budget is attached to this report.

9. Conclusions and Recommendations

The purpose of the course was to provide the participants sufficient skills to deal with implementation of projects on biomass energy technologies.

The organizers believe that these courses should be repeated after a certain period of time in order to strengthen and update the skills of the participants.

In the opening ceremony the National Director of Research, Innovation and Technological Development in the Ministry of Science and Technology addressed the participants with welcoming speech, gratefully underlining the importance of the Portuguese courses in the SADC Training Programme.

The closing ceremony was also led by the National Director of Research, Innovation and Technological Development in the Ministry of Science and Technology, who praised the successful organization of the course and congratulated the participants by their performance and regretted the absence of Angolan participants in the course.

Maputo, September 2007

The Course Director



Saventura Changa Cuamba

Financial Report

FINANCIAL REPORT

TRAINING COURSE ON BIOMASS ENERGY TECHNOLOGIES

The table below shows the essential exercise of disbursements done in the preparation and implementation of the Course on Biomass Energy Technologies.

1. Costs are presented in USD. The disbursements made in MZMs are converted into USD with the exchange rates varying from MZM 25,50/USD to MZM26,00 /USD;
2. Many other costs were met, but are not included in the present report since they would fall beyond budget, both in terms of value as well as in context as per referred structure;
3. While we are mailing this electronic copy we are also mailing an hard version of the report, which includes all the supporting documents to the financial statement.

We are grateful in advance for any comments on the way we can improve the report.

Maputo, September 2007

The Administrative Director of the Course



Alberto Paiva Tamba

COURSE ON RURAL ENERGY PLANNING AND ENVIRONMENTAL MANAGEMENT
Budget Breakdown (column F) and Real Costs (column E)

| Activities | Real Costs | | Amount Available | Difference (F-E) |
|---|------------|------------------|------------------|------------------|
| | (MZM) | (USD) | (USD) | (USD) |
| 1. Costs with Students | | 14 170.8 | 23 018.2 | 8 847.4 |
| 1.1 Travel | | 0.0 | 8 983.0 | 8 983.0 |
| 1.1.1. Internal air Travel | | 0.0 | | |
| 1.2 Accommodation and Meals | | 13 610.4 | 13 473.3 | - 137.1 |
| 1.2.1. Accommodation at Hotel Ibis (5 people x 20 days) | | 5 941.8 | | |
| 1.2.2 Rent of the conference room | | 1 500.0 | | |
| 1.2.3 Dinner (5 people x USD 17,00 x 20 days) | | 1 700.0 | | |
| 1.2.4. Coffee and Lunch Services for 21 days | 115 067.5 | 4 468.6 | | |
| 1.3 Allowances for Field Visit | | 560.4 | 561.9 | 1.5 |
| 1.3.1. Catering Costs | 12 500.0 | 485.4 | | |
| 1.3.2. Preparation of the Visit | | 0.0 | | |
| 1.3.3. Fuel and Other Costs | | 75.0 | | |
| 4. Communication and Marketing Expenditures | | 673.3 | 673.3 | 0.0 |
| 4.1 Telecommunications -Telephone, Fax (through Faculty of Science) | | 336.6 | 336.6 | 0.0 |
| 4.2 Marketing - other expenses(through Faculty of Science) | | 336.6 | 336.6 | 0.0 |
| GRAND TOTAL | | 14,844.11 | 23,691.52 | 8,847.41 |

List of Invoices/Receipts of the Costs

| Nº | Invoice/Receipt | Description | Item of activities | Amount in MT | Exchange rate USD/MT | Amount in USD |
|--------------|---------------------|-------------------------------|--------------------|--------------|----------------------|------------------|
| 1 | Recibo nº 7054 | Hotel Ibis | 1.2.1 | | 1 | 5.941,84 |
| 2 | Recibo nº 82/DAF/07 | UEM - Faculdade de Engenharia | 1.2.2 | | 1 | 1.500,00 |
| 3 | Recibo nº 2140 | Hotel Ibis | 1.2.3 | | 1 | 1.700,00 |
| 4 | Recibo nº 0162 | Mimi Bolos | 1.2.4 | 61.205,50 | 25,75 | 2376,91 |
| 5 | Recibo nº 0235 | Mimi Bolos | 1.2.4 | 43.574,50 | 25,75 | 1692,21 |
| 6 | Recibo nº 1896 | Clube do Professor | 1.2.4 | 10.287,50 | 25,75 | 399,51 |
| 7 | Recibo nº 595 | SOGEREL | 1.3.1 | 12.500,00 | 25,75 | 485,44 |
| 8 | Recibo nº 19/DG/07 | UEM- Departamento de Geologia | 1.3.3 | | 1 | 50,00 |
| 9 | Recibo nº 20/DG/07 | UEM- Departamento de Geologia | 1.3.3 | | 1 | 25,00 |
| 10 | Recibo nº 29/FC/07 | UEM - Faculdade de Ciências | 4.1 | | 1 | 336,60 |
| 11 | Recibo nº 30/FC/07 | UEM - Faculdade de Ciências | 4.1 | | 1 | 336,60 |
| Total | | | | | | 14.844,11 |

CFL

1.2.1 ACOMODATION AT HOTEL IBIS

| Nº de Ordem | Tipo de Documento | Descrição | Valor em USD |
|-------------|-------------------|-------------------|--------------|
| 1 | Recibo nº 7054 | Hotel Ibis Maputo | 5.941,75 |

Hotel IBIS Maputo
Av. 25 de Setembro, 1743
Maputo, Moçambique
Tel: + 258 21 35 22 00
Fax: + 258 21 35 22 20



ACCOR

UEM
Faculdade de Ciências

Regime : Quarto e Pequeno Almoço

[illegible]

| | |
|-----------|------------|
| TOTAL MZM | 153,000.00 |
| USD | 25.75 |
| Total USD | 5,941.75 |

1.2.2 RENT OF THE CONFERENCE ROOM

| Nº de Ordem | Tipo de Documento | Descrição | Valor em USD |
|-------------|---------------------|-----------------------------|--------------|
| 2 | Recibo nº 82/RAF/07 | UEM-Faculdade de Engenharia | 1.500,00 |



UNIVERSIDADE EDUARDO MONDLANE

RECIBO N° 82/EF/07

NUIT: 500003545

Recebemos de LI. E. N. / F. C. / OF - ESAM

a quantia de

11.500.000,00

Proveniente de Pagamento da factura n° 33/EF/07 de

02. Outubro. 2007

Cheque nº 2701

de

Praga Maputo

LU.E.M. mod. - 330

Maputo,



1.2.3 DINNER

| Nº de Ordem | Tipo de Documento | Descrição | Valor em USD |
|-------------|-------------------|-------------------|--------------|
| 3 | Factura nº 2140 | Hotel Ibis Maputo | 1.700,00 |

Hotel Turismo, S.A.R.L.
Av. 25 de Setembro, 1743, Maputo,
Mozambique
Matriculada na Conservatória do
Registo Comercial sob o N.º: 13371
Capital Social: 500.000,00 USD
N.I.U.T.: 400073309



Hotel IBIS Maputo
Av. 25 de Setembro, 1743
Maputo, Moçambique
Tel: + 258 21 35 22 00
Fax: + 258 21 35 22 20

FACTURA n° 2140

UEM
Universida Eduardo Mondlane

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|-----------------|----------|
| Data de Entrada | 05.08.07 |
| Data de Partida | 25.08.07 |

Regime: Ráíðes

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| IVA | 247.01 |
| BASE | 1,452.99 |
| TAXA | 17% |

1.2.4 COFFEE AND LUNCH SERVICES

| Nº de Ordem | Tipo de Documento | Descrição | Valor em MT |
|-------------|-------------------|--------------------|-------------|
| 4 | Recibo n° 01620 | MIMI BOLOS | 61.205,00 |
| 5 | Recibo n° 0235 | MIMI BOLOS | 43.574,00 |
| 6 | Recibo n° 01896 | Clube do Professor | 10.287,50 |
| | TOTAL | | 115.67,50 |

MIMI BOLOS

Rua do Licenciado Coutinho, 91 R/C
Mairangalene "B" - Maputo
Fax: 21 41 95 95
NUT: 300 187 390

RECIBO N.º 0162

41.000,00 MTn

Recebemos do(s) Exmo(s) Sr(s) *Faculdade de Ciências*

a quantia de

Setenta e dois mil quinhentos e

centos e cinquenta e quatro escudos

proveniente de *serviço de catering (50% do valor)*

de que passamos o presente recibo.

Maputo, *20* de *Agosto* de 200*2*

☐ Cheque n.º

☒ Numerário

Tp. Aires e Lemos, Lda - Rua João Alberto, 123 R/C, Alto-Mais - Maputo
NUT: 40001054 - N.º MLC: 134MFC-71P/98

MIMI BOLOS

Confecção e Preenchimento de Bolos e Pastéis
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RECIBO N.º 0235

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Recebemos do(s) Exmo(s) Sr(s) Faculdade de Ciências

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proveniente de *Secoicos de cateina* *Alma para*

Maputo, 19 de Setembro de 2007

☐ Cheque n°

☒ Numeração

Tip. Artes e Letras, Ltda - Rua João Albasini, 123 R/C Alto-Maré - Marquês
NUT: 440010054 - N° Aut. 1504PF-TIP/98

MINI BOLSOS
Assinatura
Confecção e Pressão Social de Camisaria
Rua Licenciado Coutinho, 91 R-C
M A P U T O

V. DINHEIRO
At. = 1896

CLUBE DO PROFESSOR

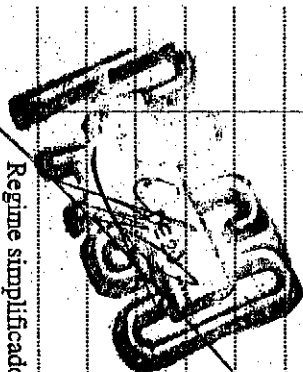
Av. P. Dr. José Antônio de Almeida - Nº 160

NUTR. 100762102 Telef. 21 486450

MAPUTO

24.8.07

Alf. 10.487,50



Regime simplificado

10.487,50

IMPENSA, CENTRAL
Rua Conselheiro Faria nº 85 - 1.º andar - 17º andar - 17º andar

1.3.1 CATERING COSTS

| Nº de Ordem | Tipo de Documento | Descrição | Valor em MT |
|-------------|-------------------|-----------|-------------|
| 7 | Recibo nº 595 | Sogerei | 12.500,00 |



Sociedade de Gestão de Refeições, Lda.
REGISTO (NUT) 400066604

RECIBO 200
#14.625.00 MT.

Recebemos do Exmo. Sr.

VE. M. / ES 471

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John R. Kimbrough & Associates

de que passamos o presente recibo.

30 de Junho de 2007



Sociedade de Gestão de Refeitórios, Lda.

Av. Romão Fernandes Farinha

Telef.: 082 30 16 78

Maputo

N.U.I.T: 400066604

Exmo.(s) Sr.(s)

U. S. 172

343

Morada

Not Done

Tel:

Fax:

N.U.I.T

MAPUTO

27 de ~~1999~~ de 2007

1

FACTURA

0191

[illegible]

☐ Dinheiro ☐ Cheque N°

Outros

GUIA DE REMESSA Nº REQUISICÃO Nº

REQUISIÇÃO Nºº

021-S-GuidBuhh Sddo: Sur Imões Bdy. Parcela 245 REGISTO (MULT) 300012182 LICENÇA Nº 010/MRF-TIP/02

1.3.3 FUEL AND OTHER COSTS

| Nº de Ordem | Tipo de Documento | Descrição | Valor em USD |
|-------------|---------------------|--------------------|--------------|
| 8 | Recibo n° 19/DG/07 | UEM-Dept° Geologia | 50,00 |
| 9 | Recibo n° 20//DG/07 | UEM-Dept° Geologia | 25,00 |
| | TOTAL | | 75,00 |



UNIVERSIDADE EDUARDO MONDLANE

RECIBO N.º 20100104



Recebemos do (s) Exmo. (s) Sr. (s) ESANI

a quantia de



Proveniente de Ausson da Violapora

Maputo



08 192004



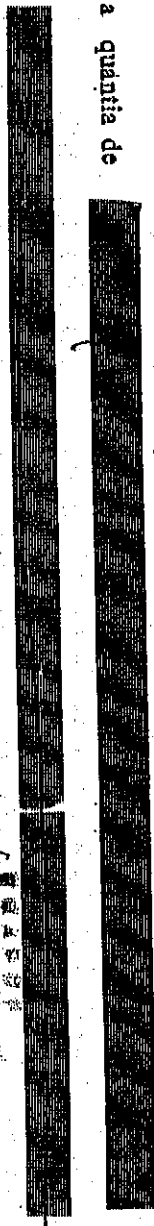
UNIVERSIDADE EDUARDO MONDLANE

RECIBO Nº. 15/26/04



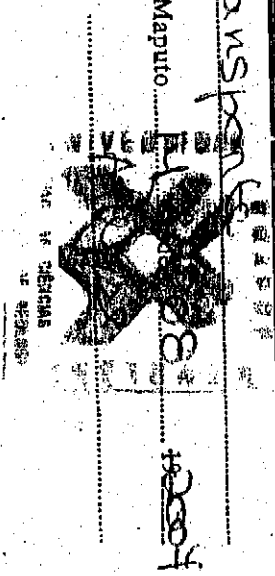
Recebemos do (s) Exmo. (s) Sr. (s) ESANI

a quantia de




Proveniente de Avusoa do Transporte

Maputo



4.1 TELECOMMUNICATIONS - TELEPHONE, FAX

| Nº de Ordem | Tipo de Documento | Descrição | Valor em USD |
|-------------|--------------------|---------------------------|--------------|
| 10 | Recibo nº 29/FC/07 | UEM-Faculdade de Ciências | 336,64 |

 UNIVERSIDADE EDUARDO MONDLANE
NÚM 500003541

RECIBO N.º 29/Fc/03

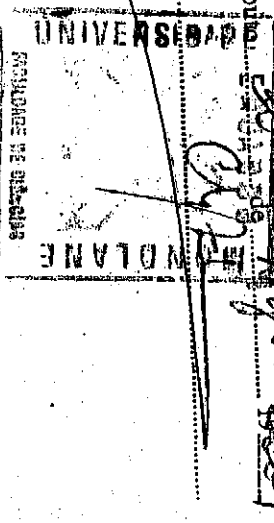
 453

Recebemos do (s) Exmo. (s) Sr. (s) ESAMI

a quantia de



Proveniente de Duplex Co Telefone, fax
Pago em moeda

Maputo, 29 de Maio de 2003
 UNIVERSIDADE EDUARDO MONDLANE
PROVINCIA DE BECHIMBO

4.2 MARKETING - OTHER EXPENSES

| Nº de Ordem | Tipo de Documento | Descrição | Valor em USD |
|-------------|--------------------|---------------------------|--------------|
| 11 | Recibo n° 30/FC/07 | UEM-Faculdade de Ciências | 336,64 |



UNIVERSIDADE EDUARDO MONDLANE

NÚT 50000 3545

RECIBO Nº. 30/Fc/03

MT

Recebemos do (s) Exmo. (s) Sr. (s)

ESARTU

a quantia de

[Redacted]

Proveniente de

Deposito em caixa de munição para o Curso

Pago em moeda MT

Maputo

30/12/03
UNIVERSIDADE EDUARDO MONDLANE
FACULDADE DE CIÊNCIAS