# Supply of Teaching Aid to Awassa College of Agriculture

Awassa, Ethiopia

A Report to NORAD

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Ås, November 1994

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# Acknowledgement

The team wishes to express its sincere gratitude to the leadership and staff of the Awassa College of Agriculture (ACA), particularly the Dean, the Assistant Deans, the Department Heads and the staff, for their thoughtful co-operation and assistance. We were received cordially with adequate preparation and planning given the short notice and limited resources they had at their disposal. The task involved detailed work and was time consuming. Thanks to their devotion, we managed to accomplish the terms and conditions set out in the Terms of Reference.

The institutional and private hospitality we enjoyed was incredible.

We are also very grateful to a number of individuals and institutions we visited outside the College. They were helpful and provided useful information and advice to facilitate the conduct of this consultancy.

It is our wish that the recommendations contained in this report would be accepted to meet the urgent needs and priorities. Through this constructive initiative, dedicated by NORAD, we hope that the spirit of partnership between ACA and NORAGRIC will grow to achieve the intended objectives.

# 1. Executive Summary

As a reflection of the emerging co-operation for development aid between the Government of Norway and the Government of Ethiopia, in the field of natural resource management, NORAD, in July 1994 proposed an assistance in the form of institution strengthening package to ACA. This College was assessed as having vital roles and responsibilities in the development of trained manpower required in agriculture and natural resource management but seriously constrained by lack of educational infrastructure, particularly teaching aid. This was broadly defined to include textbooks, reference books, audio-visual aid, library equipment and facilities, laboratory equipment as well as means of transport to facilitate practical training in the field. The total amount of the grant earmarked for this one shot deal is about NOK 1.5 million.

NORAD awarded a contract to NORAGRIC to implement the provisions of the grant. The specific objective of the consultancy was to produce lists of textbooks, reference books, basic teaching aid and library materials among other things. The details including the conditions of implementation were specified in the Terms of Reference (TOR) as

presented in Annex 8.1. The agreement signed between NORAD and NORAGRIC to this effect is presented as Annex 8.2.

NORAGRIC assigned three of its staff (Liv Ellingsen, Aregay Waktola, Carl Grennes and Henning C. Svads) as team members, the latter to act as project co-ordinator for the task. As per the agreement implementation of the Project started on 1 August, 1994. The initial tasks involved were:

- (a) communication with the colleges to secure facts and figures relevant for the work including syllabi and related background information,
- (b) gathering of current catalogues and information materials from potential suppliers of books and equipment, and
- (c) consultation with NORAGRIC staff and other relevant staff members at the Agricultural University of Norway (AUN). These were done before the departure of the team members to Ethiopia and Eritrea.

The team spent nearly 5 weeks to accomplish the mission in both countries (see Annex 8.3). The time spent in Awassa was about one week. The team was very impressed by the level of commitment and preparedness of the staff of ACA to receive the provisions of the grant. Discussions and selection of options were conducted in an atmosphere of mutual trust and understanding.

Obviously, there were more needs presented by each of the Departments reflecting their precarious situation. These had to be trimmed to comply with the proposed level of assistance. This was done by prioritising the needs at two levels, at College level, reflecting needs for common use, and at Departmental level, with emphasis on textbooks, reference books and some specialised equipment and materials. The rest were classified and listed as second priority items for possible consideration. It must be noted that particular attention was given accorded to the need for strengthening library services as part of the College level needs. Table 1 presents summary of the priorities proposed for immediate purchase and delivery within the time frame of the grant period as well as the estimates for the second priority items. Annex 8.7.1 presents the lists considered as first priority items while Annex 8.7.3 shows the lists of the second priority items.

**Table 1:** Summary of allocations by priority items

items	Amount for First Priority items in NOK	Amount for Second Priority items in NOK
1. Textbooks	524,310 (1613 vols)	
2. Reference books	162,530 (500 vols.)	
3.Lib. equipt. & supplies	110,000	
4. TM prep. equipt.	460,250	40,511
5. Audio-visual aid	37,650	
6. Lab. equipt. & supplies	414,000	42,549
7. Farm machinery	none	
8. Transport	none	
9. Contingency	62,490	4,153
10. Total	1,735,040	87,213

After having determined the above, the markets in Addis Ababa were explored to ascertain the availability of local suppliers for the items included in the priority lists. With the exception of textbooks and reference books, it was confirmed that these could be supplied locally. A visit to the Addis Ababa University Book Centre also revealed that some textbooks and reference books could be supplied by them. There was no objection to this possibility from the College. For the other items, the team was able to collect proforma invoices from potential suppliers while others promised to send their quotations directly to Norway within the shortest possible time.

Regarding long term agreement between the Agricultural University of Norway (AUN)/NORAGRIC and ACA there was no problem because of existing agreement between the two institutions though in a narrower sense. So to fulfil the condition laid out in the TOR, another Memorandum of Understanding was signed which is presented as Annex 8.4.

The team also took time to visit some relevant certain institutions to learn about current educational and technological policies affecting the

provision of teaching aid covered under this grant. These institutions were also briefed about the spirit of co-operation and the long term trends reflected through this NORAD initiative. NORAD representative in Addis, NGOs, national and international institutions were also included in the visit to get general impressions about existing conditions as well as possibilities for future corporation and linkages involving Ethiopian and Norwegian institutions.

## 2. Introduction

Following a visit made by Dr. Gustav Klem, Head, Natural Resources Division of NORAD, to Ethiopia and Eritrea, NORAD wished to offer assistance to three Colleges of agriculture (two in Ethiopia and one in Eritrea). This initiative was described as a fast and basic institution strengthening package designed to help the colleges to meet their basic needs and to stimulate further long term co-operation with AUN/NORAGRIC. It was understood that the level of development co-operation between the Government of Norway and the Governments of Ethiopia and Eritrea, was expanding especially in the field of natural resources management.

Based on the report and recommendation of Dr. Klem, the grant was specifically earmarked for the provision of teaching aid defined very broadly to include textbooks, reference books, audio-visual aid, equipment for teaching material preparation, laboratory and library equipment and supplies as well as transportation means to facilitate practical training and field experience. This was consistent with the expressed needs of the College. While the direct link between teaching and research was fully realised, the focus of the grant was on improving the quality of teaching through the provision of teaching aid.

The project was conceived as a one time emergency academic aid with the assumption that Norwegian assistance to Ethiopia would soon be upgraded through bilateral agreements in which case long term cooperation and assistance would be eminent.

NORAGRIC was appointed by NORAD as consultant to facilitate the implementation of the project in close co-operation with ACA. The specific objective of the consultancy was to produce lists of textbooks, reference books and basic teaching aid and select suppliers using prices and other criteria as a basis of selection. The full text of the TOR of the consultancy is given in Annex 8.1.

The NORAGRIC team consisted of Aregay Waktola (Agriculturist) as team leader, Liv Ellingsen (Librarian), Carl Grennes (Logistics) and

Henning Svads (Agronomist), the latter to act as project coordinator based at the home office of NORAGRIC.

After having made the necessary preparations, as per the NORAD-NORAGRIC agreement, the team travelled to Ethiopia and Eritrea to conduct the detailed field work for a period of nearly five weeks (see Annex 8.3).

Several meetings were held with the College leadership including the Dean, the Assistant Deans, and the Department Heads as well as relevant persons in other government and nongovernment institutions. These included the Embassy of Norway, the Addis Ababa University (AAU) Library; the School of Information Studies for Africa (SISA), the Ethiopian Science and Technology Commission (ESTC), the Institute of Agricultural Research (IAR), and the International Livestock Centre for Africa (ILCA) as well as the Regional Bureaux of Agriculture and Natural Resources in Mekele. Annex 8.5 presents the list of institutions/persons visited.

Most of the time, however, was devoted to activities within ACA. These included intensive discussions and observations of college facilities and the like. The exchange of views and interactions with Department Heads were more detailed and included visits of facilities, laboratories and field activities. Facts and figures were provided with supportive documents which simplified the work for all concerned. Lists had to be revised several times to comply with the proposed level of assistance. The final priority lists were endorsed by the Department Heads and the College leadership.

The remaining portion of this report presents brief accounts of the needs and priorities. A brief introductory background is given to serve as a frame of reference. This is followed by comments on the rationale for the choice of the priority items. The detailed lists are presented in Annex 8.7.

# 3. General background

The Awassa College of Agriculture (ACA) was established in 1976 for the purpose of training intermediate agricultural technicians. The original programmes were limited and led to a diploma (12+2) but since 1992 three of the Departments have been upgraded to offer degree programmes as well. This College had been part of Addis Ababa University (AAU) until very recently (July 1994). It was separated from the University by Government decision and put under the umbrella of the Ministry of Education. It is envisaged that it would be incorporated with the Wondo Guenet Forestry Institute and the Arba Minch Water Resources Institute to form the Southern Regional University within the near future.

Its present structure is comprised of the following six Departments.

- (a). Basic Sciences Department (BSD)
- (b). Agricultural Engineering and Mechanisation (AgEM)
- (c). Animal Production and Range Management (APRM)
- (d). Home Science and Technology (HST)
- (e). Plant Production and Dryland Farming (PPDF) and
- (f). General Agriculture (GA)

The primary function of the BSD is teaching basic courses in the natural sciences (Biology, Chemistry, Mathematics and Physics), as well as the social sciences (Economic, History, Geography, Sociology, and Philosophy) and communication skills (English). These are intended to prepare students for the specialised Departments in both the diploma and degree programmes. On the other hand the Department of General Agriculture (GA) does not offer its own courses but co-ordinates the teaching of selected courses from the various Departments that together prepare generalists at the diploma level. HST, although it has an approved degree programme, runs only diploma programmes for lack of adequate resources. AgEM offers both diploma and degree programmes while APRM and PPDF have phased out their diploma offerings and are concentrating on degree programmes.

The staffing situation at the ACA is at the moment relatively strong with reasonable mix of qualifications. Table 2 presents the distribution of the staff by Departments and qualification. The number of PhD and MS/MA holders is expected to increase to 23 and 50 respectively within the next three years assuming that those who are on study leave will return which has been the case so far. Awassa has not been victim of brain drain as in other institutions of higher learning in the country. Nevertheless, HST has remained weak because the staff development efforts have not been as aggressive as in the other departments. There is no question about the need for high level manpower in this field of study.

**Table 2:** Distribution of academic staff by Departments and qualification at ACA

Dept.	PhD	MS/MA	BS/BA	Diploma	Total
BSD	2	6	3	3	14
AgEM	-	5	4	5	14
APRM	4	4 + 2 DVM*	1	4	15
НЅТ	1	1	3	3	8
PPDF	3	12	5	5	25
Study leave	-	13	7	5	25
Library			1	1	2
Total	10	43	24	26	103

<sup>\*</sup>Doctor of Veterinary Medicine

Regarding student intake, the average annual total enrolment of students has been 600. This is far beyond the physical capacity of the College. There are acute shortages of classrooms, laboratories, library space and facilities, staff offices, and dormitories as well as staff housing among other things. Without substantial investment in the development of such infrastructure, the idea of creating a Southern University would be unrealistic.

In the past, ACA has been receiving considerable external assistance from GTZ, NORAGRIC and SAREC. Government appropriations for research have been substantial although while other operating ad capital budgets remained miserably poor to the detriment of the quality of teaching. Interestingly, the College is running a successful farm of about 460 hectares and is helping to augment the budgetary deficiencies and to some extent providing possibilities for practical training.

# 4. Teaching aid priorities

A series of meetings were held to review the situation before the task of prioritisation was undertaken. Details of the TOR were examined and clarified. Similarly, the proposals prepared by each of the Departments were reviewed. Evidently, there were many more requests than could be covered with the limited fund. Therefore a decision was made to consider

certain equipment for common use which will be placed centrally while other very essential items to be purchased for Departments.

Department Heads were asked to revise their priority list in consultation with their staff. It was emphasised that specifications of priority items should be as complete as possible. Unfortunately, there were very limited catalogues to use for this purpose. Those that were brought by the team, were found to be very useful. Annex 8.7 presents the recommended lists of teaching aid priorities. It was agreed that in case some of the items may not be available in the form specified in the list, the team was authorised to seek substitutes in consultation with the staff at AUN/NORAGRIC. Some clarification and summarised information on the major priority items are noted below to rationalise the proposed level of allocation for each category of items.

# 5. Comments on major categories of teaching aid

### 5.1. Textbooks

One basic textbook was selected for most of the courses. In a few cases it was very hard to find one basic text to cover the whole course or the majority of it. In such cases several titles will be bought in sets, as part of the reference books in which case the number of textbooks proposed for the Department in question will be reduced.

### 5.2. Reference books

10-15 titles were considered for each course by the teaching staff. The lists of these titles were as far as possible put up in a prioritised order, and the team was left with some freedom to slice or even add titles after checking, availability, sufficiency of fund, etc.

### 5.3 Equipment

## 5.3.1 Library equipment and supplies

The development of the library was of particular interest to all concerned. The team was in Awassa at a rather unfortunate time, when the Head librarian had been absent or inactive for several months while seeking a transfer to Addis Ababa. He had made this request immediately after his return from training in England. This was resisted by the College which appeared to have affected the relationship between the College management and the library, and there seems to be frustrations on both sides. The team has however noted that there was a solution in sight as the College had given up and was recruiting to employ a substitute.

In view of the above it was not that easy to judge on the normal activities of the library and its potential for future development. However, the fact remains that collections as well as equipment and furniture are old and worn-out; the majority of the book collection is probably outdated. There are few current journals subscriptions, but some funds for subscriptions and/or books are available.

Tools for cataloguing and indexing of literature are inadequate. The management of the College as well as the acting librarian are keen to start computerisation of housekeeping routines. Training in computer literacy as well as the appropriate software packages is essential to implement the computerisation process.

The size of the library building will still be sufficient for some years to come, but the roof is reported to be leaking, and should be repaired as soon as possible to prevent damage to books and furniture. Detailed information is included in Annex 8.6.

First priority is given to minor items like book equipment and repair material needed to process the books from this grant. A computer and appropriate software for cataloguing for the library is specifically stressed by the management, since there was a clear understanding of the need for better tools in processing the books. Similarly, microfiche reader/printer is given high priority to utilise the existing microfiche in the library. Another major item that is proposed for the library is a photocopier to provide the College community with photocopy services by charging reasonable price.

Finally, a book binding equipment for the production of books, handouts etc. as well as for general use in preserving the library stock are suggested.

### 5.3.2 Equipment and supplies for the preparation of teaching materials

As indicated above, purchase of a photocopier is recommended for this purpose. The preparation of teaching materials requires a good supply of papers among other things.

PCs are proposed to strengthen the PC lab. These will be used to teach computer courses as well as for the preparation of handouts, transparencies and other teaching materials by the staff.

Overhead transparencies are already available in sufficient number to satisfy present needs.

Markers for transparencies are in short supply.

Both camera and video camera are already found and can be used for making slides and video films locally.

Frames for mounting slides are missing. These were wanted in order to utilise slide series delivered as film strips.

Laboratory equipment and chemical supplies

After a major revision of the Departments' original proposals made by the various Departments, only a short list is recommended. This list includes mainly spare parts, comparatively inexpensive lab equipment and chemical supplies which are felt very essential.

#### 5.4. Audio-visual aid

Overhead projectors, video sets, and slide projector are already available and are not utilised to the optimum. The need for slide series, video films etc. was stressed, but little information on such material was available to make a selection. Some freedom was therefore left to the team to select this kind of teaching aid, according to the types requested by the College.

Charts of different kinds are suggested by some Departments. Also in this case the team is requested to make the appropriate selections.

# 6. Other sources of funds for teaching aid

It was reported that external assistance for general infrastructure development especially earmarked for strengthening teaching had been very limited. Most of the assistance was oriented towards promoting research, perhaps with the exception of that received from GTZ which is phasing out within the coming three years. Therefore, the present NORAD assistance is timely.

# 7. Institutional agreements

Fulfilling the precondition set by NORAD on this issue was not a difficult task at all. As indicated previously, the ACA -NORAGRIC research collaboration has been progressing successfully. When the issue was raised it was only a matter of broadening the existing agreement which is rather limited to research and related capacity building. The Memorandum of Understanding attached as Annex 8.4 was concluded.



# 8. Annexes



# TERMS OF REFERENCE for A CONSULTANCY TO SUPPLY TEACHING AIDS to THE AWASSA COLLEGE OF AGRICULTURE

### 1. Background

The Governments of Ethiopia and Norway have agreed to cooperate within the field of natural resources management, with an emphasis on strengthening of relevant Ethiopian institutions. One such institution is the Awassa College of Agriculture (ACA).

ACA is most fortunate in having a number of dedicated teachers, and highly motivated students, but the teaching suffers from of a severe lack of basic textbooks and teaching aids.

ACA urgently needs relevant textbooks for its students and the teachers are in equal need of up to date reference books. The teachers further need teaching aids in the form of overhead projectors, slide projectors and demonstration material and proper means of producing handouts. Furthermore, ACA needs means of transport in order to carry out field practicals and basic equipment for laboratory and practical classes.

The items to be provided as a result of this consultancy is meant as a fast and basic institution strengthening package. Other support needed by ACA may result from continued cooperation of a more long term nature with NORAGRIC at the Agricultural University of Norway.

### 2. Objective

To produce lists of textbooks, reference books and basic teaching aids, and to secure purchase, delivery and facilities for storage and use of such items.

#### 3. Scope of work

In all matters mentioned below it is assumed that the consultant cooperates closely with ACA to accrtain ACA' priorities. The ACA syllabi for the various courses shall form the basis for the work.

3.1 Produce prioritized lists of the most relevant textbooks (3-5) for students in each of the two diploma years and for students in each of the four B.Sc.

years according to Standards for African Universitits and the UNESCO Standard. These books are to be purchased in class sets, i.e. one copy pr. two-three students.

- 3.2 Produce prioritized lists of the most relevant textbooks/reference books (10-15) in each of the subjects taught. These books are meant to serve as the individual teachers "hand library".
- 3.3 List the extra equipment needed by the College Library for proper cataloguing, storage and lending of the above books.
- 3.4 Produce a list of the most urgently required, and relatively simple, equipment and material which will enable the teachers to produce notes and handouts for the students.
- 3.5 Produce lists of an appropriate amount of suitable teaching aids such as overhead projectors and slide projectors with the necessary accessories, including demonstration material in the form of slide series etc.
- 3.6 Produce lists of the most basic equipment missing for proper teaching of laboratory and practical classes.
- 3.7 Present concrete proposals on additional items for the institution strengthening package not indicated above, suitable for quick disbursment and not of the type which may be included in a long-term agreement on institutional cooperation.

When making up the lists, due consideration shall be given to possible contributions from other donors.

All lists specified above shall contain exact numbers of each item, purchase costs of each item and freight costs from the supplier to Awassa.

All suggested purchases shall be based on tenders or fixed list prices and preference shall be given to suppliers in Ethiopia, in the Region and outside the Region, in that order, unless the prices delivered Awassa indicate otherwise.

### 4. Team members, mode of work

4.1 The team shall consist of two persons from NORAGRIC/The Agricultural University of Norway, one with teaching experience and a general understanding of agriculture/aquatic science in the tropics and one being a professional librarian with a specialization in tropical agriculture/aquatic science. In addition, NORAGRIC shall draw upon the experiences of a selected group of teachers at the Agricultural University of Norway.

- 4.2 In Awassa, the team shall work in close collaboration with representatives from and appointed by ACA. The Dean of ACA, the different department Heads and the Chief Librarian of the College are obvious resource persons.
- 4.3 The work shall start in Norway with the team seeking information on the ACA syllabi, gathering catalogues and making tentative lists.
- 4.4 At a suitable time after relevant catalogues and tentative lists have been received by ACA, the team shall travel to Awassa for detailed discussions with ACA. These discussions shall lead to the detailed lists indicated above.
- 4.5 The final lists, with titles, descriptions, prices, names of suppliers and details concerning shipment and necessary arrangements in Awassa, together with a copy of the signed institutional agreement between ACA and NORAGRIC (Agricultural University of Norway), shall be presented to NORAD/Oslo not later than four weeks after the team has returned to Norway.
- 4.6 The total cost of the proposed institution strengthening package, excluding the cost of the consultancy, shall not exceed a sum of approximately NOK 1,5 mill.
- 4.7 Implementation of purchases and other NORAD financed inputs in relation to this institution strengthening package depends on the final approval of the Royal Norwegian Ministry of Foreign Affairs and will, if approved, be entrusted to NORAGRIC, based on a contract between NORAGRIC and NORAD.

Oslo, 6. juli 1994

Head

Natural Resources Management Division
Norwegian Agency for Development Cooperation



NORAGRIC Postboks 5002 1432 ÅS

> Deres ref.: Your ref.:

Vår ref.: Our ref..

Dato: Date:

5. juli 1994

# OPPDRAG I ERITREA OG ETIOPIA

Det vises til tidligere kontakter om saken.

Vedlagt følger kopier av brev til tre institusjoner for høyere landbruksutdanning, en i Eritrea og to i Etiopia. Brevene er vedlagt Terms of Reference som i hovedsak er like for alle institusjonene.

NORAD ber NORAGRIC om å påta seg de oppdragene som er skissert i brevene innenfor disse rammene:

- 1. Hvert av de tre oppdragene, beskrevet i de tre TOR, skal kun starte etter skriftlig anmodning fra vedkommende institusjon.
- 2. Konsulentgruppen skal bestå av to personer slik som indikert i para 4.1 i TOR. Gruppen, eventuelt forsterket av sekretær/koordinator, skal arbeide tilsammen inntil 150 timer før utreise, gruppen på to skal arbeide inntil 2x25 dager i Etiopia og Eritrea og gruppen, eventuelt igjen med sekretær/koordinator, inntil 100 timer etter hjemkonst. I tillegg tilståes NORAGRIC inntil 150 timer for assistanse fra en prosjektgruppe rundt konsulentgruppen.
- 3. Hvis ikke alle tre oppdragene blir å gjennomføre, vil nye tidsrammer bli avtalt.

4. All honorering og refusjon av utgifter skal skje ifølge samarbeidsavtalen mellom NORAD og NORAGRIC datert februar 1994.

Vennlig hilsen,

ustav S. Klem

kontorsjef

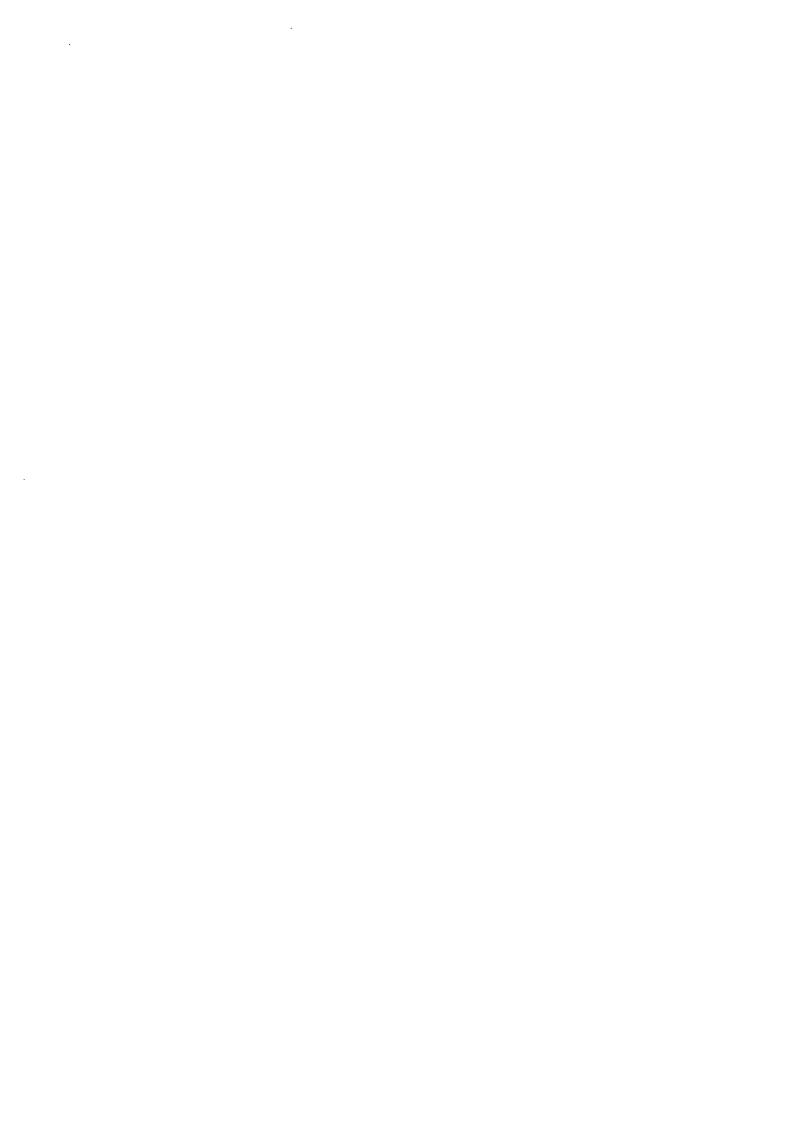
Kontor for naturressursforvaltning

cc. NORAD/AFR

cc. NORAD/Addis Ababa

### 8.3. Itinerary

Departed from Oslo/Fornebu on 29 August 1994 at 1700 Arrived at Addis Ababa/Bole on 30 August 1994 at 0915 Travelled to Awassa on 31 August 1994 Returned to Addis Ababa on 6 September 1994 Travelled to Mekele on 12 September 1994 at 1200 noon Travelled to Asmara from Mekele by road on 18 September Returned to Addis Ababa from Asmara on 25 September 1994 Liv Ellingsen returned to Norway on 1 October 1994 at 2200 Aregay Waktola returned to Norway on 10 October 1994



# MEMORANDUM OF AGREEMENT

The Agricultural University of Norway and Awassa College of Agriculture, wishing to intensify the existing cooperative relations between the two institutions especially to develop the academic and scientific research interchanges between the two institutions through mutual assistance in the areas of education, research & publication and others, agree as follows:

# PART I SCOPE OF THE COOPERATION

The areas of cooperation include, subject to mutual consent, any program offered at either institution as felt desirable and feasible on either side and that both sides will contribute to the fostering and development of the cooperative relationships between the two Universities.

The assistance to be provided by each of the contracting parties will be scientific research, exchange of faculty members, students, etc., as deemed beneficial by the two institutions.

# PART II AREAS OF COOPERATION

Assistance shall be carried out, subjected to availability of funds and the approval of the two Universities through such activities or programs as:

- 1. Exchange of faculty members
- 2. Exchange of students
- 3. Joint scientific research
- 4. Participation in seminars and academic meetings
- 5. Exchange of academic materials and other information
- 6. Special short-term academic programs

# Memorandum of Agreement Page 2

The terms of such mutual assistance and necessary budget for each program and activity shall be mutually discussed and agreed upon in writing by both parties prior to the initiation of the particular program or activity and such programs & activities shall be negotiated on an annual basis. Each University will designate a Liaison officer to develop specific activities or programs.

# PART III EFFECTIVE DATE AND LENGTH OF AGREEMENT

This memorandum of Agreement will remain in force for a period of five years and any amendment and/or modification of the agreement requires a written approval of the two signatories and shall be appended hereto. After the initial five years period this memorandum of agreement may be renewed by mutual consent.

Either party reserves the right to terminate this memorandum of agreement upon six (6) months' written notice to the other.

This memorandum of Agreement shall take effect on the date indicated below:

FOR AGRICULTURAL UNIVERSITY OF NORWAY

Signed:

Date:

01-11-98

FOR AWASSA COLLEGE OF

**AGRICULTURE** 

Signed:

Date:

### 8.5. Institutions/persons visited.

# Ethiopia:

School of Information Studies for Africa. Addis Ababa University.

Getachew Birru, Dean

Addis Ababa University Library

Adhana Mengsteab, Chief Librarian

Norwegian Embassy/NORAD representive

Knut Kayser, Gudrun Landbø, Inger Dybdahl, Per Amund Gulden

Awassa College of Agriculture (ACA)

Assefa Gebre-Amlak, Dean

Zinabu Gebre-Mariam, Assistant Dean for Academic Affairs

Mogessie Ashenafi, Assistant Dean for Research and Extension

Fekadu Beyene, Dept. of Animal Production and Range Management Gulilat Dessi, Basic Sciences Dept.

Endalkawach Woldemeskel, Dept. of Plant Production and Dryland Farming

Befakadu Wolde, Dept. of Agricultural Engineering and Mechanization Assefach Hailu, Dept. of Home Science and Technology

Woubshet Wakie, Intermediate Library Assistant

Ethiopian Science and Technology Commission (ESTC)

Beyene Kebede, Head of Agricultural Dept.

Mulugeta Libse, Head of Computer Centre

Eshetu Alemu, Head of National Scientific and Technological

Information Centre

Akale Selassie, ESTC Library

International Livestock Cerassian Africa (ILCA)

Pramod Kumar Sinha, Head of Information Dept.

Paul J.H. Neate, Head of Publications Dept.

Institute of Agricultural Research (IAR)

Gashaw Kebede, Head of Library and Documentation Section, Information Services.

Relief Society of Tigray, Addis Ababa (REST)

Norwegian Church Aid

Kjell Solberg, Residential Representative

Hoechst Ethiopia Pvt. Ltd. Co. Michael Seyoum, General Manager

Mekele College of Dryland Agriculture and Natural Resources (MCDANR)
Mitiku Haile, Dean
Tilahun Abebe, Assistant Dean
Fassil Kebede, Dept. of Soil and Water Conservation
Mekonnen Yohannes, Dean of Students
Seyoum Gebre-Hiwot, Librarian
Girmay Tesfay, Dept. of Crop Production

Tigray Education Bureau Teklehaimanot Haileselassie, Head of the Bureau

Relief Society of Tigray (REST) Solomon Inquai

Tigray Agricultural Bureau Berhane Hailu

Tigray Region Natural Resources Development and Environmental Protection Bureau Belete Tafere, Deputy Head of the Bureau

PC-House Integrated Computer Services, Addis Ababa Zak A. Salman, Marketing Manager Munir Abdulahi, Technical Manager

Computer Professionals United (CPU) Adisu Engda, General Manager

TELCO Pvt. Ltd. Co Tessema Getahun, Managing Director Allene Molla, Sales Engineer

The Motor And Engineering Company of Ethiopia Ltd. (MOENCO)

Addis Ababa University

- Book Centre
- Bookbinding Section
- Printing Press

Ethiopian Nutrition Institute

Sherif & Sons Light Industrial Products Importer & Distributor A.A. Sherif, General Manager

A number of small shops and companies for market information and prices.

### 8.6. Library situation

There is very little documentation available on the library situation at the college at present. Since library development is seen as an important part of the institution fabric, the team found a need for giving a description of the situation as well as some general comments based on the team members' opinion which can be of help to further institutional cooperation.

The descriptions are not very detailed, since time did not permit to go in dept, but it is our belief that even a ratter superficial description like this will pinpoint some of the areas on which to focus in the future.

8.6.1. Staff

8.6.1.1 Staff profile

Assistant Librarian (B.L.S.) - 1

Intermediate Library Assistant (Diploma)

Library Assistant I (Certificate)

7 Library Attendants (no professional training, one of the attendants has got three months training in book binding. Five out of the seven are placed in the library on a temporary basis).

8.6.1.2. Comment

The staffing situation is inadequate both in respect to number and qualifications. However, the staff present in the library during our visit, gave an impression of being dedicated to their work, but frustrated by the work load and lack of professional input.

The college is presently recruiting a new librarian to replace the assistant librarian, who has applied for a transfer to Addis Ababa. The Dean as well as the library states that for some time the assistant librarian has not been performing his duties in a satisfactory way.

8.6.2. Collections

8.6.2.1 Books

As per June 1994 23, 103 volumes were recorded in the library. Out of this number the library assistant estimates that about 5000 volumes are of some use, about 1000 volumes are very useful, and about 600 volumes are circulated frequently. Some of these volumes are found in multiple copies, so the number of relevant titles is far less.

## 8.6.2.2. Journals

65 journals are currently subscribed to for SAREC funding. This funding will not be renewed for 1995. Some journals and other periodicals are received as gifts, no number is given, they are described as "not very useful" by the library assistant.

### 8.6.2.3 Microfiche

Recently the library has received as a gift the Intermediate Technology Library on microfiche from the Intermediate Technology Working Group, UK. It consists of close to 1000 documents on microfiche. There is also a considerable number of microfiche from ILCA, estimated ca. 1500-2000 documents.

# 8.6.2.4. Acquisitions

For 1992/93 and 1993/94 academic years 1479 volumes were acquired by the library from the following sources:

25 volumes donated by SAREC;

30 volumes donated by GTZ

185 volumes (63 titles) bought from Blackwell's by NUFU grants

835 volumes (easy readers) donated by the British Council

575 volumes purchased from local book shops or received freely as gifts from various sources.

### 8.6.2.5. Comments

The book collection is badly in need of weeding. Proper weeding would also give necessary space for new additions in the open shelves - space is very limited at present.

Journals' subscriptions may be renewed under the NUFU grant deposited with Blackwell's in Oxford, if the College so wishes. No systematic use of networking or exchange agreements seems to have been made.

The mailing list for reports and other publications issued by the College is managed by the research department, and there seems to be no contact to utilize the potential for exchange of publications.

The microfiche reader is out of order, and in any case its only lense has not got the right degree of magnification to read the IT Library microfiche. The IT Library collection could be useful for making handouts to students, particularly in the Home Science and Technology Dept.,

which has had difficulties in finding textbooks covering their subjects taught. Possibility to read and make paper copies from microfiche would also give an opportunity to tap FAO information, since FAO grey documents are in most cases distributed free of charge to institutions in developing countries - on microfiche.

Both the library and the College management confirms that the policy of the college is to include all documents coming to the College in the library collections to build an information resource base for the whole College. However, a noticeable number of unprocessed books in offices indicates that the policy is not practised very strictly.

8.6.3. Building.

# 8.6.3.1. Description.

The area of the present library building is given as 486 m<sup>2</sup>. The seating capacity of the reading room is 250 persons. There are four separate offices, one used as a book store and for book binding/repair, one has been used as an AV-workshop, one is used as the librarians office. A forth office is used for photocopying/microfiche. A partition wall is used to close off the cataloguing desk and stacks for unprocessed books. Reading room and reference desk are shelved off from the active stacks for books and journals.

### 8.6.3.2. Comments.

The building furnished in its present way can accommodate a stock of some 30 000 volumes. Given proper weeding of the stock, this will still be sufficient for many years (yearly acquisitions is very unpredictable, ref. present project).

According to the library assistant's information the number of seats in the reading room is also sufficient, which is a bit surprising, considering working conditions in the dormitories. The book store, which is also used for bookbinding and repair work, is already too small to cover both functions. The sets of textbooks acquired through this project must be accommodated elsewhere when not in use.

Furniture has been used in a practical and innovative way as room dividers.

The roof of the library is reported to be leaking.

# 8.6.4.1 Acquisitions

Services formerly offered by Addis Ababa University Library (mainly acquisitions) are now expected to be done locally, and no strengthening of the staff has taken place. Capacity does not allow for local experience to be built. This partly explains why available funds have not been utilised in an optimal way, and why contact between the library and academic staff is insufficient when it comes to document selection. The lack of current information on new literature, as expressed by both library and academic staff, could easily have been minimised given staff capacity and experience in acquisition work.

# 8.6.4.2. Cataloguing and indexing.

Cataloguing and indexing tools are old and should be replaced by new editions and supplementary manuals. Because one person out of the only two who are qualified to perform this work, has not been present in the library for some time, big backlogs have been accumulated. Several hundred volumes are awaiting processing, not only for capacity reasons, though. Academic staff are allowed into the stacks and librarian's office to browse, and documents are being processed on the spot according to users' requirements. In a situation like this there will be no complete records of the collections, and the chance for unintentional duplication of titles, is present. A major donation of books to be integrated in the library system will create severe friction between the need for immediate use of the literature and the need for organisation for later systematic retrieval and use.

### 8.6.4.3. User services and reference work.

Responsibility for reference work is left with a library assistant holding a certificate in library science (6 months training) and no particular training in agricultural documentation. He seems to be familiar with abstracting journals and other bibliographical tools, as well as with the handbooks found in the library. He is also informed on journal holdings of some other Ethiopian institutions, and claims to request photocopies of articles from these institutions. With the extended opening hours of the library the reference desk will be staffed for less than half of the opening hours. Since part of the opening hours must be seen as merely making reading rooms available, this should be tolerated.

The counter/circulation desk is mainly staffed by library attendants. Student are only allowed to take one book out overnight, and have to leave their student's card as a deposit. Academic staff are allowed to

borrow up to ten books at a time, technical staff up to five. The loan system consists of pockets with users' name on them. Book cards are put in the pockets and filed according to user's name. This offers a good overview of how many and which titles a user has got at any time, but retrieval of a lent document is very time consuming, if at all possible.

No statistical records of the use of the library have been kept until less than one year ago. Since November 1993 daily loan statistics have been kept. The library assistant is concerned about measuring visits to the library as well, since most of the use students make of the library is on the spot reading.

Another new introduction is sending reminders for overdue loans. Reactions from the staff suggest that loan periods should be practised with some flexibility, at least for very specialised literature.

The fact that new routines are being tried out is in itself a good indication that the staff are making an effort to improve services and look for better management tools.

### 8.6.4.4 Administrative work.

The Library is administratively placed under the Dean. The library committee consists of 6 members representing the departments. The members are appointed by the Dean. To our information the library committee has not shown a great interest in the running of the library. Budgeting is done by the librarian, but the library is not represented in any academic fora or other fora for decision making.

# 8.6.4.5 Book binding and book store keeping.

One library attendant has got a three months course in book binding. She does book repair and some binding in the same room as the book store. The room is very crowded and the equipment seems to be worn and insufficient to do proper binding. Efforts are still made to keep the frequently used books in repair to keep them in circulation as long as possible.

Class sets of text books are kept in the book store. They are lent to students for one semester at a time.

8.6.4.6. Opening hours.

7.30-22.00 throughout the week.

### 8.7. Priority lists

### (a) Local, regional and international markets

Time constraint prohibited detailed investigation concerning the local markets. From the observations made, the team was able to determine that many of the major items requested by the College can be supplied from Addis Ababa by/through local agents of international companies. This is especially true for transport, computers, photocopiers, overhead and slide projectors with accessories, chemicals, laboratory equipment and many of the consumable such as papers, markers, etc.

These suppliers have assured the team that they are in a position to provide essential services, spare parts and the like to the institutions payable in local currency. This is a very positive development. It will also have a stimulating effect on the growing internal markets. The companies visited gave impression of being serious and well organized. They were able to provide necessary information on availability and prices of commodities of interest to the team.

After the team returned to Norway, telecommunications with Ethiopia were broken down which prevented some of the local suppliers from forwarding their quotations on time. It must be noted that no attempt was made by the team to explore the markets in other cities in the region, e.g. Nairobi for short of time. Furthermore, the college did not report any business contacts there to encourage any extraordinary efforts within this limited time. On the other hand, European and North American markets were sought which responded rather quickly for books, library equipment, and audio-visual teaching aid.

### (b) Choice of book suppliers

The lists of books needed by the College were sent for bids to three different book shops: Blackwell's, UK, Buchhandlung Kaiser, Germany, and Wiley Eastern, India. Because of the shortage of time, Wiley Eastern could not come up with a bid in time.

The bids from Blackwell's and Kaiser are not directly comparable, since Blackwell's has left out of-print titles, whereas Kaiser has allowed an average price of US\$ 30/copy for replacement titles to be ordered by the institutions. The difference in average price/copy is slightly in favour of Blackwell's.

Both book shops are well recognised international book shops and much used and recommended by Norwegian research libraries. Blackwell's has

got long-standing experience in delivering books to customers in developing countries.

ACA has already got an account with Blackwell's and therefore close links to that bookshop.

The consultancy team suggests that the books are ordered through Blackwell's for the above mentioned reasons.

#### (c) Logistics and shipment

In spite of the limitations mentioned above, the team managed to get few tenders. Some of these came in the form of pro forma invoices which make the task of purchasing very simple. However, in some cases a selection of items or a reduction in numbers has to be made to match the requests with the available funds.

As far as possible, freight costs have been included in the listed prices. Nevertheless, some smaller companies have no export procedures and as such freight will have to be arranged by the purchasing agent. A lump sum of money is held as contingency to cover unforeseen freight and insurance costs.

For speed as well as safety of arrival, air freight should be preferred. However, it will be necessary to ship by surface heavier items such as books. Also, there may be restrictions on commodities like chemicals. Suppliers are very well familiar with such regulations and can arrange for proper dispatch methods.

## Annex 8.7.1

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Priority   08-747F USS 83.68		US\$	08-850-5		151	1 set General purpose lab. knife set
Priority   08-747F		uss	014-825J	Gauge, size 2	3rd	Pack of 12 Needles with
Priority         08-747F         USS         83.68           2nd         08-555A         USS         140.00           1st         150 SD         08-555A         USS         140.00           1st         150 SD         02-037-SD         USS         200.00           1st         150 SD         13-775         USS         117.70           1st         16-660         USS         15.50           1st         11-186-1         USS         49.00           1st         10-029-10         USS         49.00           1st         09-029-10         USS         195.00           1st         09-029-10         USS         190.00           1st         09-029-10         USS         190.00           1st         09-029-10         USS         190.00           1st         05-84.0         USS         190.00           1st         05-84.0         USS         27.00           3rd         05-871.A         USS         73.26           05-871.A         USS         73.26           1st         13-65.55.J         USS         73.26           1st         08-875.55.J         USS         73.73 <td></td> <td>USS</td> <td>014-825K</td> <td>Gauge, size 2</td> <td>3rd</td> <td>Pack of 12 Needles with</td>		USS	014-825K	Gauge, size 2	3rd	Pack of 12 Needles with
Priority		USS	814-825L	Gauge, size 1	3rd	Pack of 12 Needles with
Priority   08-747F		USS	614-825M	Gauge, size 1	3rd	acks of 12 Needles stubs
Priority    08-747F   USS   63.66		USS	14-823-160		3rd	Pack of 25 Synnges, Grad. 1, 20cc, B-D No. 5661
Priority    06-747F   US3   03.68		120	14-823-140	+	3rd	ack of 100 Sympas, Grad 1/5, 10cc. B-D no 5604
Priority   08-747F		2	11-406-8	COLVE	1 0	1 Hot plate
Priority   08-747F		2 2	09-005-20	Cinada	2	A Dockseter Peer forece 160 mm
Priority   08-747F   USS   53.68	629.7	US S	13-812-16	Straight	9	4 Rochester-ochsner Foceps, 160 mm
Priority    06-747F   US\$   63.68	31.0	2 2	07-9555		3 6	
Priority    08-747F   USS   03.68	1 400 0	2 2	13-1008		3	3
Priority   08-747F   USS   53.68   2nd   08-555A   USS   140.00   1st   224 15-450-225   USS   117.70   1st   226 15-450-225   USS   117.70   2nd   bulb type   13-671-104A   USS   34.45   2nd   bulb type   13-105   USS   34.50   1st   10-860   USS   195.00   1st   11-816-1   USS   199.00   1st   900-D   14-486   USS   1910   00   2nd   05-840   USS   1910   00   1st   900-D   14-486   USS   1910   00   2nd   05-840   USS   1910   00   00   2nd   05-840   USS   1910   00   00   00   00   00   00		2 8	05-494		9	Pack of 12 Centraling trans Graduated to 15 mil
Priority   08-747F   USS   63.68		2 8	05-8714	+	314	Pack of 10 Hoffman tubing clamps
Priority    08-747F   US\$   63.68		2	05.840		3	Pack of 10 Clampa with orns
Priority    08-747F   US\$   63.68		usa Sec	14-486	9000-D	91	1 Autoclave/Dryer, 46Lx23cm dia.
Priority   08-747F		200	09-029-10	+		1 Distiller (portable autostill shell output 1.51/h cooling 121/h
Priority   08-747F USS 83.68   22nd   08-555A USS 140.00   1st   224 15-450-225 USS 200.00   1st   1550.50   02-037-5D USS 177.70   2nd   bulb type   13-671-104A USS 34.45   15.50   13.705 USS 43.00   1st   08-680-5 USS 43.00   1st   08-			11.816.1		•	1 An aerobe in
Priority    08-747F   USS   63.68		USS :	06-660		181	1 Sonna driven interval timer
Priority    06.747F   US\$   63.66     2nd   08-555A   US\$   140.00     1st   1550 SD   02-037-SD   US\$   117.70     2nd   5ulb type   13-671-104A   US\$   15.00     1st   1550 SD   13-671-104A   US\$   15.00     13.705   US\$   15.705   US\$   15.705     13.705   US\$   15.705     13.7		USS.	14-804-5			Kolmer rack, 291x10wx10 cmH
Priority    D8-747F	1	2	13-705	- 41.	+	ack of 144 Curved to dropper
Priority			13-671-104A	bulb type	200	Case of 12 Serological propets Capa 1/10.1/100ml (white)
Priority	-	158	02-037-SD	- 1	151	1 Balance with two beams
Priority USS 83.68 543.25		8	VEC-00A	3	200	1 Marie hash mah shaker
	6 543 25	USS	08-747F		-	Pack of 12 Petndishes (Complete set), size 1500dia.x20H
ANIMAL PRODUCTION AND RANGE MANAGEMENT (APRM)				Y	Priorit	Laboratory equipment and materials
AND PROPERTY OF THE PROPERTY O					-	IMAL PRODUCTION AND HANGE MANAGEMENT (APRIM)
						TOTAL THE PARTY OF

Local	798.43 Local	183.40	91.70	DM	447-630	•	le grass barrel, 11 ml.
Local	252 50 Local	58.00	5 80	Q.	447-628	-	11 ml.
Local	287 33 Local	66.00	6.60	DM.	447-624	•	10 pcs Pipette for milk, 11 ml.
Local	2 176 75	500.00	500.00	2			1 pcs Autoclave (stenlizer), 1000 ml.
Local	6 965.60 Local	1600.00	800.00	2	447-500	-	Milk testing centrifuge (for ( bulyrometers)
Local	991.99 LOCA	00.70	00 /0	3	710-74		
Local	051 00 1001	30.30	2.00	2 3	004-401		
	100 00	36.60	7 30	2 5	001 404		microphenes, a micro na.
Local	761.66 Local	175.00	<b>6</b> 75	2	654-443		Microphotos: 5 micro ha
Local	761.66 Local	175.00	6.75	2	654-444	-	20 psc Mciropipattes: 10 micro its.
Local	112.10 Local	25.75	5.15	2	257-100		5 packets Filter paper for quantt, analysis, 15 cm 1st
Local	312.36 LOCA	71.75	14.35	2	257-006	_	5 packets Filter paper for quant. analysis, 15 cm
Coca	24.220	120.00	2.00	2 5			Hand gloves (acid resistant
Cal.	522 A2 CCa	100 00	3 3	2			Land clare (10 100 m)
Local	435 35	100 00	50 00	2			Extraction thinble (70-100 ml)
Local	6 530.25	1500 00	300.00	2	656-127		Desicator with dessicant
Local	3 047.45 Local	700.00	350.00	2	655-330		2 pcs Dispensing pipette (500 ml)
Local	P. C. B. C.	225.00	40 00	3	052-440		Automatic burrete (1000 ml)
	070 64	330	10.00	2 9	00000		
ocal	330 87	76.00	38.00	2	653-012	•	Drattes - graduated (10 ml)
Local	348.28	80.00	8.00	2	447-602	•	Samole bottles: plastic
Local	522.42 Local	120.00	12.00	₽	447-600	•	Sample bottles; glass
Local	435.35 Local	100.00	10.00	Ş	577-461		10 pcs Crucibles for temp, up to +1900 degrees C. 250 ml. 1 st
Local	270.02 LOCAL	9.00	200	3	770-007		Finer Tunner, 125 mi
- SP	274 62	200	33 83	2	3		
Local	402.26 Local	92.40	46.20	Q	255-831	•	Filter funnel: 500 ml
Local	2 673.05 Local	614.00	61.40	2	581-484	-	10 pcs Buechner tunnel (500 ml)
Local	304.75 Local	70.00	35.00	Ž	630-437		2 packets Erlennyer flasks; 500 ml 1st
Local	3/4.00 LOCAL	132.00	00.00	3	630-436		Eriennyer flasks; 1000 ml
I wal	674.00	2000	20.00	2 5	030-000		
ncal .	186 966	5000	36 00	2	656-006		
ocal	348.28 Local	80 000	40 00	2	656-009		2 packate Volumetro flacke: 500 ml
Local	1 306.05 Local	300.00	15.00	DM	447-758		
Local	2 176.75 Local	500.00	10.00	Ş	447-750	_	50 pcs Butyrometer (0-6%:0.1%)
Local	870.70 Local	200.00	200.00	×	447-820		1 pcs Salut tester, for acidity 1st
Local	8 /0/.00	2000 00	2000 00	2			1 pcs Maize chopper for sliage making 2nd
Local	100	000	000.00	3	147-900		or mix
			200	2	447 000		Meteriale required for practicals (all Nath Note Car.)
							Table fall Karl Kall
							APRM - DAIRY SECTION
	8 051.80						SUM
679.15 Karl Kolb 1983, p. 47	679.151	156.00	156.00	Z	164-924		1 Dial spring balance, Dyanometer capacity 25 kg. 100 g. 3rd
Karl Rold 1983, p. 47	6/8/15	156.00	156.00	Ž	164-926		
7ari 700 1903, p. 47	/17.001	163.50	163.50	2	784-827		
Nail Not 1963 p. 47	711 00 1	1074.00	100	3	201-200		1 Deep freezer, 3221 gross, 3071 net
C 001 71 Karl Kor 4000 7 481	5 081 71	1374 00	127.00	2 5	300		
(arl Koh 1981 n. 222	0 00	730 00	133 00	2	363.41		Pio control control control man control ground to
							place with round hottom boiling tlack copycal ground lourity w/
							6 Sochiet extractor complete w/ Dimroth condenser Borosilicate 151
							items to be purchased for Practicals from abroad.
				1			
	1 655.14						
ocal	348.30 Local	53 65			B 11049		Blood agar base (with low pH)
ocal	861.16 L	132 65				_	Mac Conkey agar
ocal	191.51 Local	29 50			DF 0655-01-7	_	1 to APT Broth 3rd
ocal	254.16 Local	39.15			DF 0317-17-9	_	
							Microbiological mediae
	2 167.35						SUM
Local	304.201	80.00			D 40841		1 krt BBL Staphyloside Test
Local	280.28 Local	21.00		,	B40840		
COCAL	900 /0 Local	152.00		,	2667-59		1 kt Febrie antigen prt with controls
				<u></u>			
	100.14		$\Big $	1			358
	108	 	$\downarrow$			-	(90CKet 9/26, NS 29/32)
ocal	46.58 Local	10.70		2		250 ml	2 pack Flat bottomflasks, medium neck, with standard groundjoint 2nd
							(socket size, NS 29132)
ocal	58 55 Local	13 45		Ş		500 mi	2 pack Flat bottomflasks, medium neck, with standard groundjoint 2nd
	3 974.73						SWL)

Ė	_

38	168 898.68						TOTAL APRM
05	106 460.05						SUM
48 Local	15 215 48 Local	3495.00		₽	281-225	3rd	1 Drawing apparatus, Camera Lycida, w/ internally reflects image 3rd
6 874.18 Local	6 874.1	1579.00		2	278-332	3rd	Optics for Brightfield
2 472 79 Local	2 472 7	568.00		₽	282-416	274	1 Widefield magnification changer, factor 0.8x
740.10 Local	740.1	170.00		2	282-415	2nd	1 Magnification changer, factor 1.6x
211.36 Local	211.3	48 55		₽	278-336	2nd	Spare bulb, 6V, 15W
210.27 Local	1 210.2	278.00		₽	278-323	3rd	1 Wooden Cabinet, w/ lock
97 Local	15 824 97 Local	3635.00		Z	278-325	2nd	1 Carl Zeiss Laboratory Microscope
667.39 Local	667.3	153.30	76.65	2	654-218	191	2 pcs Automatic pipette, 100 ml
287 33 Local		66.00	6 60	D.	577-459	191	10 pcs Melting crucibles, Porcelain, 150 mV9
246.84 Local		56 70	56 70	₽	653-919	151	1 packet Volumetric pipettes, 100 ml
267.30 Local		61 40	30.70	₽	653-915	151	2 packets Volumetric pipettes, 25 ml
188.51 Local	_	273.00	136.50	₽	658-340	151	2 pcs Desiccator opener
609 49 Local		140.00	28.00	₽	662-526	191	5 packets Flat bottom flasks, 500 ml, long neck
415.76 Local		95 50	9.55	₽	662-506	191	10 packets Flat bottom flasks, 100 ml, medium neck
98.82 Local		22.70	2.27	2	572-154	191	10 pcs Washing bottles, polyethyrene (100 ml)
393.99 Local		90 50	9 05	2	447-766	151	10 pcs Butyrometer, 0 to 8%: 0.1 for whole milk
718.33 Local		165.00	33.00	2	447-940	191	5 pcs Thermolactadensimeter model Quevenne, range 1.015 to 1.040 1st
017.63 Local		233.75	46.75	DM	447-930	151	5 pcs Thermolactadensimeter model Gerber, range 1.025 to 1.036
2 993.03 Local	2	687.50	137.50	D.	447-830	151	5 pcs Titration apparatus
296 04 Local		68.00	6 80	DM	447-770	151	10 pcs Adjusting key for stopers
805 40 Local		185 00	1 85	DM	447-768	191	100 pcs Patent stoper for butyrometers
974.75 Local		913 00	913 00	2	447-710	19.	10 pcs Water barth, cylinderical, w/rack for 12 butyrometers
890 29 Local		204 50	20 45	2	275-795	191	10 pcs Hydrometer Far, made of polypropylene w/ graduation
626 90 Local		144 00	144 00	DM	447-634	191	1 pcs Permanent measure, 10 mi for anyl alcohol
753.16 Local		173 00	173 00	2	447-632	181	1 pcs Permanent measure, 10 ml for sulphuric acid

	380 00 350 00 10.00 5	
Section   Sect	380 00 350 00 10.00 5.00 5.00 5.00 5.00 5.00 5.00 5	
Second   S	380 00 350 00 350 00 10.00 5.00	9U.S.
Second	380 00 350 00 350 00 10.00 5.00 5.00 5.00 5.00 5.00 5.00 5	10 Thermometer (-10 - 100 degrees Centigrade)
Second   S	380 00 350 00 10 00 5	
d	380 00 350 00 10 00 5 00 6 00 6 00 6 00 6 00 7 00 00 6 00	3.6 Equipment. Food storage & preservation
Marching Aids (source: National Health Research Institute, EN = Ethiopean Nurritional Institute)   1000   1380.00	380 00 350 00 350 00 10.00 5.00 5.00 5.00 5.00 5.00 5.00 5	SCHI
Second   S	380 00 350 00 227 00 25 00 5 00	CANA CONCINE VINA
Seach   ARI-B   GEP   1 380 00	380 00 350 00 227 00 25 00 5 00 5 00 5 00 5 00 5 00 5 00	1.2 Butcher knife
Marie   Mari	380 00 350 00 227 00 77 00 77 00 5 00 5 00 5 00 5 00 5 0	10 Franch Paulo
Second   S	380 00 350 00 227 00 227 00 77 00 5 0	5 Grater
Marie   Mari	380 00 350 00 350 00 10 00 227 00 25 00 5	10 Vacatable peak
Marching Aids (source: National Health Research Institute, ENI - Ethlopean Nutritional Institute)   Eaching Aids (source: National Health Research Institute, ENI - Ethlopean Nutritional Institute)   Description	380 00 350 00 227 00 77 00 5 00 5 00 5 00 25 00 5 00 25 00 5 00	5 Bread knie
d	380 00 350 00 350 00 10.00 5.00 5.00 5.00 5.00 5.00 5.00 5	1 Juice ostenzer (centrifugal force)
d	380 00 350 00 227 00 227 00 25 00 5 00 5 00 5 00 5 00 5 00 5 00	10 Heavy duty blenders
d	380 00 350 00 350 00 777 00 5 00 5 00 5 00 5 00 5 00 5	5 Electire stoves, small type
Burr   5.00   25.00	380 00 350 00 350 00 10 00 10 00 5 00 5 00 5 00 25 00 5 00 25 00 25 00 25 00 25 00 25 00 25 00 5 00	
Barr   S.00   S.00	380 00 350 00 227 00 77 00 5 00 5 00 5 00 25 00 25 00 5 00 25 00 5 00	36 Equipment Nutrition Lab
Burr   1,000	380 00 350 00 227 00 77 00 5 00 5 00 5 00 5 00 5 00 5 00	
Mark	380 00 350 00 227 00 225 00 5 00 5 00 5 00 5 00 5 00 5 00	SUM
Mary Bach   ART-B   349   1 360 00   1 360 00   350 00	380 00 350 00 777 00 777 00 5 00 5 00 5 00 5 00	50 Scissors (Singer)
Mark	380 00 350 00 227 00 77 00 77 00 5 00 5 00 5 00 5 00 5 0	20 Drafting paper
d   each   ART-B   G3P   1 360 00   1 380 00     sach   Sach   G3P   277 00   350 00     sach   G3P   277 00   350 00     G3P   77 00   350 00     G3P   77 00   350 00     G3P   77 00   77 00     Faching Aids (source: National Health Research Institute, ENI - Ethiopean Nutritional Institute)   Faching Aids (source: National Health Research Institute, ENI - Ethiopean Nutritional Institute)   Birr   10 00   10.00     Birr   5 00   5 00     Birr   5 00   25 00	380 00 350 00 227 00 227 00 77 00 77 00 5 00 5 00 5 00 5 00 5 0	100 Sewing machine needles
d	380 00 350 00 227 00 77 00 5 00 5 00 5 00 5 00 25 00 25 00 25 00 25 00 25 00 25 00	50 Pressor foot (Singer machine)
Barr   10.00   1380.00	380 00 350 00 227 00 77 00 5 00 5 00 5 00 5 00 5 00 5 00	- Diessing mitter
d	380 00 350 00 227 00 77 00 5 00 5 00 5 00 25 00 25 00 25 00 25 00 25 00 25 00	1 Process Culter (Sunome type)
d	380 00 350 00 227 00 77 00 5 00 5 00 5 00 25 00 25 00 25 00 25 00 25 00 25 00	
d	380 00 350 00 227 00 77 00 10.00 5.00 5.00 5.00 5.00 5.00 5.00 5	had making att
Sach   AR1-B   CBP   1 380 00   1 380 00   1 380 00   1 380 00   1 380 00   1 380 00   1 380 00   1 380 00   1 380 00   1 380 00   350 00   1 380 00   1	380 00 350 00 227 00 77 00 5 00 5 00 5 00 25 00 25 00 25 00	1 Heavy duty Singer sewing machine with accessoring for leather
Sach   ARI-B   Cap   1 360 00   1 380 00	380 00 350 00 227 00 277 00 777 00 5 00 5 00 5 00 5 00 25 00 25 00 25 00 25 00	3.0 Equipment, rextiles a Ciothing Cab.
Burr   1,000   1,380.00   1,380	380 00 350 00 350 00 777 00 10 00 5 00 5 00 5 00 25 00 25 00 25 00 25 00 25 00	
ARI-B   ABP   1 380 000   1	380 00 350 00 227 00 77 00 5 00 5 00 5 00 25 00 25 00 25 00 25 00	SC#
d	380 00 350 00 227 00 77 00 77 00 5 00 5 00 5 00 5 00 5 0	r operation, environmental, women a issues ex-
March   API-B   CSP   1 380 00	380 00 350 00 227 00 77 00 77 00 5 00 5 00 5 00 5 00 5 0	Cinera
Second   S	380 00 350 00 77 00 77 00 5 00 5 00 5 00 5 00 5	
ARI'-B	380 00 350 00 227 00 77 00 10.00 5.00 5.00 5.00 5.00 5.00 5.00 5	SVM
API B	380 00 350 00 227 00 77 00 77 00 5 00 5 00 5 00 5 00	
Second   S	380 00 350 00 227 00 77 00 77 00 5 00 5 00 5 00	
ARI'-B	380 00 350 00 227 00 77 00 5 00 5 00 5 00	
ARI-B   ARI-	380 00 350 00 227 00 77 00 77 00 5.00 5.00 5.00 5.00	2. For Human Growth and Development
ARI-B	380 00 350 00 227 00 77 00 77 00 10.00 5.00 5.00 5.00 5.00	
API B	380 00 350 00 227 00 77 00 77 00 10 00 5 00 5 00 5 00	
ARI-B	380.00 350.00 227.00 77.00 77.00 10.00 5.00 5.00 5.00	10 Food models
ARI-B	380 00 350 00 227 00 77 00 77 00 10.00 5.00 5.00	1 Poster showing the human digestive system
d	380 00 350 00 227 00 77 00 77 00 10.00 5.00	
d	380 00 350 00 227 00 77 00 10 00	
ARI-B	380 00 350.00 227.00 77 00	
d each ARI'-B GEP 1 380 00 1 3	380 00 350 00 227 00 77 00	1 Eating for good health
dd each ARI-B GBP 1 380 00 1 3	380 00 350 00 227 00 77 00	1. For Nutrition Education
d	380 00 350 00 227 00 77 00	
d each AR1-B GBP 1 380 00 1 380 00 ach Brr 35.00 GBP 227.00 CBP 227.00 77.00 T7.00	each         AR1-B         GEP         1 380 00         1 380 00           each         Bir         35 .00         350.00           GEP         227 00         227 00         277.00           TO         77 00         77 00	Posters, Flipcharts and other Teaching Aids (source: Nat
d each AR1-B GBP 1 380 00 1 380 00 asch Brr 35.00 350.00 GBP 227 00 227.00 New born GBP 77 00 77 00	each AR1-B GEP 1 380 00 1 380 00 each Bur 35.00 350.00 GEP 227.00 227.00 GEP 77.00 77.00	
dd each AR1-B GEP 1 380 00 1 3	each AR1-B GBP 1 380 00 1 380 00 each Birr 35.00 350.00 GBP 227 00 227.00 GBP 77 00 77 00	SUM
dd aach AA1-B GBP 1 35.00 1 350.00 aach GBP 227.00 CBP 227.00	ARI-B GBP 1 380 00 1 380 00 Birr 35.00 350.00 GBP 227 00 227.00	
d aach ARI-B GEP 1 380 00 1 380 00 aach Bur 35.00 350.00	AR1-B GBP 1 380 00 1 380 00 Birr 35.00 350.00	1 Human infant doll 3 months
d aach AA1-B GBP 1 380 00 1 380 00	AR1-B CBP 1 380 00 1 380 00	10 Small size acissors
3.6 Equipment, Family Health		1 Adult size doll for teaching first aid
16 Follower Sentity Health		CA Edulation Committee Com
JERNE AND TECHNOLOGY (N31)		3.6 Equipment Family Health
17157 A17 477171 707 4167		HOME SCIENCE AND TECNOLOGY (HST)

TOTAL PPDF		Γ											PLANT	
PPDF	L	SUM.	17	-	æ	SUM	- P	>	SUM	1 51	0	L	PRODL	-
			Tensiometer set	Laboratory centrifuge	Soil Science section		Portable digital pH meter	Agronomy section		Stereomicroscopes	Crop Production		PLANT PRODUCTION AND DRYLAND FARMING (PPDF)	
							_			Eagle model 30				
							L			nodel 30				
			14-apr	197-100			OSK 10753							
				R			Š			88				
			2310.50	DM 8320 00			5 900 00			207 59				
			DM 2310.50 2 310.50	8 320.00			NOK 5 900 00 5 900 00			207.59				
120 621.18		112 523.84	24 456 64	88 067.20		5 900.00	5 900 00 Metric		2 197.34	2 197.34 Telco				
			24 456 64 Karl Kolb comb. & CoKg. scientific & Tech. supplies, Germany	88 067.20 Karl Kolb comb. & CoKg. scientific & Tech. supplies, Germany			Metric			Telco				

			TOTAL AWASSA	Contingencies 5 %	TOTAL LIBRARY		_	2	2	_	2	2						_				5	2	10		500	1000	_	LIBRARY	
			VASSA	icles 5 %	RARY	4 Book binding knives	10 Linen Thread	20 Leather grained texture covers	20 Transparent front cover	10 -1.5	20[-1	20]-3/4	19-nng binding apines	1 Binding system machine	2 Brace edge boards	2 Book press	1 Cutting Machine for book edge (electrical)	0 Paper catridge	4 Replacment lamp for microtiche reader/printer	1 Microfiche reader/Printer	5 Brushes	5 0 Cloth tapes	0 Magic-Mend (glue)	00 Date due Slips	5 Spine labels	5000 Book Pockets (Gummend)	10000 Book Cards	10 Continuos, computer Catalogue Cards		
-																						_								
						Birr	Burr	s	s	<b>~</b>	s	<b>~</b>		•	s	S	s	s	s	•	Bırr	S	Bırr	Bırr	Bırr	Вит	Bırr	•		
						50 00	55.00	21.75	37 50	17 25	11.90	20.00		355.00	30.00	84.00	985.00	36.00	20 00	6 599 00	10.00	20 00	70.00	15.00	40.00	0 32	0.19	22 40		
						200.00		435 00			238.00	400.00		355.00				L	80.00		50.00	_	_	_	ĺ	_	1 900 00	224 00		
			1 737 503.50	52 493.31	84 666.79	211.47 Local						2 596 80 Gaylords		2 304 66 Gaylorda						42			_	_				) 1 454.21 Gaylords		
						Local	Local	Gaylords	Gaylords	Gaylords	Gaylords	Gaylords		Gaylorda	389.52 Gaylords	090.66 Gaylords	Gaylords	Gaylords	519.36 Gaylords	Gaylords	Local	Local	Local	Local	Local	Local	Local	Gaylords		



**BLACKWELL'S** 





PROFORMA NO **02097036** 

ACCOUNT NO 11802898 000

Please quote invoice and account numbers on all correspondence

DATE
19-Oct-1994

STOMER REFERENCE	
31 OMER RELERENCE	

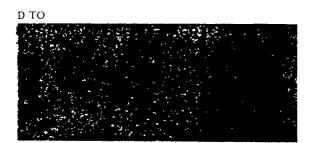
			19-0c	t-1994
S ESSENTIAL THAT THIS INVOICE IS RET mpt payment is advised as prices are liable to b			N.KR	£
11 15		11-Oct-1994		
Family health care HRK 0803947488	3 6	£ 33.50	1098.48	100.50
Women in Rural Development: C	ritical Issu	11-Oct-1994 es PBK		
(WEP studies) 9221023885	2 &	£ 5.50	120.24	11.00
03 15 Household income and expendit (International Labour Offi)	ure surveys	11-0ct-1994		
9221077527	1 @	£ 15.40	168.32	15.40
04 15 Ebrahim, G.J. Practical Mo Developing Countri - 4 ed. 0333523296	other and Chi PRK	11-00-1494. ld Mealthair A10.50	344.31	21 50
<b>05</b> 15		11-0ct-1994	344.31	31.50
Goodhart, Robert S. Modern disease - 6E	on i	n health and		t
0812106458	3 6	£ 36.30	1190.28	108.90
06 15 Loutfi, Martha F. Rral Wo Development PBK	men: Unequal	11-Oct-1994 Partners in		
9221023893	1 2	£ 6.80	72.14	6.60
87 15 Myrcolt, Anne Sociology of	food & esti	11-Oct-1994		
956005808	3 6	£ 22.50	737.79	67.50
Null, Gary The complete gu	ide to healt	11-Oct-1994 h and		
nutrition 0851406556	3 6	£ 14.95	490.20	44.85
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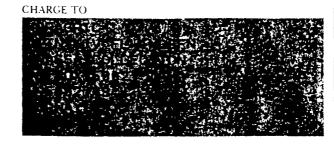
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3 0	15 Papalia, Diane F. Child's Wo Adolescence - 6 ed., Internat	orld: Infan tl. PRK	11-Oct-1994 ncy Through		
	0071129138	36	£ 19.35	654.15	59.8
11	15 Smith, V. Kerry Explorations economics	s in natura	11-Oct-1984 al resource		
12	0801827132	3 @	£ 09.00	950.91	87.0
	Symposium on nutrition & agricultural development 0306365073	ulture A	1 Oct-1994 Metrition £ 24.89	816.15	74.6
13	15 Taylor, R.J. Food Mditto Environmen)	PBK (Ins	11-Oct-1994 stitution of		
	0471276839	3 6	£ 8.95	293.46	26.8
14	15 World Halth Org. Community Maternalian: An Analysis Rased	Participat PBK	11-0ct-1994		
	3241531351	2 @	£ 4.50	98.38	9.01
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6 16 Berg, Alan Malnutriti lessons from World Rank publication)	on: what can be d PRK (A World Ra			
0801835534	2 <u>6</u>	£ 17.48	382.12	34.9
7 16 Dixon-Mueller, Ruth W Agricultur: Concepts and developme)				
9221051072	1 @	£ 8,80	96.18	8.8
<pre>8 16   Fenton, Thomas P. Wom   Directory of Resources</pre>		11-062-394. orld:		
0883445391	1 @	£37.95	86.89	7.9
9 17 Internal combustion engi		11-Oct-1994		
012059790X	5 g	£ 49.50	6492.48	594.6
3 17 Barger, E.L. Trictor ed. HBK	and Their Power	11-Oct-1994 Units - 4		
0442258976	30 Q	£ 51.90	16722.90	1530.6
1 17 Callister, William D. Erginvering: An Introduc	Materials Scienc tion - 3 ed., I	11-Oct-1994 e and nternatl.		
W5685	12 B	£ 21.95	2878.92	263.4
•		C'FWD	35173.46	3218.0



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	6471551929 12 8 £ 62.	8131.92	744.00
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	0070157901		5 <b>0</b> @	£ 51.95	28390.50	2597.5		
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	0070250030	110001000	30 8	£ 1.5	3771.00	345.0		
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3	18 Lambe, T.William PBK (Soil Engine	Soil≪Mech	nanies - In	11-Oct-1994 ternatl. ed.				
	0471022616	1 DI	7 @	£ 20.50	1568.49	143.5		
4	18 McPherson, Google		ction to fler					
	Machine and Fra 0471517348	nstormers -	2 ed., inte 30 d	rnatl. PBK $oldsymbol{\mathcal{E}}$ 20.50	6722.10	615.0		
5	othero, Glenn O. Empineering -	Soil and	Water Conser	11-Oct-1934 vation				
1	0471599948	4th internati	7 G	£ 16.35	1236.82	118.6		
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	0064601013	30 @	£ 5,95	1950.90	178.50
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	1851665560	12 @	¥ 65.99	8525.40	780.00
39	19 Barford, N. C. Experimental (precision, error and truth)	measurem	1 0ct-1994		
	0471907022	IM .	£ 10.50	114.77	10.50
40	19 Roresi, Arthur Peter Advan	ed mechanic	11-0ct-1994 cs of		
	materials - 5th 6 Hb 0471551570	1 @	£ 76.90	830.68	76.00
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	0070296669	1 8	£ 42.95	469.44	42.9
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	0412445204	1 8	£ 14.95	163.40	14.9
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8	19 Montgorry, Duglas		11-Oct-1994		
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1	947151994x	1 @	£ 21.50	235.00	21.5
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	0070459037	1 8	£ 11.95	130.61	11.9
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51	19 Sherwin, Keith PBK	Introduction	to thermo	11-Oct-1994 odynamics		
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	science and engine 0471935719	ering PBK	1 @	¥ 61.35	239.91	21.95
53	20 Elements of agricu 12 su 9251004013	ltural 1977 ma	aching	1 Oct-1994 ol. II, £ 16.50	180.35	16.50
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Crouse, William H.	Automotive Mechanics	11-Oct-1994 s - 10 ed.		
0028009435	1 @	£ 31.95	349.21	31.9
Hunt, Donnell Fa	arm power and machinery	11-Oct-1994 management		
- 8th PBK 0813805805	1 8	£ 17.45	190.73	17.4
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		V: 65 . 25	242.86	22.2
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erosion mechanics 1857280067	1 Q	£ 60.00	655.80	60.0
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0317286196	1 @	£ 94.75	1035.62	94.7
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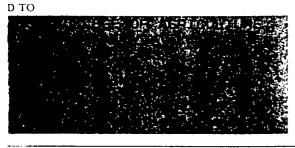
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1851665560	1 Q	£ 85.90	710.45	€5.0
55 20 Zbar, Paul R Rasi Manual - 6 ed. PBK	c Flectricity: A Text	11-Oct-1994 -laboratory		
0070728615	1 @	£ 16.95	185.26	16.9
66 21 Strain gage users' ha 1851656863		11-0ct-1994		
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0853344159	1 0	£ 84.80	918.12	84.0
69 21 Childs, Dara Turbo Phenometa, modeling a	. <b>F</b> wachinery rotordynawi nd ana HBK	11-0c+-1994 cs:		
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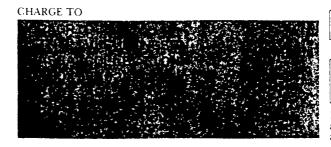
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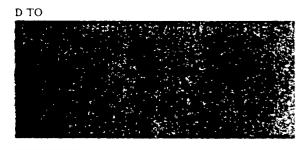
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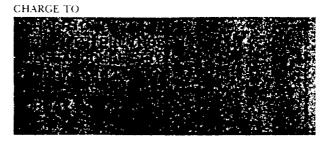
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2 21		11-Oct-1994		
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0471939277	1 @	£ 45.00	491.85	45.9
3 21		11-0ct-1 <b>96</b> 4		
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	1 @	£ 168.33	1839.85	168.33
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9251030766	1 @	£ 18.75	204.94	18.75
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3471020176	1 8	£ 2.75 d.	136.63	12.50
81 22 Bannister, Brian Roy and interfacing - 2nd		transducers		
0412342405	11/9	£ 14.99	163.84	14.99
82 22 Rolton, William Fngin control: (4) PBK	ering instruments	11-Oct-1994 stion &		
0408004622	1 8	£ 8.50	92.91	8.50
	Materials Science tion - 3 ed., Ja	11-Oct-1994 e and nternatl.		
94 138 685	1 @	£ 21.95	239.91	21.95
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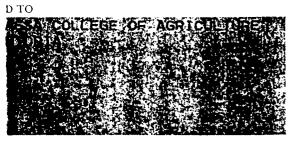
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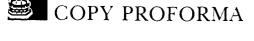
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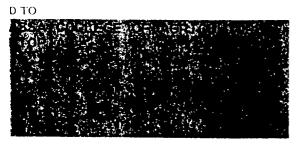
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0471592749	1 @	£ 19.95	218.05	19.9
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0903031663	1 @	£ 6.95	75.96	6.9
4 23		11-0ct-1 <b>28</b> 4		
Marquand, C Thermofluid	s: an integrat	ed approach		
to thermodynamics an PBK 0471941840	1 @	9.35	218.05	19.9
5 23	4	-9ct-1994		
Munson, Bruce R. Fundame ~ 2 ed., Internatl. PBK	ntals of Nurd	Mechanics		
0471305855	11/9 2	£ 19.95	218.05	19.9
6 23 Sasse, L. Riogas Plants	DOV.	11-Oct-1994	<u>.</u>	
3528020040	1 @	£ 10.85	118.59	10.8
7 23		11-0ct-1994		
Strefford, John Woodwork and Colleges PBK	Technology fo	or Schools		
872174001	1 @	£ 4.55	49.73	4.5
8 4 Numbulic Engineering Softw HB	are - 4th. [	11-Oct-1994 d. W. R.		
1851668527	1 (3	£ 240.90	2623.20	240.00
		C'FWD	146573.11	13410.1





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B'FWD NO OF ITEMS 40 3 24  Hydraulic structures HBK 0045270051 1 0	11-Oct-1994	146573.11	13418.1
dydraulic structures HBK	11-0ct-1994		
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	£ 75.00	819.75	75.0
3 24	11-0ct-1994		
World soil erosion and conservation HRK studies in appl)	(Cambridge		
0521419670	£ 55.00	801.15	55.0
l 24 Soil conservation for survival	11-0ct-1994		
0935734279 1 @	£ 23.5	261.99	23.9
24 Chow, Ven Te Open-channel Hydraulics Internatl. ed. PBK (Civil Engineg.S.) 007085906X	# -0ct-1.94 £ 16.95	185.26	16.9
Engineering Applications 8 e PRK	11-Oct-1994 with (ISE)		
997100405X	£ 16.95	185.26	16.9
1 24 King, Horace William Handbook of Hydr ed. HBK	11-Oct-1994 raulics - 6		
097007234	£ 85.35	939.43	85.9
24 Ogris Henry M. Applied Hydraulics in	11-Oct-1994 Fingineering		
8826063055 1 @	£ 72.00	786.96	72.8
	C'FWD	150352.91	13755.9

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	R'FWD NO C	OF ITEMS 46	57	150352.91	13755.99
ମଧ	24 Streeter, Victor L. Fluid 8070665788	Mechanics -	11-Oct-1994 8 ed. PBK £ 17.95	196.19	17.95
97	24 Terzaghi, Karl Soil Mechae Practice - Internatl. ed.		11-Oct-1994 neering		
	п471852813	1 8	£ 21.95	239.91	21.95
68	24 White, Frank M. Fluid Meck 0071137653	hanics - 3 1 @	11-Oct-1994 ed. PRK £ 29.9	228.98	28.95
ð9	25 The design and construction of foundations - 2nd ed. 0412125307	of engineeri	F 94.00	1027.42	94.00
10	25 Design and operation of family 0916150283	irligation:	11-Oct-1994 system HBK £ 44.06	481.58	44.06
11	25 Groundwater irrigation and the		11-Oct-1994 ions for		
	rural de (A Norld Bank sympe 0821324012	1 0	€ 17.36	189.74	17.36
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14	(1314483	1 @	£ 11.19	122.31	11.19
	•		C'FWD	152839.94	13983.45

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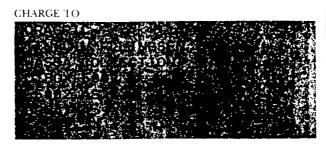
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3 25 Bromhead, E N The stability of slopes - 2nd ed - 2nd ed HBK		
0216931754 1 <b>Q</b> £ 69.00	754.17	69.86
125 Fredlund, Delwyn G Soil mechanics for unsaturated soils HBK		
047185008X 1 Q £ 70.00	765.10	70.00
Scott, Charles Robin An introduction to soil mechanics and foundations - 3rd edition PBK		
041916040X 1 Q £ 29.86 5 28 1 Oct-1994	316.97	29.00
Hydraulic Engineering Software - 4h. F. R. HBK $\pounds$ 240.00	2623.20	240.00
7 26 Davis, Malcolm How to make low-cost building blocks: stabilized soil lo PBK		
blocks: stabilized soil to PBK 1853390860 1 $\mathfrak{L}$ 5.95	65.03	5.9
R 26 11-Oct-1994 Ferguson, Phi Moss Reinforced Concrete Fundamentals - 5 ed., Internatl. PBK		
0.1 1636940 1 Q £ 21.50	235.80	21.56
Hawk, Minor C. Descriptive Geometry PRK (Schaum Outline S.)		
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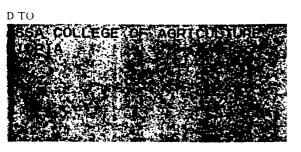
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9	26 Houben, Hugo Earth Co Guide PBK (Encyclopedia	a of Farth Con)			0.5
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3	26 West, Harry H. Fundam - Internatl. ed. PRK 0471599719	entals of Staucku	1-Dct-1994 21 Analysis £ 21.95	239.91	21.9
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9.6	*O',		11-Oct-1994		
1	Oproductive versatility 052138060X	in the grasses (	+BK £ 42.50	464.53	42.5
			C'FWD	159875,77	14627.2

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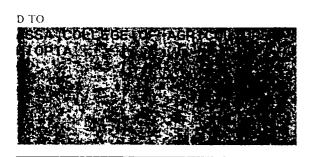
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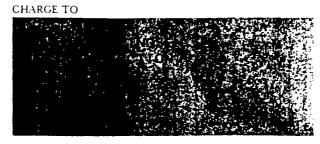
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8 0		l Research Council quirements of rumi		11-Oct-1994 The nical review		
	P8K 9851986196		1 @	£ 36.50	398.95	36,50
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		he report of the B			623.01	57.96
3 9	28 Chesworth, 0333570731	John Ruminant n	utritin AR	1-0ct-1994 K £ 5.99	65.47	5.99
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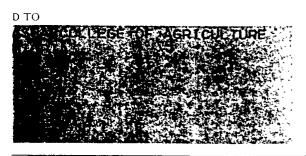
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3.4	29 Black's veterinary dictional edition HBK	ory - 17th -	11-Oct-1994 17th		
	0713636009	1 @	£ 13.99	218.49	19.39
35	29 Manual of tropical veterina	· · ·	11-Oct-1994 y PRK		
	985198584X	1 @	£ 41.50	453.69	41.50
38	29 Small-scale food processing equip PRK	g: a guide to a	11-Oct-1994		
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37	29 Adjare, Stephen The gold beekeeping for beginners - 0946688605	den insect: a - [2nd e/1] F 1 3	$1.0 \pm 1994$ and took on £ 5.95	65.83	5.9
8	behaviour, management and a	try production HBK	11-Oct-1994 systems:		
	8851987974	1 @	£ 40.00	437.28	40.9
3 3	Dav, Robert A. How to wr	ite & publish	11-Oct-1994 a scientific		
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5	Number, Josef Traditions introduction PBK	al cheesemaking	11-Oct-1994 e: an		
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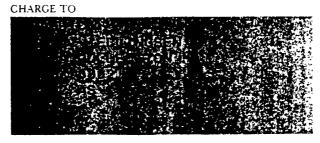
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1 29 Gordon, R.F. Poultry diseases 0702013390	s - 3rd 1 (d	11-Oct-1994 ed. HRK £ 24.95	272.70	24.99
2 29 Hall, Harold Thomas Barnes Di of livestock in the tropics - (Intermediate tropical agr)	iseases a 2nd ed	11-Oct-1994 nd parasites PBK		
0582775140	1 0	£ 12.50	136.63	12.5
3 29 Sainsburv, David Poultry heachickens, turkeys, ducks, - 3r 0632033258	alth and ded - 1 0	11-Oct-1984 management: 3 ed. PBK	196.63	17.99
4 29 Stevens, lewis Genetics and a domestic fowl HBK 0521403170	volunio	1 Oct-1994 fine £ 50.00	546.50	50.0
5 30 Modern dairy technology: Advance	es in will	11-0c+-1994	340.50	30.0
- Vol.1 - 2nd ed HRK 0412535203	1 @	£ 85.00	929.05	85 <i>.0</i>
6 30 Whey are lacture processing		11-Oct-1994		
Whey and lacture processing 1851287539	1 Q	£ 79.00	863.47	79.0
7 0 Alvo ced dairv chemistry: Protei Hok	ins - 1	11-Oct-1994 : Proteins		
185166761X	1 હ	£ 135.80	1475.55	135.00
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48 30 Feeding dairy cows: the tr 9251030294	opics PBK 1 @	11-0ct-1994 £ 11.50	125.70	11.50
49 30  Reef cattle production HB environmental )	K (Studies in	11-Oct-1994		
0444889841	1 @	£ 181.99	1989.15	181.99
50 30 Berg, J.C.T. van den St development in the tropics 9022010058			178.16	16.30
51 30 Butterworth, M.H. Beef tropical p: a descriptive 929053057X	cattle product bib	£ 13,60	148.65	13,66
52 30 Chamberlain, Anne Milk PBK	croduction in t	11-Oct-1994 the tropics		
0582775132	1 @	£ 9.50	103.84	9.5€
53 30 Food & Agriculture Org. Technology for the Process	Handbook of Ruing of Anim PE			
9251-029095	1 @	£ 7.50	81.98	7.50
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*(Animal Production & Healt 9251029210	1 8	£ 10.00	108.30	10.00
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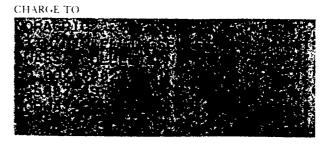
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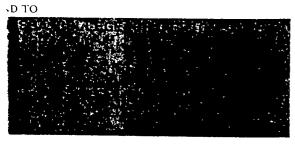
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Pagot, Jean Animal production in the tropics Pak	
0333538188 20 B £ 4.99 3276.	299.8
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Nutrient Requirements of Dairy Cattle 1 6 et. PBK 030903826X 10.00 £ 14.95 1634.	00 149.5
6 32 11-Oct-1994	
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7 32 Technology of traditional milk products in developing C (Animal production and hea)	
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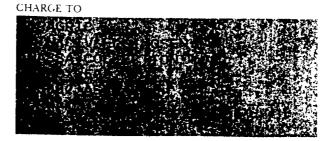
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B'FWD NO	OF ITEMS 6	39	209250.95	19144.6
32 Berg, Van Den J.C.T.  tropics and subtropics HBK	y technology	11-Oct-1994 in the		
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3 32		11-Oct-1994		
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0851989322	38	€ 125.00	4098.75	375.0
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33	1 0	£ 37,50	409.88	37.5
	ontrol by nat	11-Oct-1994 Tural enemies		
0521391911	1 Q	£ 42.50	464.53	42.5
Dent, David Insect pest m	anagement PR	11-Oct-1994		
8 198 676	1 8	£ 24.50	267.79	24.5
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0471817821	1 <u>Q</u>	£ 59,00	644.87	59.0
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B'FWD NO (	OF ITEMS 69	1	229878.52	21031.90
77 33  Hill, Dennis Stanley Pests  tropical crops - Vol. 2: I  tropical agr)				
0582606152	15 Q	£ 14.25	2336.25	213.75
78 33 Matthews, G.A. Application protection HBK	n technology	11-Oct-1994 for crop		
0851988342	2 @	£ 55.80	1202.30	110.00
79 33 Matthews, G A Pestic - 2nd ed - 2nd edition Pi 0582409055	cide applicat BK 1 @	11-Oct-1994 ion methods 4 13:39	218.49	19.99
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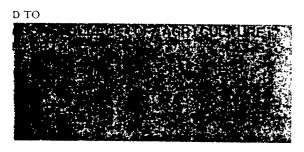
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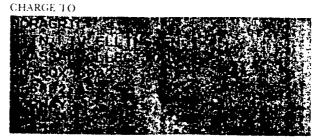
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Agrios, George N. Plant Pathology - 3 ed. HRK 0120445638 15 @ £ 38.00  25 34 11-Oct-1994 Campbell, C. Lee Introduction to Plant Disease Epidemiology 0471832367 1 @ £ 82.00  26 34 11-Oct-1994 Dropkin, Victor H. Introduction to plant nematology - 2E (A Wiley-Interscience publ) 0471852686 1 @ £ 50.00  27 34 Elzinga, Richard J. Fundamentals of betomology - 3rd ed HRK 0133382036 1500 £ 59.30  28 34 11-Oct-1994 Holliday, Paul A dictionary of plant pathology PBK 0521424755 1 @ £ 15.95	896.26	82.0
Campbell, C. Lee Introduction to Plant Disease Epidemiology 6471832367 1 @ £ 82.80  86 34 11-Oct-1994 Dropkin, Victor H. Introduction to plant nematology - 2E (A Wiley-Interscience publ) 6471852686 1 @ £ 5.86  87 34 illott1994 Elzinga, Richard J. Fundamentals of retomology - 3rd ed HBK 6133382036 15 @ £ 59.96  88 34 11-Oct-1994 Holliday, Paul A dictionery of plant pathology PBK 6521424755 1 @ £ 15.95		
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Elzinga, Richard J. Fundamentals of Potomology - 3rd ed HBK 0133382036		
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Holliday, Paul A dictionary of plant pathology PBK $0521424755$ 1 $@$ £ 15.95 $11-0$ ct-1994	9820.65	898.5
Holliday, Paul A dictionary of plant pathology PBK 0521424755 1 @ £ 15.95  9 34 11-Oct-1994		
9 34 11-Oct-1994		
	174.33	15.9
Jones, David Gageth Plant pathology: principles		
and practice PBK		
0136897697 3 @ £ 22.45	736.14	67.3
9 4 11-Oct-1994 Inner, David Gareth Cereal diseases: their pathology and control - 2nd ed		
0471105015 1 0 2 110.00	1202.30	110.0
C'FWD 25	54787.89	23310.8





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	B'FWD NO	D OF ITEMS 75	9	254787.89	23310.89
1 :	34 Matthews, Richard Ellis For virology HBK	rd Fundament	11-Oct-1994 als of plant		
6	0124805582	1 ලි	£ 41.00	448.13	41.86
2 3	34 Sherf, Arden F Vegetah) control - 2nd ed.	le diseases and	11-Oct-1994 their		
	047105860?	1 Q	£ 68,00	743.24	68.06
3 3	34 Sigee, D - C - Bacteri and molecular aspects - HBK	ial plant patho	11-Oct-1904 logy: cell		
•	0521350646	1 @	£ 80.00	546.50	50.00
4 3	34 Thurston, H.D. Tropical 0890540632	plant distasts	£ 17.40	190.18	17.48
5 3 1	35 Insects and arachnids of and - 2nd ed PRK .	oppical stor: t	11-Oct-1994 heir biology		
6	859542823	2 0	£ 35.75	781.50	71.56
S 3	volution of in ect pests:	patterns of va	11-Oct-1994 riation HBK		
6	3471690376	1 (3	£ 85,00	929.05	85.08
7	35 Nickmin, Roger L Aphids Sphilfication and inform	s on the world'	11-Oct-1994 s crops: an		
0	1471904260	1 &	£ 95.00	1038.35	95.40
			C'FWD	259464.84	23738.79

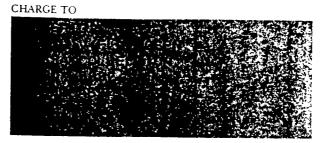
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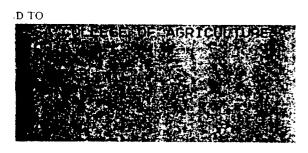
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8 35  Krebs, Charles Joseph Ecology: the experimental analysis of distribution and ab - 3rd ed.  8 36 12 05 1 0 5 19 05		
1 @ £ 18.95	207.12	18.9
11-0ct-1994 LaSalle, J. Hymenoptera and biodiversity HBK 835198830X 1 @ £ 49.50	541.94	49,5
35 Singh. S.R. Insect Pests of Tropical Food Legumes,		
НВК и471923907 1 @ £ 2.5	792.43	72.5
Smith, Charles Michael Plant resistance to insects 0471849383	403.8G	36.9
Southwood, Richard Ecological methods: with particular reference to the study - 2nd. ed, rev PBK		
0412307103 1 @ £ 24.99  35  Workshop on the Ecological Foundations of The	273.14	24.9
Identification and characterizatio: proceedings of the		
085191904g 1 G £ 49.95	545.35	49.9
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0851987095 1 @ £ 30.90	327.90	30.39
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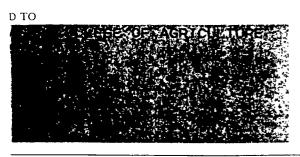
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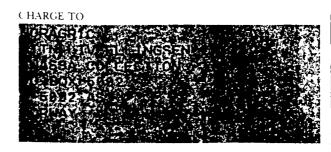
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B'FWD NO	OF ITEMS 76	5	262556.28	24021.6
5 36		11-Oct-1994		
Herbicide bioassays HBK 0849366038	1.0			
0043300036	1 <u>@</u>	£ 92.00	1005.58	32.0
6 36		11-Oct-1994		
Tools for organic farming Pine 1853390097	BK 1 0	£ 8.35	75.96	
100300001	1 (0	1, 6,55	75.50	8.9
7 36		11-Oct-1994		
Ashton, Floyd Milton Weed practices - 3rd ed HBK	science: pri	nciples and		
0471600849	100	£ 68	7432.48	680.0
8 36		M-0c+-1944		
Ashton, Floyd M. Mode of . 2E	action of her	for design		
047104847X	14 Qu.	£ 73.00	797.89	73.0
3 36	16/10	11-0ct-1994		
Cobb, A. Herbicides and P		= -		
0412438607	<b>9</b> 1 <b>8</b>	£ 17.93	196.63	17.9
36	•	11-Oct-1994		
Food & Agriculture trg Co	ommon Weeds o	f East		
9250024266	1 &	£ 5.00	54.65	5.0
1 36		11-0c+-1934		
Lavabra, Minile M. Weed con	ntrol P8K			
31,354,1498	10 0	£ 5,39	654.79	59.9
38		11-0ct-1934		
Paull, R.E. Insect pests a p: treatments and re HRK	and fresh hor	ticultural		
9851988725	1 63	£ 49 85	545.95	48.3
		C1FWD	73329,92	25006,40

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B'FWD NO	<u></u>	<u> </u>	273320.02	25006.4
•		, <u>.</u>	73020.02	7,3000.4
36 Radosevich, Steven R. Weed for vegetation management	d ecology: im	11-Oct-1994 oplications		
9471876747	1 (3	£ 63.00	688.59	63.0
36 Silvertown, Jonathan W. I		11-Oct-1994 to plant		
population ecology - 2nd ec 0582447011	d PRK 1 @	£ 16.99	185.78	16.9
36		11-0ct-1 <b>2</b> \$4		
Tan, Kim H. Principles of HBK (Books in Soils,Plants & 082478989X			14801.40	1354.2
36	4	Oct-1394		
Tarbuck, Edward J. The Par physical geology 0675200512	rth: an other	£ 17.50	101 28	18 6
36	110	7-0c+-1994	191.28	17.5
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0412018616	1 8	- 54.00	590.22	54.0
37 Two methods of soil fertility		11-Oct-1994		
Two methods dispoil fertility	y testing: ag 1 (d	grodoc ? £3.50	38.26	3.5
37	- 1- 0	11-Oct-1994		
repartion and use of compos	st: Agrodoc 8 1 @	£ 3,50	38.26	3.5
		C'FWD	289853.73	26519.1

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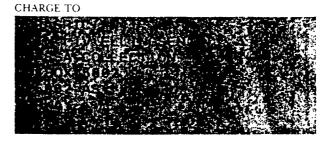
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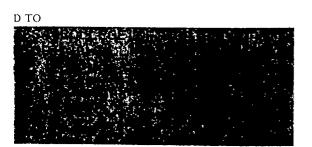
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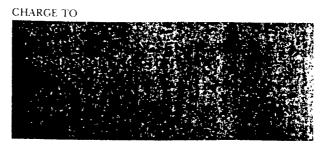
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9747614472	30 @	£ 20.86	6872.79	528.8
21 37 Methods of soil analysis	- Part 2 HRK	11-Oct-1994		
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Methods of soil analysis		11-0ct-1994		
0891180729 23 37	1 @	£ 25.00	273.25	25.ค
Ahn, Peter Martin Tro use PBK (Intermediate t 0582775078		£ 9.50	3115.20	285.0
24 37		11-Oct-1994		
Black, C.A. Soil Ferti HBK	listy Elabyation a	and Control		
0873718348	1 @	£ 52.50	573.83	52.5
5 37 Brandjes, Picter Freen soil improvement in t PB	manuring and oth     K	11-Oct-1994 her forms of		
9072749363	1 @	£ 10.42	113.89	10.4
6 37  Calter M. Correlation S.P. Bentley and M.	s of soil propert	11-Oct-1994 ties: bv		
0777303171	1 @	£ 28.50	322.44	29.5
		e⁴F₩D	301398.29	27575,3

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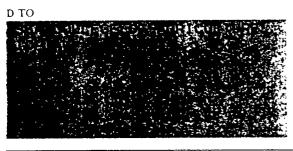
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27 <b>37</b> Foth, Henry Donald Fu 8th ed PBK	ndamentals of soi	11-Oct-1994 1 science -		
0471529958	30 G	£ 16.95	5557.80	508.50
R8 37 Klute, Arnold(ed) Met (part.1:physical & miner: (Agronomy,no.9,part 1)	hods of soil anal alogica - 2E	11-Oct-1994 ysis:		
0891180885	1 @	£ 55.93	611.31	55.83
29 37 Marschner, Horst The option PBK 012473541X	mineral nutrition 30 8	11-Oct-1991 of himsty	9184.79	838.56
0 37 Mengel, Konrad Princi 4th edition new re 3906535037		1-Oct-1994 rition - £ 39.93	13092.99	1197.9
1 38 Tropical Root Crop Fra Sy PBK	untion and Uses	11-0ct-1994	13032.11	1137.3
0889364095	20 @	£ 7.50	1639.60	150.00
2 38  Prevention of post-harve:  vesetable P8K	st food losses: f	11-Oct-1994 ruits,		
211021668	1 &	₺ 9.58	103.84	9.50
Food & Agriculture Org. at the Country Level: An 9251029555	Micronutrient Inter PBK (Soi 1 @	11-Oct-1994 Assessment Is Bulletin) £ 9.50	103.84	9.56
		('FWD	331672.28	30345.16







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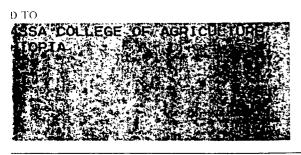
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34	38 International Institute of Troin Tropical Africa: a reference		11-0ct-1994 Cassava		
	9781310413	1 @	£ 15.75	172.15	15.75
35	38 Loomis, R. S. Crop ecology:	: productivi RK	11-0ct-1934 ty and		
	management in agricultural PR 0521387760	1 @	£ 22.95	250.84	22.95
36	38 Mitra, S.K. Nutrition of ve	egetable cro	11-0ct-1944		
	8185109982	1 8	£ Co	228.76	29.93
37	38 Splittstoesser, Walter E. Nandbook: organic and tradition HBK 0442239718		1 0 1994 pwing rd ed £ 41.50	9072.00	830.06
38	38	M. S. S.	11-0ct-1934	30,21,03	000,00
	Tindall, H. D. Vege ablast (Science in hortical ture) 0333242688	in the Tropi 20 0	CS PRK £ 30,00	6558.09	609.01
.39	38		11-Oct-1994		
	Tisdalar Samuel Futher Soi fertilizes 4th ed.	l fertility	and		
_	nac 4205300	30 0	£ 51.95	17034.38	1558.50
1	Williams, C. N. Vegetable	production i	11-Oct-1934 in the		
	Ptropics PBK 0582606098	20 ij	£ 3,50	2076.80	190.0
			C'FWD	367065.13	33583.2

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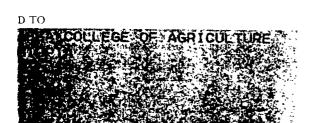
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B'FWD NO	OF ITEMS 109	8	367865.13	33583.29
41 39 Horticultural reviews - V 0471573396	ol.14 HBK 2 @	11-Oct-1994 £ 67.00	1464.62	134.00
42 39	2 10		1404.82	134.00
Spices - Vol.1 (Tropica 0582468116	l agricultural 2 @	11-Oct-1994 ser) £ 40.00	874.48	80.06
43 39		11-Oct-1934	;	
Introduction to tropical ag M582643902	riculture PBK 1 @	£ 16.25	177.61	16.25
44 39 Transport of fresh fruit an of a 0949511641	nd vegetable: p	11- ct-1934.s processus ngs) & 0.55	2306,29	211.00
15 39 Asiedu, J.J. Processing		11-Oc+-1994 s: a	2300,20	211.00
technological approach - 0333547241	ELBS edition 20 @	£ 1.80	393,49	36.0
16 39 Ronheure, Denis — ea PBK		11-Oct-1994		
0333544501	20 @	£ 5.99	1309.40	119.8
17 33 Burtan, William Glynn Th	ne Potato - 3	11-Oct-1994 and ed		
0582482230	1 @	£ 64.00	699.52	64,00
Combrony. H. Coffee Grow	uing PBK (Tro	11-Oct-1994 Opical		
*Aqriculturalist ) 033354451X	2 <b>8</b>	£ 5.99	1389.48	119.80
		C'FWD	375599 68	34364,14

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9 33 - Coste, Rene - Coffee: t - PBK	the plant and the	11-Oct-1994 product		
0333572963	<b>50</b> (9	£ 14.89	3276.80	299.86
0 39   Lindsev, K. Plant Biot   PBK (Biotechnology serie	cechnology in Agr	11-Oct-1994 iculture		
9471932388	1 ලි	£ 20.95	228.98	20.99
<pre>1 39   Preece, John F. The hi   introductory textbook HE</pre>	ology of hortice	11-Oct-1984 lture: an		
0471059897	1 @	¥ 8.95	316.42	28.95
2 39 Weishchet, Wolfgang T constraints of tropical a 0582056926	he persistica c gric HRK	£ 25.00	273.25	25,86
3 39 . Woolfe, Jennifer A	real inotato: an u	11-Oct-1994 ntapped food		
0521402956	1 8	£ 70.00	765.16	70.98
4 39 Wrigley Gordon Coffee series	(Tropical agri	11-Oct-1994 culture		
8582488598	50 Q	£ 64,60	13990.48	1280.98
Fruit and vegetable oroce	ssing PRK	11-0ct-1394		
1853391352	2 ନ୍ୟ	€ 6,95	1519.20	139.00
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6 40 Root crop processing PRK		11-Oct-1994		
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7 40 Post harvest and processing compe	) technologi: >	11-Oct-1994 s technical		
9251030766	1 <u>8</u>	£ 18.75	284.94	18.7
3 40 Roots, tuhers, plantains ar nutrition (FAO food and nu	nd bananas in b	11-Oct-1994		
9251028621	1 8	£ 2.5	136.63	12.5
3 40 Fellows, Peter Appropria 9070857286	ate food packad	ing IRK £ 19.55	213.68	19.5
7 40 Food & Agriculture Org. Consumption in Developing Production & Develo)	puntr <b>a</b> PRK (	11-Oct-1994 zion and Plant		
9251030723	1 8	£ 5.50	60.12	5.
Hay, Robert K N. An intro of crop Vielo PRK	nduction to the	11-Oct-1994 Physiology		
0582468683	1 @	£ 18.39	207.56	18.
Ride, Adel A. Postharve horticultural crops - 2nd California, Divi)				
0931876990	1 @	£ 48.89	525.82	48.
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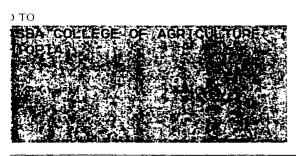
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Hansen, Richard Perennials and their garden habitats - 4th ed HRK 0521351944
2 41 Lea, P.J. Plant biochemistry and molecular biology PBK 0471933139 2 @ £ 9.96 436.10 39  41 Pice, Robert P. Fruit and vegetable industion in warm climates PBK 0333468503 £ 16.99 1857.00 169  4 41 Samson, Jules A Tracical Scuits - 2nd ed (Tropical agricult e 6) 0582404096 30 @ £ 45.60 14952.30 1368
Lea, P.J. Plant biochemistry and molecular bioldy  PBK  0471933139  2 @ £19.96  436.10  39  341  Pice, Robert P. Fruit and vegetable production in  warm climates PBK  0333468503  4 11  Samson, Jules A Troical Scuits - 2nd ed  (Tropical agriculties in 6582404096  30 @ £45.60  14952.38  1368
3 41 Rice, Robert P. Fruit and vegetable reduction in warm climates PBK 0333468503  £ 16.99  11-Oct-1994  Samson, Jules A Troical Fruits - 2nd ed (Tropical agricultie sei) 0582404096  30 @ £ 45.60  14952.38 1368
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Pulses and veretables (Underutilized crops serie)
9412466194 2 Q £ 49.99 874.49 89
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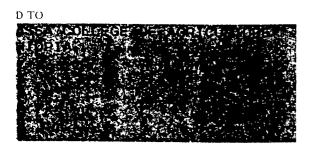
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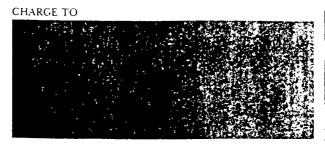
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B'FWD NO	OF ITEMS 135	4	438655.71	40133.22
Fosket, Donald E. Plant G Molecular Approach HBK		11-Oct-1994 elopment: A		
Ø122 <b>624300</b>	2 @	£ 38.00	830.68	76.80
78 42 Fowler, Jim Practical sta	tistics for f	11-Oct-1994 ield biology		
8471932191	2 @	£ 14.95	326.80	29.30
73 42 Gomer, Kwanchai A. Statis				
Agricultural Research - 2 0471879312	ed., Internat 15 @		3598.65	329.25
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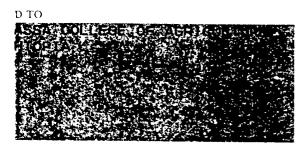
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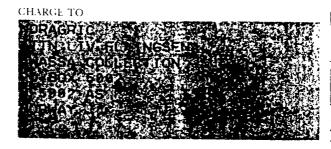
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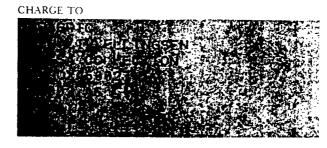
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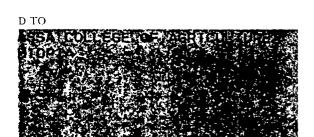
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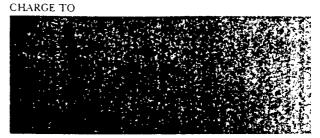
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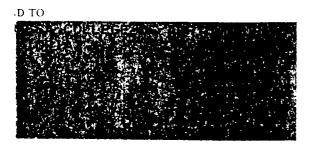
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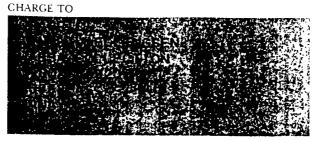
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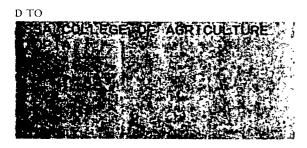
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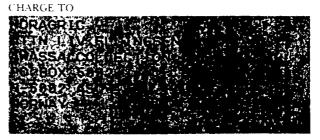
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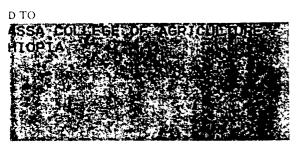
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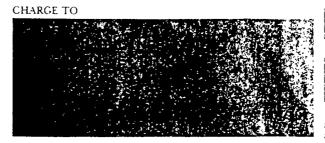
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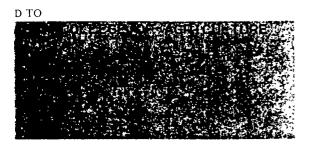
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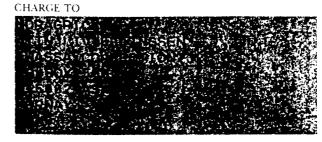
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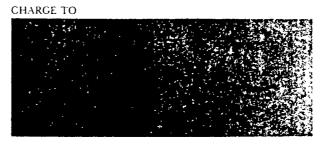
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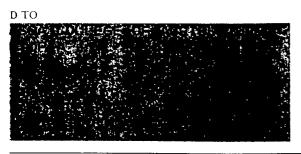
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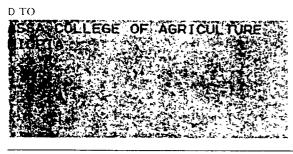
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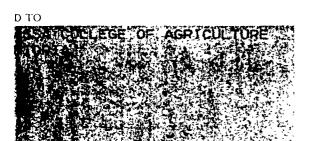
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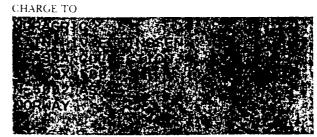
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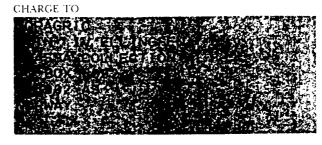
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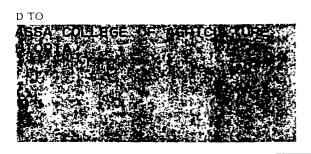
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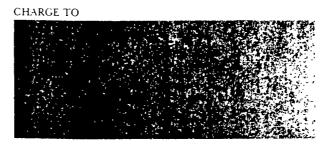
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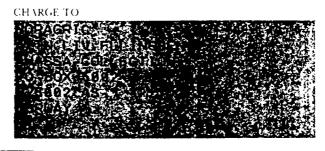
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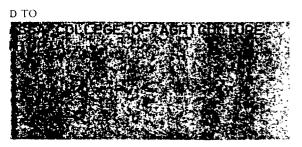
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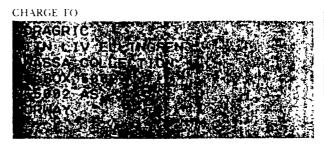
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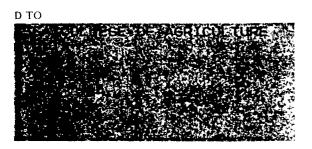
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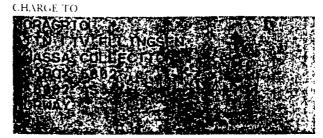
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7	- 2nd ed PBK	,			
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	n, Floyd J. The S ns, dyes and indicat		11-0ct-1984 book of		
	633225	1 Q	1 Oct-1994	585,52	53.5
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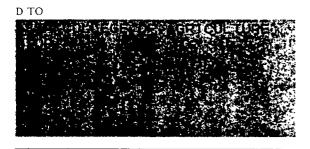
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	0023042238 1 0 £ 45.95	502.23	45.9
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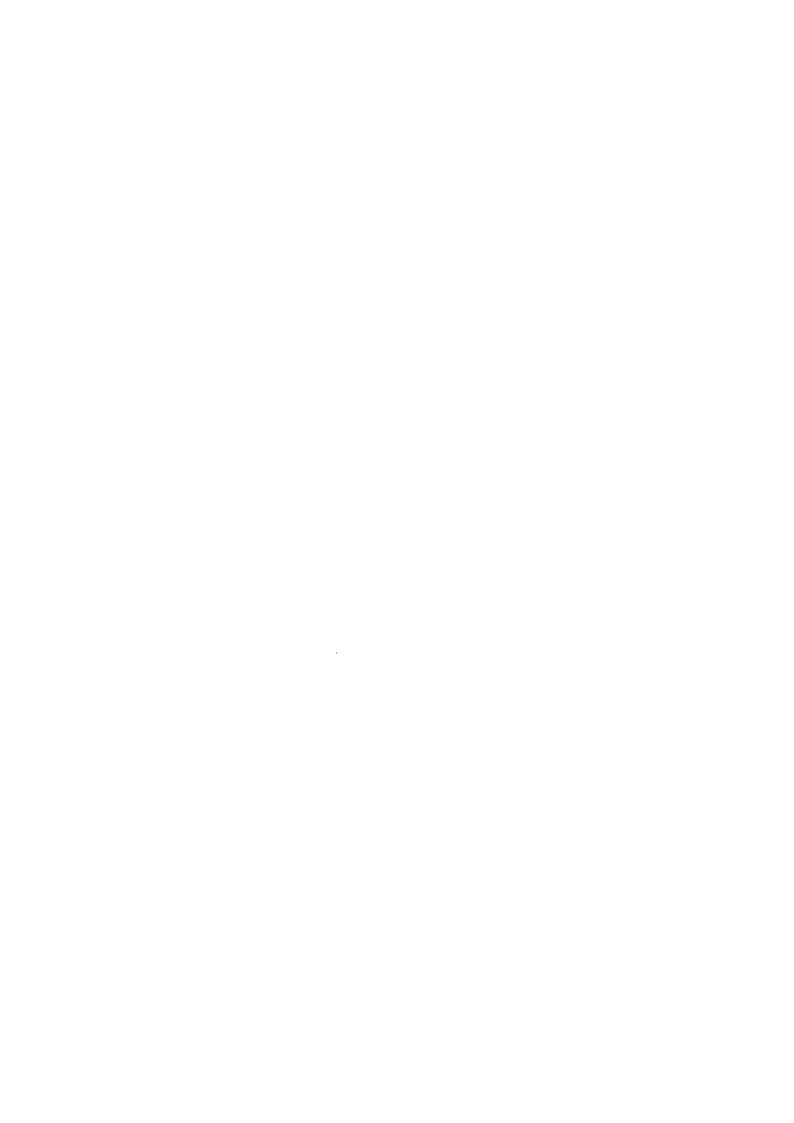
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B'FWD	NO OF ITEMS 279	· · · · · · · · · · · · · · · · · · ·	122226.19	11182.6
3 07 King, Robert Charles A	A dictionary of ge	11-Oct-1994		
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Miller, J.H. Experimer 0879691069	nts in molecular s	£ 38.39	419,68	38.
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	2 472.79	568 00	568 00	₹			factor 0.8X	1 Widefield Magnification changer, factor 0.8X	
	740.10	170.00	170.00	₽			X	1 Magnification changer, factor 1.5X	
	211.36	48.55	48.55	2				1 Spare bulb, 6V , 15W	
	1 210 27	278.00	278.00	₽				1 Wooden Cabinet, with lock	
	15 824.97	3 635 00	3 635.00	₽				1 Carl Zeiss laboratory Microscope	
					1527-0001		504 + 7.5 mg Sc)	1 box Catalyst Kjelltabs auto (1.5 g K2 504 + 7.5 mg Sc)	
					6110-0001			1 Analysic balance	
		_			1000-1079			2 Stand for 6 crucibles	
					1000-1172		(40-90 microns)	10 sets of 6 Fiberiec crucibles, standard, P2 (40-90 microns)	٠.
		-			1000-0427		lasks (250ml)	t Basket for handling 20 receiver flasks (250ml)	
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SA	55%					Flipboards	2 Mobile blackboard	Overhead screens	Side projector	Book projector	10 Transparency markers, medium (soluble)	ansparency markers, mediun (permanent)	10 Transparency markers, fine (soluble)	10 Transparency markers, fine (permanent)	20 Overhead transparency	3 Overhead projector	Princippole		Oxygen bomb calonmeter, to measure wood calonc value	Forestry Section		Plant water status consor	Agronomy section		Some common crop insects	1 Plant patology	Dispit pulmer detinance	AV aid set	Visual training aid :Crop chemicals instructor's kit & 200 skdes	Electronic top loading balances, weighing range 2220 g	ELE Semi automatic balance, 25 kgs	2 Atomiser, 1.5 I capacity	2 Atomiser, metal shoulder type semi 88.95 automatic	CION TIONNESS		PLANT PHODUCTION AND DRYLAND FARMING (PPUT)
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