Supply of Teaching Aid to Mekele College of Dryland Agriculture and Natural Resources

Mekele, Ethiopia

A Report to NORAD

NORAGRIC BIBLIOTEKET Postboks 2 N-1432 AS-NLH

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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 Mekele College of Dryland Agriculture and Natural Resources (MCDANR), particularly the Dean, the Assistant Dean and the Department Heads 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 in Mekele was incredible.

We are also very grateful to a number of individuals and institutions we visited outside the college. They were helpful and provided 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 MCDGNR 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 Governments of Ethiopia and Eritrea, respectively, in the field of natural resource management, NORAD, in July 1994 offered assistance in the form of institution strengthening package to MCDANR. This college was assessed as having vital roles and responsibilities in the development of trained manpower required in agriculture especially 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 four of its staff (Liv Ellingsen, Aregay Waktola, Carl Grennes and Henning C. Svads) as team members, the latter to serve 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,

(c) consultation with NORAGRIC staff and other relevant staff members at the Agricultural University of Norway (AUN).

These were accomplished before the departure of the team members to Ethiopia and Eritrea.

The team spent nearly 5 weeks to accomplish the mission in both countries. The time spent in Mekele was about one week (see Annex 8.3). The team was very impressed by the level of commitment and preparedness of the staff of MCDANR 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 as second priority items for possible consideration by NORAD. It must be noted that particular attention was given 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 showing the first priority needs while Annex 8.7.3 shows the second priority items.

Items	Amount for First Priority Items in NOK	Amount for Second Priority Items in NOK
1.Textbooks	111,560 (313 vols)	
2. Reference books	67,430 (191 vols)	
3. Lib. equipt. & supplies	78,970	80,020
4. TM prep. equipt. & supplies	282,000	
5. Audio-visual aid	207,370	
6. Lab. equipt. & supplies	587,470	2,675,860
7. Farm machinery	none	
8. Transport	294,380	
9. Contingency	71,890	137,794
Total	1,622,440	2,893,675

Table 1: Summary of allocations by priority items

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 some others promised to send their quotations to Norway within the shortest possible time.

Regarding long term agreement between MCDANR and the Agricultural University of Norway (AUN)/NORAGRIC it was handled fearly well because the ground work had already been done as a result of reciprocal visits made by the leaders of the two institutions. So, to fulfil the condition laid out in the TOR, the Memorandum of Understanding shown in Annex 8.4 was signed. The team also took time to visit some concerned institutions in Mekele and Addis Ababa to learn about current educational and technological policies affecting the provision of teaching aid covered under this grant. The 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 collaborations 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 cooperation 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 urgent 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 the college in question. 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.

Already, MCDANR and AUN/NORAGRIC were in the process of creating collaborative links when this opportunity arose. Furthermore, the latter was seeking assistance from NORAD for major long term cooperation. The present grant which amounted to about NOK 1.5 million, was proposed without any prejudice to the outcome of future decisions by NORAD.

The NORAGRIC team consisted of Aregay Waktola (Agriculturist) as team leader, Liv Ellingsen (Librarian) and Henning Svads (Agronomist), the latter to act as project co-ordinator 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 formal meetings were held with the Dean, the Assistant Deans and Department Heads as well as relevant persons in other government and nongovernment institutions. The latter included the Embassy of Norway in Addis, The Norwegian Church Aid (NCA), Redd Barna-Ethiopia, 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.

Most of the time and efforts, however, were devoted to activities within MCDANR. These included intensive discussions and observations of college facilities and management. The exchange of views and interactions with Department Heads were more detailed and included visits of classrooms, library, 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. Finally, the priority lists thus prepared were endorsed by the Academic Commission of the College. Those items that are not included in the first priority lists are taken as second priority needs and included in this report.

The remaining portion of this report presents brief accounts of the needs and priorities. A brief introductory background on the College is given to serve as a frame of reference. This is followed by comments on the rationale for the choice of particular categories of items. Annex 8.7.1 presents the first priority needs while Annex 8.7.3 shows the second priority items.

3. General background

Mekele College of Dryland Agriculture and Natural Resources (MCDANR) was started in 1993. In a way it could be considered as an extension of the College of Arid Zone Agriculture at the University of Asmara which was started in 1986/87. Because of the war, the Asmara programmes were moved to different locations in Ethiopia. The agricultural programme was first located in Agarfa Southeast Ethiopia and then moved to Alemaya University of Agriculture where the programme phased out after the students in the pipeline graduated.

After some consideration concerning the need for continued training in dryland agriculture as recommended by a technical Task Force, the Transitional Government of Ethiopia (TGE) decided to establish the College in Mekele, the capital of Tigray Region. It is located about 800 kms. from Addis Ababa in Northeast Ethiopia.

The objective of this College remained almost similar to its predecessor with a focus on arid and semi-arid zones. It is envisaged that this College would grow to a university college with expanded educational and research activities. Students come from all parts of the country as recruited and placed by the Ministry of Education.

In its present form, the College is under the umbrella of the Ministry of Education and the academic programmes are structured into the following Division and Departments:

- (a). Division of Natural and Social Sciences.
- (b). Department of Soil and Water Conservation.
- (c). Department of Crop Science.
- (d). Department of Animal and Range Science
- (e). Continuing Education Programme.

There is a plan to start a Department of Agricultural and Natural Resources Economics.

The Division of Natural and Social Sciences (DNSS) is responsible for the basic courses offered at the Freshman and Sophomore years. Otherwise, all the other Departments offer programmes leading to a Bachelor of Science (BSc) degree with the exception of the Continuing Education Programme which offers a three years diploma programme in Soil and Water Conservation and Computer Literacy for non-regular students. Also periodic inservice training activities are carried out to extension agents and farmers with the purpose of upgrading their skills and knowledge.

The College has about 350 hectares of land for research and field practicals. The development of laboratory, library and computing facilities are underway. These have to be urgently completed if the present students are to complete the requirements of the degree programmes on time which includes field practical attachments of six months duration.

The total number of the academic staff is 23 which is expected to rise in the coming few years. Table 2 presents the composition of the academic staff by qualification and academic rank.

Dept	Diploma	BSc	MSc	PhD	Total
DNSS*	1	6	3		10
S&W Con	* - *	3	1	1	5
Crop Sc	1	2	3		6
Animal & Range Sc		1	1		2
Library	1	1			2
Total	3	13	8	1	25

Table 2: Distribution of the teaching staff and the Library staff by

 qualification at MCDANR

*DNSS = Division of Natural and Social Sciences

During the 1993/94 academic year there were only first year students numbering 45 of which 5 were female. The planned annual intake is 60 to have a total enrolment of about 240 students. Attrition rate account for nearly 30%, reportedly due to the low standards of incoming students as well as the poverty of the teaching facilities.

At the moment, instructional materials are in short supply. Textbooks are literally missing. So are laboratory equipment and transportation facilities. The college has a small poorly equipped library. These aspects are further highlighted in the next section.

4. Teaching aid priorities

The focus was on common needs except for textbooks. The need for a means of transport is considered as an urgent priority followed by the other priority items which are briefly indicated below.

As noted above, priority items identified by the Departments include only textbooks, reference books, and other minor teaching aid listed in Annex 8.7.2. Books for some of the courses as well as models and permanent slides could not be specified for lack of appropriate catalogues. Hence the Academic Commission suggested that the team make appropriate choices in consultation with the staff at the AUN.

5. Comments on major categories of teaching aid

5.1 Textbooks.

Textbooks are the most important needs expressed by the various departments. Following the guidelines of the TOR, a textbook was selected for each course, with one copy for three students.

5.2. Reference books.

Comparatively few titles are selected to supplement the order of books which had already been dispatched through the World Bank. The lists had been checked to avoid unintentional overlap of titles.

5.3 Equipment

5.3.1. Library and audio-visual centre

The College has plans to make its library as a centre of information that can be accessed by its community as well as people from and outside the region. The need for strengthening the library with essential facilities and audio-visual materials is given high priority. Our observation and opinion on the overall library situation is as follows.

The present staff of the library, both professional and technical staff, gave a very good impression of being dedicated and hardworking, . The Head Librarian is a member of the academic committee, and communication between the College management and the library seem to be close. In order to implement the ambitions of developing into a regional information centre, the staff will however need to be strengthened quantitatively.

Regarding the book collection, it is very limited in numbers, and some of the books received as donations are said to be of less relevance. Through World Bank funds and the present NORAD grant, the book stock will probably be sufficient to form a basis for a relatively good agricultural library. The existing collections include 2802 volumes obtained through local purchases (1827) and donations (975). Furthermore 8924 library books are ordered using IDA (World Bank) loan.

Networking and exchange of publications is seen as a way of strengthening available information resources. Apart from some newsletters received through networking efforts, there are no current journals' subscriptions.

No tools for cataloguing or indexing are found in the library. Cataloguing is done "freestyle", and preparation for computerisation has been taken into consideration since the start of the library/college. The Head Librarian is a resource person in the College concerning computer issues, and is also familiar with the software package selected for the housekeeping routines. Cataloguing and classification tools (handbooks) are needed as soon as possible.

A PC with CD-ROM drive and appropriate software for cataloguing is seen as essential to handle the big number of books which will enter the library from two major grants (WB and NORAD).

Supply of some stationary for processing books and preparing a card catalogue is needed.

Since the library will be seen as the College's information centre, audiovisuals and some teaching aid were included in the library equipment list.

Binding material and equipment both for preparation of handouts and for book maintenance and repair was also included in the library's list.

The building, though newly constructed, will soon show shortage of a lack of space for collections, possibly reading space will also be too limited as student intake increases.

5.3.2. Laboratory equipment and chemical supplies

At present the College has no laboratory equipment. Through the loan it obtained from the World Bank the College has prepared a list of laboratory equipment and forwarded the same through the Ministry of Education for appropriate purchases. However, taking into account the long bureaucratic procedures involved, the College does not expect these to come before 1996. Laboratory practicals will suffer in the mean time. Therefore, it was decided to use some of the NORAD grant to purchase very essential equipment and chemicals especially needed for the first and second year courses. Emphasis is given to the purchase of basic equipment and chemicals for soil and biology laboratories.

5.3.3. Equipment and supplies for the preparation of teaching material

Most of the textbooks and reference books do not reflect Ethiopian realities besides being expensive. To overcome these limitations, the College encourages its staff members to prepare relevant teaching materials. Items such as duplicating machines, photocopiers, computers, printers, paper, etc. are required.

There was an expressed need for the purchase of PCs and software's for desktop publishing to produce handouts and transparencies.

Heavy duty photocopier supplied with a smaller one for minor copy work, photocopying from books and copying of transparencies was given high priority, as was simple binding equipment. The same material will at a later stage facilitate production of the college's own publications.

Supply of paper, transparencies, pens etc. is also essential.

5.4 Transport

MCDANR attaches significance to practical training conducted on campus as well as in the field. Furthermore, at the end of their third year, students will be attached to various projects of government and nongovernment organisations for one cropping season (six months) to expose them to problems of production systems including soil and water conservation among other things. During this period, students will be supervised by the College staff as well as the collaborating institutions. To accomplish such tasks, the availability of means of transport is a determining factor. The College strongly recommended that the purchase of a bus be given high priority.

6. Other sources of funds for teaching aid

It was reported that the major source of external assistance comes from the World Bank. A number of promising contacts are made by the College but none had materialised at the time of this writing.

7. Institutional agreements

As noted previuosly, it was easy to draw up a Memorandum of Understanding between MCDANR and NORAGRIC because of the ground work developed earlier. It may be noted here that there is a good relationship between this College and the Relief Society of Tigray (REST) which has been receiving considerable assistance from NORAD through Norwegian NGOs. The Memorandum of Understanding signed between MCDANR and NORAGRIC is attached as Annex 8.4.

8. Annexes

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TERMS OF REFERENCE for A CONSULTANCY TO SUPPLY TEACHING AIDS to THE MAKALLE COLLEGE OF DRYLAND AGRICULTURE AND NATURAL RESOURCES

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 Makalle College of Dryland Agriculture and Natural Resources (MCDANR).

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

MCDANR 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, MCDANR 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 MCDANR may result from cooperation of a more long term nature with a Norwegian institution.

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 MCDANR to acertain MCDANR' priorities. The MCDANR 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

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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 possible 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 Makalle.

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 Makalle 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.

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- 4.2 In Makalle, the team shall work in close collaboration with representatives from and appointed by MCDANR. The Dean of MCDANR, 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 MCDANR syllabi, gathering catalogues and making tentative lists.
- 4.4 At a suitable time after relevant catalogues and tentative lists have been received by MCDANR, the team shall travel to Makalle for detailed discussions with MCDANR. 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 Makalle, together with a copy of the signed institutional agreement between MCDANR and NORAGRIC (Agricultural Uiversity 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 A precondition for the assistance indicated is that MCDANR enters into an agreement on institutional cooperation with NORAGRIC (The Agricultural University of Norway).
- 4.8 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, 5. juli 1994

au S. Uleur

Head Natural Resources Management Division Norwegian Agency for Development Cooperation

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NORAGRIC Postboks 5002 1432 ÅS

> Deres ref.: Your ref.:

Vår ref.: Our ref.,

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,

hau S. Ulay Justav S. Klem

kontorsjef Kontor for naturressursforvaltning

cc. NORAD/AFR cc. NORAD/Addis Ababa

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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 Mekele College of Dryland Agricalture and Natural Resorces wishing to intensify the existing cooperative relations between the two Institutions, especially to develop the academic and scientific research interchange between the two institutions through mutual assistance in the areas of education, research and publication and others, agree as follows:

PART 1

SCOPE OF THE COOPERATION

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

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, subject to availability of funds and the approval of the two instituions through such activities or programs as:

- Exchange of faculty members
 Exchange of students

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- 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 Agreement, P.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 partie prior to the initiation of the particular program or activity and such programs and activities shall be negotiated on an annual basis. Each institution 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 intial five year 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

FOR MEKELLE COLLEGE OF DRYLAND AGRICULTURE AND NATURAL RESOURCES

Signed: Fir Que X

Date: <u>DI-11-9</u>



mitiku Haile De. Signed: 4 Dean

Date:



8.5 Institutions/persons visited.

School of Information Studies for Africa. Addis Ababa University. Getachew Birru, Dean

Addis Ababa University Library Adhana Mengsteab, Chief Librarian

Norwegian Embassy/NORAD representation Norwegian Embassy/NORAD representation 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 Centre for 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 for Tigray, Addis Ababa (REST)

Norwegian Church Aid Kjell Solberg, Resident 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
- Pronting 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 situation.

8.6.1.1. Staff profile.

Head Librarian (BLSc)

Assistant Librarian (Diploma)

Typist

2 circulation clerks

8.6.1.2. Comments.

We got a very good impression of the library staff as dedicated and hardworking. The Head Librarian holds a position in the Academic Committee of the College, and has been with the college since its very start in the ruins of military camp. Communication between the library and the management of the College seems to be good. However, considering the number of books expected to come to the library through the World Bank and NORAD grants, and the College's ambitions of creating a regional information centre, the present staff will definitely be inadequate in numbers to handle the technical processes.

8.6.2. Collections.

8.6.2.1 Books.

During its first year of existence the library received a total of 2802 volumes of textbooks or reference books, partly as donations, partly as local purchase. 8924 volumes (1169 titles) have been ordered through the World Bank grant, but this order is still out for bids, and there is much uncertainty as to when the books will start arriving. Comparatively few titles will be ordered through the NORAD grant.

8.6.2.2 Journals.

There are no current journals' subscriptions. 127 subscriptions have been ordered under the World Bank grant. Some newsletters etc. start arriving as a result of networking efforts.

8.6.2.3. Other.

The Infoterra database has been donated by UNEP. State of Food and Agriculture Time series (SOFA 93) has also been taken into use. The librarian is consciously on the outlook for other specialized databases which can often be purchased free of charge or at the cost of the diskette only.

8.6.2.4. Comments.

Many of the books in stock seem to be of less relevance to the teaching and research of the college, and mainly serve to fill up shelves while waiting for better times to come. There is a clear consciousness about this fact. Networking with other institutions for exchange of information, will be used as a means to obtain current documentation. The Librarian is in the process of contacting institutions /organisations for free subscriptions and other relevant material.

8.6.3. Building and furniture.

8.6.3.1. Description.

The area of the public part of the library is ca. 250 m^2 , divided into three parts : stacks, which cannot be closed off; reading room and a lending section which also holds some reading places. In addition there are several offices, of which one is used as a computer workshop.

At present there are 47 reading places, and slightly more than 200 shelf metres are available, of which ca 1/3 is now filled up.

There are several screens for displays or exhibitions.

A locally made catalogue cabinet did not meet the requirements, and will have to be replaced by the carpenter.

8.6.3.2. Comments.

Like all the buildings, the library is newly renovated and looks clean and neat. The space will soon be deficit to hold collections as well as reading places for students. Some more seats may be squeezed in, but there is very little space for new shelves. This will soon constitute a major problem, since the books bought for the World Bank grant alone will need ca. 230 shelf metres!

There are no sloping shelves or other means of displaying new journals or other material, except for a tiny section of the counter, big enough to hold 3-4 books.

8.6.4. Working processes.

8.6.4.1. Acquisitions.

As already mentioned there is a clear consciousness of the importance of networking, and we discussed possibilities of obtaining literature from various sources advertised in newsletters etc. The list of books requested through this grant had been cross-checked with the WB-list to avoid overlap. Because of lack of foreign exchange it is difficult to get much experience in practical book selection and dealing with commercial book agents, but the follow up of this project may give some experience and understanding of these processes. Acquisitions are dealt with by the Head Librarian.

8.6.4.2. Cataloguing and indexing.

Cataloguing is done by the assistant librarian, who prepares the basis of the catalogue card as well as an input slip for later entry into database. Full set of catalogue cards are then typed by the typist. However, since the library has no copy of Dewey Decimal Classification, books have not been given call numbers (shelf signatures) and the catalogue cards are kept pending waiting for the DDC to arrive, bought from the NORAD grant.

8.6.4.3. User services/reference work

So far lending has been done by signing loans and returns in a book. A better system including loaners' pockets and book cards is being prepared and will be introduced from the start of the new semester.

There is an acute lack of reference material of any kind.

8.6.4.4. Administration.

Planning, budgeting and other administrative work is done by the Head Librarian. An annual report covering the first year of activity has been worked out as well as a staffing plan. Communication between the library and the college management seem to be open and positive.

8.6.4.5. Opening hours.

Monday-Friday 8-12, 13-17 Saturday 8-12

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 organised. 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.

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 bus and books. This would save substantial amount of money for additional purchases. There may be restrictions on commodities like chemicals. Suppliers are very well familiar with such regulations and can arrange for proper dispatch methods.

Annex
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					Overhead transperancies
3 367 00 Haaland & Hamre	3 367 00	3 367 00	NOX	BOS 16/2	Chloropplast of higher plant
3 969 00 Haaland & Hamre	1	3 969 00	₹ X	BOS 16/1	Plant cell
4 173 00 Haaland & Hamre		4 173 00	NOX	ZOS 114	Starlish
3 372 00 Haaland & Hamre		3 372 00	NOX	ZOS 47/1	Worker bee
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	15 84	15 84	5	ZHS-310-E	Potato
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102 83 Carolina Biological supplies	15 84	15 84	\$	ZHS-290-C	Misihoe
102 83 Carolina Biological supplies	15 84	15 84	5	ZHS-240-X	Apple
102 B3 Carolina Biological supplies	15 84	15 84	\$	ZAS-220-F	Aγ∎
102 83 Carolina Biological supplies	15 84	15 84	s	ZRS-210-M	Maize
102.83 Carolina Biological supplies	15 84	15 84	S	ZRS-200-T	Pine
102 83 Carolina Biological supplies	15 84	15 84	s	ZRS-190-K	Maie Fem
102 83 Carolina Biological supplies	15 84	15 84	•	ZHS-180-R	Horse-tail
102 83 Carolina Biological supplies	15 84	15 84	\$	ZHS-170-B	Moss
102 83 Carolina Biological supplies	15 84	15 84	<u>.</u>	ZRS-160-Y	Lichen
102 83 Carolina Biological supplies	15 84	15 84		ZRS-140-W	Wheat rust
102 83 Carolina Biological supplies	15 84	15 84		ZHS-120-N ZHS-130-G	Hungi Mishon
102 83 Carolina Biological Supplies	15 84	15 84		ZHS-100-E	Freshwater
28 05 Carolina Biological supplies	4 32	4 32		ZHP-920-C	A section of a Leaf
21.81 Carolina Biological supplies	3 36	3 36	5	ZAD- 135-E	Fruit Dispersal and Seed germination
23 24 Carolina Biological supplies	3 58	358	5	ZRP-725-L	Flowers
23 24 Carolina Biological supplies	3 58	3 58		ZRP-715-S	The Loaf
24 93 Carolina Biological supplies	3 84	3 84	5	ZRP-640-M	Plant adaptions
24 93 Carolina Biological supplies	384	384	S	ZAP-630-T	Parasitic Plants
11 88 Carolina Biological supplies	1 83	1 83	S	ZRT-510-	Timber Section
24 93 Carolina Biological supplies	3 84	3 84	S	ZAP-610-K	Root anatomy
24 93 Carolina Biological supplies	3 84	3 84	S	ZHP-600-R	Dicot root
24 93 Carolina Biological supplies	3 84	3 84	5	ZHP-590-Y	Monocot stem Anatomy
24 93 Carolina Biological supplies	384	384	•	ZHP-580-P	Dicot stem Anatomy
24 93 Carolina Biological supplies	3 84	3 84	5	ZHP-560-G	Grass (voes
24 93 Carolina Biological supplies	3 84	5		2HT-554-M	

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Total Teaching materials	-	SUM	10pk Continuous paper (Wide)	15pk Cominuou	1000pk PhotoCopy paper	5pk Transpare	20 Markers fu	10 OH pens	10 OH pens	1 Printers (i	2 Printers (Dot-matrix)	2 Desktop F	6 Computer	1 Computer	2 PhotoCop	TEACHING MATERIALS	
ria is			is paper (Wide)	15pk Communus paper (Narrow)	y paper	Spk Transparency (heat resistant)	20 Markers for white board	10 OH pens (water based ink: extrafine, fine, broad)	OOH pens (permanent ink, extrafine)	Printers (LaserWriter)	Dot-matrix)	2 Desktop Publishing software		Computer for Library	2 PhotoCopier with spare parts		
								617001-01 to 616078	602001-01 to 601578	HP IV+ Laserjet	Epson LQ 1170	PageMaker+	Gateway 2000	Gateway 2000	Canon Copier NP-1215		
			Birr	Birr	Birr	5	NOX	5	5	5	5	5	5	5	5		
			450 00	450 00	65 00	55 00	18 03	11 00	11 00	2 245 00	749 00	695 00	2 789.00	3 245 00	2 395 00		
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Annex 8.7.1

SUM I	2 Temperature cells for conductivity meter	2 Temperature probe for conductivity meter	1 Conductivity meter	1 pH/ion moter accessories	20 pH paper reels, pH 1 to 14	20 boxes of 100 Filter paper, Whatman No.3, dia 15 cm	20 boxes of 100 Filter paper, Whatman No 3, dia 9 cm	20 boxes of 100 Filter paper, Whatman No 3, dia 5 5 cm	2 Dispenser, 0.4 to 2.0 ml	1 5 Wash bottles, polythylene	3 0 Porcelain crucibles, size 3	20 Crucible tongs. bowed, 200mm	20 Refort ring	20 Retort clamp, 3-prong	20 Bosshead, alloy with Tommy screws	10 Tripod stand, 125 side	3 Desiccator, borosilcate glass	15 Mortar and pestles, porcelain	2 pk of 20 Stoppers, two holes, 15x18	2 pk of 20 Stoppers, one hole, 13x16	2 pk of 20 Stoppers, rubber, 25x28 5	2 pk of 20 Stoppers, rubber, 15x20 5	10 Test tube stands, z-pattern	6pk of 25 TLC plate, type PE Stig	10 reels V-Form Chromatography Paper (reel), 3MM 23cm Wide	3 Air pump	1 Vacuum pump	Laboratory Equipments and class were	LABORATORY AND CHEMICALS
	1		GBP 535 50	CHP 976 40				CBP 3 69		GBP 4 32	GBP 12 00		090 2 09	GEP 3 80	GPP 2 60	GBP 348		GBP 6 03		(339) 1 2 9			039P 4.4.4			CBP 151 23	GBP 651.23		
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197 21	106 98 Telco	078 19 Telco	5 668 27 Telco	10 335 19 Telco	1 867 19 Telco	2 248 25 Telco	105 07 Telco	781 17 Telco	024 77 Telco	685 91 Telco	3 810 60 Telco	486 91 Telco	42 45 Telco	04,46 Telco	50 42 Telco	368.36 Telco	37 99 Telco	957 41 Telco	30 27 Telco	27.31 Telco	78 12 Telco	21 38 Telco	69,97 Telco	283 11 Telco	5 461 86 Telco	802 31 Telco	893 27 Telco		

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9 309 40 98 540 00 1 473 25 15 594 35 622 77 6 592 27 210 0 2 222 9 210 0 2 222 29 132 00 1 397.22 Telco 132 00 1 397.22 Telco 513 00 2.22 29 Telco 513 00 2.22 29 Telco 513 00 2.22 29 Telco 53 84 Telco 1.397.22 Telco 53 64 Telco 1.12 50 576 54 50 576 61 Telco 5112 70 7.19 66 Telco 7112 45 1 190 28 Telco 712 2 444 30 Telco 73 700 7.03 7.04 7.04 66 201 7.00 7.03 7.05 66 200 1 2.91 7.05 750 90 39 703 28 </th <th>3 99 9 39 6 62 12 20 3 750 90</th> <th>8888</th> <th>10 Side boxes, wooden for 100 sides 1 Microtome, rotary retracting bright 5030 with spare parts</th>	3 99 9 39 6 62 12 20 3 750 90	8888	10 Side boxes, wooden for 100 sides 1 Microtome, rotary retracting bright 5030 with spare parts
309 40 98 473 25 15 622 77 2 210 00 2 210 00 2 210 00 2 210 00 2 132 00 1 132 00 1 132 00 1 132 00 1 132 00 1 132 00 1 142 0 1 142 1 1 2345 1 1 142 20 1 123 20 1 122 00 1	3 99 9 39 12 20	88 88	10 Side boxes, wooden for 100 sides
309 40 98 473 25 15 622 270 2 210 00 2 210 00 2 210 00 2 210 00 2 210 00 1 51 00 1 51 00 1 51 00 1 51 00 1 51 00 1 51 00 1 51 2 2 234 75 2 234 75 2 66 20 2	3 99 9 39	(HPP)	
309 40 98 473 25 15 622 77 2 210 00 2 210 00 2 210 00 2 210 00 2 120 00 1 51 00 1 54 50 1 54 50 1 119 70 1 119 70 1 234 75 2	66 6 66 C		1 0 Side boxes, polystyrene for 25 side
309 40 98 473 25 15 622 77 6 282 00 2 210 00 2 132 00 2 132 00 1 51 00 2 73 6 1 54 50 1 73 6 1 73 7 1	66 E	GBP	25 pks of 100 Cover slips-circular
309 40 98 473 25 15 622 77 6 210 00 2 210 00 2 132 00 1 132 00 1 51 50 54 54 50 1 73 60 1 712 45 1		089	30 pks of 100 Cover slips-rectangular
309 40 98 473 25 15 622 77 2 21 00 2 210 00 2 210 00 2 210 00 1 132 00 1 132 00 1 54 50 5 73 60 1	22 49	A	10 pks 50 Sides, one cavity
309 40 98 473 25 15 622 77 2 210 0 2 210 0 2 210 0 2 210 0 2 210 0 2 210 0 2 210 0 2 210 0 2 210 0 2 210 0 2 210 0 2 210 0 2 320 1 3 54 50 1	3 68	680	20 pks of 100 Slides, normal
309 40 98 473 25 15 622 77 6 2100 2 2 2100 2 132 132 00 2 132 00 1 51 00 1	5 45	(B)	10 Magnifier, reading, dia 90mm
309 40 473 25 622 77 282 00 210 00 210 00 132 00	2 55	87	2 0 Magnitier, tolding X10
309 40 473 25 622 77 282 00 210 00	66 00	680	2 Stage micrometer 0.1 X 0.01mm
309 40 473 25 622 77 282 00 21 00	105 00	GBP	2 Stage micrometer 0.1 X 0 1mm
309 40 473 25 82 00	1 05	C#P	20 Bulb, 60W for C48-300S
309 40 473 25 622 77	56 40	C#P	5 Microscope Lamps
309 40 473 25	207 59	08p	3 Stereomicroscope, Eagle model 30
309 40	294 65	CBP CBP	5 Microscope, Eagle model 300
	1 861 88	æ	5 Microscope, Swift M1002D
			Microscope/magnifying_lenges
18.57			SUM
	8 / 3	4	
31 50 333 43 Telco	3 15		1 0 i nermometers, stirring, -10" to 360"C
	1 07	- Off	10 Thermometers, stirring, -10° to 110°C
			Thermometers
	2 07		2MM
	4 26		10 Strange Int Contra
	14 54		10 Buchner Funnel, Sintered funnel
	1.88	CBP	3 0 Conical flasks, pyrex, 250ml
78 00 825 63 Telco	2 60	689	3 0 Conical flasks, pyrex, 500ml
	9 24	640	1.0 Futer flasks, pyrex
	22 76	G	1 0 Separating funnel, glass, filter flasks, pyrex , 1000ml
_	13 50	GBP GBP	1 0 petn dishes, glass, 90mm
	69 96	69	Petn dishes, polystyrene, 90mm
	2 03	6	
	2 00	8	10 10X0 2 ml
	2 00		Measunng cylinders. 5X0 1 ml
155 20 1 642 791 Telco	7 76		20 25 X0 20
			1 Visualled Fiberres, bytex, JAV VS
	4.34		
	4 34		Graduted pipettes, pyrex, 1X0.01ml
	2 36		2.0 Dropping pipettes, glass
139 60 1 477.67 Telco	6 98	(HPP)	200 ml
	4.01	G	50 1000 ml
	2 52	€£0	
84 00 889 14 Telco	1 68	640	
79.00 836 22 Telco	1 58	680	
107 25 1 135 24 Telco	21 45	08P	10 pks of 100 Test tubes, pyrex medium wall, 100X12
	5 70	GB P	5 pks of 100 Test tube, Medium wall, 5X12mm
	-		
	-		Giass ware

ıex 8.7	-
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Dissecting sets			
10 Dissecting set		8 78 87 80	929 36 Telco
5 Dissecting dish	990 990		1 606 80 Telco
30 Dissecting Needles		7 35 22 05 2 15 21 50	233 40 Telco
			2 997.14
	_		- 1.768 7
Surreving (B. From ELE International Agronomics Catalogue)			
4 Tropical soil color chart		39 53 158 12	1 673.70 Telco
4 Gley sort chart	Gep 10		837 06 Telco
2 Compass	_		2 816 46 Telco
2 Altimeter/Baromater		325 50 651 00	6 890 84 Telco
4 Levelling staff, 5m			2 413.38 Telco
1 Planimeter, 320X50X140mm	GBP 283		3 000 85 Telco
2 Soll sieve set			1 029 92 Telco
1 Soil test kit with accessories			4 239 19 Telco
1 Tensiometer		160 88 160 88	1 702.91 Telco
1 Soil moisture meter	GBP 589	589 50 589 50	6 239 86 Telco
SUM			30 844.16
General Purpose			
40 Bubbar tubing for E4-0360			1 384 57 19100 202 15 Telco
1 Naar 1 WAmble enertrophometer with spare parts	2	UO 12 C 40 U	38 761 00 Telco
2 Water de-ionizer with Cartridge (back of 4)		239 25 478 50	5 064.92 Telco
1 General purpose oven		497 48 497 48	5 265 83 Telco
1 Refridgrerated incubator	з		34 900 33 Telco
1 Waterbath	GBP 566	566.10 566 10	5 992.17 Telco
5 Holplates	GBP 140		7 422 73 Telco
2 Hotplate stirrer with PPFE beads		3 13 446 26	4 723.66 Telco
1 Dial-O-Gram balance			1 488.57 Telco
1 Digital colorimeter	GBP 855	855 75 855 75	9 058.11 Telco
SWM			114 554.05
25 Buretes, 10ml			2 730.93 Telco
20 Volumetric flasks with stopper 250ml		5.81 116.20	1 229 98 Telco
20 Volumetric flasks with stopper, 500ml		7 56 151 20	1 600 45 Telco
SUM			7 266.60
<u>C. From Sigma Conmical Co</u>			
2 Prpette filler, 2ml	CBP 10	20 20 40	215.93 Telco
2 Pipette filler, 10ml			225 46 Telco
2 Pipette filler, 25ml	989 11	11 78 23 56	249 38 Telco
1 Finpimpette, adjustable volume, 5-40 micro L	GBP 178	178 50 178 50	1 889 42 Telco
1 Finpimpette, adjustable volume, 40-200 micro L			1 889.42 Telco
1 Finpimpette, adjustable volume, 200-1000 micro L		178.50 178.50	1 889 42 Telco
Fintips, 200 micro L		2	30 961 13 Telco
100 Fintips, 1000 micro L			14 691 98 Telco
1 Polypropylene microcentrifuge tubes with attached lids, graduated, 0 65ml		5 70 35 70	377 88 Telco
		95	21 117 08 Telco
		60	22 863 60 Telco
1 Dialysis tubing (seamless), ave flat width 40mm	01 dtD	73	
			07 404 00

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587 72 Riedel-de Haen	00 36 1	2		
303 87 Riedel-de Haen	08 69	DN S	200145 F	25 g Bromocresol purple
80 10 Hiedel-de Haen	18 40			
184 59 Riedel-de Haen	42 40	2		25 gl Sudan III
263 82 Redel-de Haen	60 60	2	284544 D	1 L Glycard GPR
1 574 92 Riedel-de Haen	361 76	¥	281326 G	20 L[Diethyl ether (98%) GPR
8 10 80 Riedel-de Haen	186 24	¥	270236 T	15 LL Acetone (99%) GPR
920 50 Riedel-de Haen	211 44	2	440065 P	1.5 kg/L-Ascorbic acid (vitamine)
75 75 Divide Haen	17 40	2 2	302432 A	2.25L meinylated spirit GPH
4 36 22 Riedel-de Haen	100 20	2		
369 18 Riedel-de Haen	84 80	Ø		2 kg Activated charcoal
127 99 Redel-de Haen	29 40	¥	440454 B	500 g Gelative powder
238.57 Riedel-de Haen	54 80	2	280094 F	500 g Devarda's alloy
141 05 Redel de Haen	32 40	Z S	271705 Y	2 kg Ammonium bicarbonale GPR
308 23 Heddlad Hann			H 1061/2	3 kg/barium chioride dinydrate
278 62 Hedel-de Haen	54 00	2 9	2/1424 C	3 to Boston ablanda dibudanta
137.57 Riedel-de Haen	31 60	2	27164 S	500 g Ammonum florid GPR
69 66 Riedel-de Haen	16 00	Ø	291094 X	500 g Magnesium oxide GPR
509 36 Riedel-de Haen	117 00	M	100714 K	2 5kg calcium sulphate dihydrate 'Analar' dihydrate
205 49 Riedel-de Haen	47 20	¥		2kg Polassium subhate GPR
90 55 Riedel-de Haen	20 80	2	302355 E	1kg sodium thiosubhate pentahydrate GPR
515 45 Riedel-de Haen	118 40	M	280254 D	1 Skg Ethylenediaminetetra-acetic acid disodium saet GPR
491 07 Redel-de Haen	112 80	N S		2kd Fihvlanediamine tetra-acetic acid
53 11 DivideLde Haen	02 111		H CCVUUC	
487 59 Hiedel-de Haen	112 00		275484 H	500g Cadminum Chlonde Hydrated
299 52 Riedel-de Haen	08 80	R	101674 A	500g Nickel sulphate "analar"
166 30 Riedel-de Haen	38 20	¥	261176 A	1 kg Lead Nnrate
528 69 Riedel-de Haen	121 44	M	277954 B	500g Cobaltus nitrate hexahydrate
410 10 Riedel-de Haen	94 20	Z		3kg Potassium per manganate GPR
	28 80	2	284005 E	2ko Ferrous subhate heptahvdrate
2 220 29 Plindel-de Haen	510 00	2 2	30045 EV	30g Shicore grease
59 55 Hede-de Haen	16 00	2 2		Tkg/Sodium Melasilicale
138 44 Riedel-de Haen	31 80	2		
597 30 Riedet-de Haen	137 20	2	102544 S	500g Sodium Molybdate Dihydrate "analar"
707 01 Riedel-de Haen	162 40	Ø	100914 Q	4kg Copper Subhate Pentahydrate
386 59 Riedel-de Haén	88 80	2	100884 E	
712 23 Riedel-de Haen	163 60	Σ	100284 J	500g Ammonium Molybdate dihydrate GPR
580 76 Riedel-de Haen	133 40	2	296314 E	1kg Potassium Iode GPR
773 18 Dodel de Haen	177 60	2 2	38564 K	Jkg Staten analar 1kg Iodeo CDD
292.56 Riedel-de Haen	67 20	2 9	102364 Q	Skg Sodium Acettate anhy "analar"
2 403.13 Riedel-de Haén	552 00	2		
501 52 Riedel-de Haen	115 20	¥		
355 25 Riedel-de Haén	81 60	Ā	101257 K	10 L Hydrochlone acid "analar"
640 14 Riedel-de Haén	147 04	¥	102767 Y	
770.40 Riedel-de Haén	176 96	2	270137 R	
478 89 Bendel-de Haén	110 00	N	371435	100nil - Praime
1 Sol 64 Dedel de Haén	02.82	2	101305 J	1009 Bovine albumic
651.28 Riedel-de Haen	149 60	2	10334 Y	2kg Mannital "analar"
148 02 Redel-de Haen	34 00	Z	103674 Y	1kgD(-) Fructose "analar"
123 64 Riedel-de Haén	28 40	M	101174 Y	2kg[D-Gucose * Analar*
501 52 Riedel-de Haen	115 20	₽	202746 D	6kg Sucrose 'analar'
	42 00	¥	301236 A	Skg NaCiOPR
3 641.44 Riedelde Haén	836.44	2	102524 X	55kg NaOH Pellets 'analar'
454 85 Headelde Haen	104 48	L M	A 98CL01	Methanot analar
888 11 Riedel-de Haén	204 00	2		
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Riedel-de Haen		133 12	[M]	31,990-2	4X2 LjEthylaetale
1 128 43 Riedel-de Haen	1 128 43	259 20	Ĩ	31,998-8	4X2 L Chloroform
909 71 Riedel-de Haen	909 71	308 96 208 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2	24,887-8	4X2 L N hexane
156 73 Riedel de Haen		36 00	2	22.133-3	2.5 kg Sodium borate
65 30 Riedel de Haen	1	15 00	<u>2</u>	22.034-5	500 kg Sodium bromide
736 61 Biadal-da Haan	<u>52 67</u>	169 20		24 284-5	6 ka Acetic antivaria
	RI #12	02 69		- 1 - U - U - U - U - U - U - U - U - U	
107 97 Hiedel-de Haen	107 97	24 80	2	271495 R	1 Kg ammonum chloride GPH
84 46 Riedel-de Haen	84 46	19 40	R	296194 X	500 g/di-potassium hydrogen orthophosphate GPR
73 14 Riedel-de Haen	73 14	16 80	R	102054 F	500 g Potassium ferrocynide trihydrate GPR
Riedel-de Haen	2 147 15	493 20	Ø	102026 B	5 kg potassium dichromate
1 030 21 Riedel-de Haen	1 030 21	236 64	Q	101687 F	15 L ntric acid 'Analar'
1 010 88 Riedel-de Haén	1 010 88	232 20	R	450103 J	
Riedel-de Haen	271 66	62 40	M	306215 J	3 kg Zinc sulphate heptahydrate GPR
Riedel-de Haen	151 50	34 80	2	306054 K	Zinc chloride GPR
163 69 Riedel-de Haen	163 69	37 60	2	291464 1	1 kol manoanous subhate tetrahvdrate GPR
930 44 DiodeLde Haen	230 44	55 00	Z	101524 8	1 kn mannannis chlorida tatra hvdrata GPR
Diodol do Uson	20 667			100581 5	4 kg lenic chorde armydr
Hieroel-de Haen	421 42	08 96	2		4 kg soarum supnate aniyo
529 39 Riedel-de Haen	529 39	121.60	2		4 kg sodium nitrate 'Analar'
161 95 Riedel-de Haén	161 95	37 20	2	301575 K	1 kg di-sodium hydrogen prtophosphate anhydrous
59,21 Riedel-de Haen	59,21	13 60	8	296084 J	
Riedel-de Haén	424 90	97 60	QM	102145 H	4 kg potassium nitrate 'Analar'
229 86 Riedel de Haén	229 86	52 80	Q	295946 D	3 kg potassium chloride GPR
Riedel-de Haen	169 79	39 00	Ø	291175 X	3 kg magnesium sulphate heptahydrate GPR
386 59 Riedel de Haen	386 59	88 80	¥	291064 Y	4 kg magnesium nitrate hexahydrate GPR
320 42 Riedel-de Haen	320 42	73 60	<u>R</u>	290944 J	5 kg magnesium chloride hexahydrate GPR
Riedel-de Haen	269 692	62 00	2	103054 J	2 kal calcium nitrate tetrahyde
2 320 00 Dividal-de Haan	00 00F C	02 167	23	275884 T	3 kolicatous cilium lievaliyulate inisiali
	281 24	04 60		E-2 5-05610	
101 87 Riedel-de Haen	101 87	23 40	2	85,578-2	1 kg Sodium citrate
220 29 Riedel-de Haén	220 29	50 60	M	20-998-8	1 kg/Zinc dust
63 56 Riedel-de Haen	63 56	14 60	¥	22,177-5	100 gm Copper (11) bromide
130 61 Riedel-de Haen	130 61	30 00	8	23-923-2	1 kg Calcium hydroxide
646 76 Riedel-de Haen	646 76	148 56	8	85-839-0	
384 85 Riedel-de Haen	384 85	88 40	2	21.294-6	500 am Cooper (1) chloride
670 15 Diodol-de Haen	670 15	156 00	23	36 A07-A	250 nm Mannesum nithon
Hiederde Haen	352 63	81 00		26,609-4	1 kg Copper turnings
1 253 81 Riedel-de Haen	1 253 81	286.00	2	26-826-7	900 gm Copper wire
299,52 Riedel-de Haen	299.52	68 80	8	21,548-1	1a
94 91 Riedel-de Haen	94 91	21 80	M	B-133-4	1 kg Benzaklehyde
729 30 Riedel-de Haen	729 30	167 52	¥	36,280-8	12 L Ethanol
l Riedel-de Haén	254 94	58 56	8	21,682-8	6x500 gm Iron nitrate
Riedel-de Haén	441 62	101 44	2	22,122-8	10 L/Cenc NH3
23.04 Mildel-de Halen	08 30	20 40	2 3	21 511-2	And the product and the second
89 81 Riedelde Haen	189 81	43 60	2 2	20,779-9	500 gm Potassium Thiocyanate
Riedel-de Haén	66 17	15 20	2	20,768-3	
	607 05	139 44	R	12,543-1	6 L Cyclohexene
194 17 Riedel-de Haén	194 17	44 60	2	11,451-0	100gm Methylorauge
255 99 Riedel-de Haén	255 99	58.80	M	13,010-9	1 kgO-Naphtol
56 60 Riedel-de Haén	56 60	13 00	2	M-10-8	1 ko Maleic anhydride
82 72 Biodelide Haén	R2 72	19 00	2	T3 710-7	1 ka O-Taludne
143 67 Hedelde Haen	143 6/	37 00	2	P2,625-2	1 Lo Channel
Riedel-de Haén	498 91	114.60	2	21,590-2	2.5 kg Lead (11) acetate
Riedel-de Haén	543.32	124 80	2	17,546-6	5 kg Steanc acid
					From Aldrich
359.99	39 359.99				SM
I Riedel-de Haén	1 058 38	250 00	¥	785584 P	25 g Indole-3-acetic acid GPR
	881.15	202 40	D.	440474 F	10 disponic acid (GAS)

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	294 380.00					PORTATION	TOTAL TRANSPORTATION
	294 380.00						SUM
Kjær & Kjær	294 380 00 Kjær & Kjær	294 380 00	X 294 380 00	NOK	Toyota Coaster Standard Roof	1 30 seater BUS Toy	1 30
							_
				_+		Z	RANSPORTATION
	587 471.86					TOTAL LABORATORY AND CHEMICALS	OTAL LABORA
	34 887.56						SUM
201 13 Redel-de Haen	201 13	46 20	M		23,037-5	100 gm Cobalt (II) nitrate	100 gm Co
53 98 Riedel-de Haen	53 98	12 40	X		24,462-7	Zine sulfide	100 gm Zinc sulfide
653 03 Riedel-de Haen	653 03	150 00	M		28,861-6	5 kg Slica gel	5 kg Sil
136.70 Redel-de Haén	136.70	31 40	¥		24,786-1	500 gm Ammonium citrate	500 gm An
132 35 Riedel-de Haén	132 35	30 40	M		28,289-8	100 gm Agar fine powder	100 gm Ag
67 04 Riedel-de Haén	67 04	15 40	M		20,691-1	100 gm Aluminum (III) chloride	100 gm Al
70.53 Riedel-de Haén	70.53	16 20	2		22.124-4	500 gm Ammonium nitrate	500 gm An
91 55 Riedel-de Haén	191 55	44.00	ž		24,661-5	500 gm Potassium chromate	500 gm Po
132.35 Riedel-de Haen	132.35	30 40	DM		24,402-3	500 gm Potassiumleric cyanide	500 gm Po
872.79 Riedel-de Haén	872.79	200 48	X		25-810-5	20 kg Sulfunc acid	20 kg SL
487 59 Riedel-de Haén	487 59	112 00	DM		32-335-1	500 gm Sulfuric acid (luming)	500 gm SL
065 74 Riedel-de Haén	1 065 74	244 80	X		25,814-8	Hydrochlone acid	8x4 L[Hy
367 44 Riedel-de Haén	367 44	84 40	DM		23,677-0	500 gm Chromin acid	500 gm[Ct
316 93 Riedel-de Haén	316 93	72 80	DM		20,788-8	500 gm Bromme (Br 2)	500 gm Br
252 50 Riedel-de Haén	252 50	58 00	DM		25,019-8	Methyl red	100 gm Methyl red
125 38 Riedel-de Haén	125 38	28 80	DM		28,205-7	125 gm Sodium lump	125 gm Sc
1 003.05 Riedel-de Haén	1 003.05	230 40	X		12,543-1	Cyclohexene	8 L C)
270 79 Riedel-de Haén	270 79	62 20	M		3,043-9	I kg Perchlonc acid	1 kg Pe
323 46 Riedel-de Haén	1 323 46	304 00	QM		16,257-4	500 gm Dimethylgloxime	500 gm Di
402 26 Riedel-de Haén	402 26	92 40	M		C 8,445-3	Congo red	100 gm Congo red
73 14 Riedel-de Haén	73 14	16 80	8		34,290-4	500 gm Ammonium iron (II) sulphate hexahydrate	500 gm An
501.52 Riedel-de Haén	501.52	115 20	M		18,451-9	8 L Petroleum ether	8 L P
449,96 Hiederde Haen	449.98	103 36	DM		15,490-3	4X2 L Methanot	4X2 LIM0

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koenses to cover books according to at 7 Dryland Agriculture and Natural Reso	ttached list for Mekele College Durces, freight costs included.		٠	
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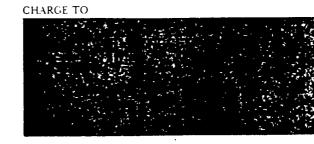
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1 kg Sakcylamige	11 293-3	.	34 60	34 60	224 62 Telco
500 g Ethylenediaminetetraacetic acid ferric monosodium salt	280233 V	59 6	18.30	18.30	118 80 Telco
	29,544-2	59	108.60	108.60	705.03 Telco
1 kg Calcium exalate	28,984-1	\$9	46.60	46.60	302.53 Telco
500 gm Sephadex R	27.107-1	5	436 50	436.50	2 833.76 Telco
100 gm/Nickel (II) chloride	36-430-4	\$	14.50	14.50	94.13 Telco
SUM				689,65	4 477.21
Audiovisual Materials and Supplies					
2 opaque projector	OPS-4006	5	889.00	1 778.00	11 542.78 Gaylords
	XA410	S	495.00	495.00	
1 TV/VCR Combinations (20°)	CRN200AT	s	777.00	777 00	5 044.28 Gaylords
5 Color coded slide trays	373V	5	10.95	54 75	355.44 Gaylords
30 Audio tape clamshell box	ATBI	\$	3.95	118.50	769.30 Gaylords
1 Bertlord multimedia cart	BRBBVILSI		212.00	212.00	
1 Displayers (40 1/2" H) 1 Denerhank carcusel displayers (foor model 54" H)		n 4	428.00	428.00	2 752 61 Gavlords
1 Display	8620	59	527.00	527.00	3 421.28 Gaylor
1 Newspaper easel (lubular)	TNPE	\$	195.00	195.00	
1 Megazin displayers (wall-mounted)	8233	5	327.00	327.00	
1 Display shelves (w/highted top)	G893CL	5	1 240.00	1 240.00	8 050.08 Gaylords
2 Add-on sectional visible files with replacement card pockets		•		347 40	3 050 61 Cavlor
1 Bookcraft 380 Binding system	BC380-220	69 6	820.00	820.00	5 323.44 Gavlords
Accesaries for BC380-220:					
1 -2 spacer plates (8(1/2)xll*)	BC381	\$	8.85	8.85	57.45 Gaylords
	BC384	59	20.75	20.75	134.71 Gaylords
Ι.	BC386	5	59.95	59.95	389.20 Gaylords
3 Taping system applicator	7969		53.50	160.50	1 041.97 Gaylords
Replacement blade for No 6367	676	, 5	6.15	30.75	199.63 Gaylords
e Transparent protectors (ort cols.) ST13e	50 50	, 4	9.00	11.20	
10	712MB	, •	1 95	58 50	379 78 Gavlords
	712MB	5	3.50	70.00	454.44 Gaylords
	712K	s	4.95	49.50	321.35 Gaylords
	712Disc	S	0.45	13.50	87.64 Gaylords
Bra					
	21689	5	29.75	148.75	965.69 Gaylords
5 -IIX14"	881114	67	31.75	158.75	
20 Buckram book cloth(4*x100 yds)	BK460	5	71.00	1 420.00	9 218.64 Gaylords
	67800	57	6.95	27.80	180.48 Gaylords
6 Vinyl delayed-bond laminate	566	5	32.65	195.90	
F	D4418		239.00	478.00	3 103.18 Gaylords
2 -roll cradle for D4418	D4418A	6.	64.00	128.00	830.98 Gaylords
Nec		57	24.40	24.40	158.40 Gaylords
10 -80z dispensing bottle	A6464	5	8.15	81.50	529.10 Gaylords
Gra	48	5	3.50	35.00	227.22 Gaylords
3 Graphic knile blades/pkg	49	5	3 50	10 50	68.17 Gaylords
Bookb		, er	6 85	34.25	222.35 Gaylords
5 Stool adapt and and and and a store to the store of the		n 4	2020	16 75	108 74 Gavlords
		•		34 75	141 20 Cavlords
5 18° w/cork-back)	H59018		4 35	21.75	141 20(Gavlor

Annex 8.7.3

2 893 674.99					 ele	TOTAL Mekele
137 794.05					ie\$5%	Contingencies5%
80 020.39						SUM
670.30 Gaylords	103.25	20.65	\$	768	5 (20/2 thick)	
1 006.26 Gaylords	155.00	31.00	\$	L7187	5 Linen thread (18/3 thick)	
632.97 Gaylords	97.50	3.90	\$	773	25 Book repair card	2
155.81 Gaylords	24.00	2 00	\$	129	12 (9x12° 50 shts/pkg)	1
264.87 Gaylords	40.80	3.40	5	96	12 Waxed paper (6x9" IOOshts/pkg)	1

8.7.4. List of Suppliers

B.H. Blackwell Ltd. Broad Street Oxford OX1 3BQ England

British Council P.O.Box 1043 Addis Ababa Ethiopia

Addis Ababa University (AAU) Book Centre P.O.Box 1176 Addis Ababa Ethiopia

Gaylord Bros.: Box 4901 Syracuse NY 13221 4901 USA

CPU : Computer Professionals United P.O.Box 31166 Addis Ababa Ethiopia

WB Publications: P.O.Box 7247-8619 Philadelfia, PA 19170-8619 USA

Systemhyller A/S: Stålfjæra 3 0975 Oslo Norway

Natural Resources Institute (NRI) Publishing Unit Chatham Maritime Kent ME4 4TB United Kingdom

CFL Vision Hercules House Hercules Road London SE1 7DU United Kingdom Soil Science Society of America (SSSA) Headquarters Office, Book Order Dept. 677 South Segoe Road Madison, WI 53711 USA

International Fund for Agricultural Development (IFAD) Via del Serafico 107 00142 Rome Italy

WILDart Wilhelm Exner-gasse 23/32 Vienna Austria

ICRISAT Information Management and Exchange Program Patancheru Andhra Pradesh 502 324 India

OXFAM 274 Banbury Road Oxford OX2 7DZ United Kingdom

Carolina Biological Supplies 2700 York Rd. Burlington, N.C. USA

Haaland & Hamre Skytterveien 200 Postboks 175 1371 Asker Norway

PC House Integrated Computer Services: P.O.Box 839 Addis Ababa Ethiopia

Ås Foto: Brekkev 5 1430 Ås Norway

Telco: ES (Eagle Scientific ltd): Box 2287 Addis Ababa Ethiopia Høyskoledata as: Drammensvn. 130 B 0277 Oslo Norway

Eik Maskin as:22 64 68 20 Box 35 Risløkka 0516 Oslo Norway

Kjær & Kjær WorldWide Grønnmosevej 6 P.O.Box 260 5700 Svendborg Denmark

TELCO: Riedel-de Haén Aktiengesollschaft: Box 2287 Addis Ababa Ethiopia

TALC (Teachingh Aids at Low Costs): P.O.Box 49 St Albans Herts AL1 4AX UK

Hameg Germany

John & Fluk Co USA: P.O.Box C9090 Everett Washington 98 206 USA

Ericsson Electronic Services P.O.Box 34 1361 Billingstad Norway

F. Arngren Arngren Electronics as Stasjonsv. 51 Box 2 Holmen 0322 Oslo Norway

Fisher

Karl Kolb comb. &Co.-Kg. scientific & Tech.supplies, Germany

Adam Roully Crown Quay Lane Sittingbourne Kent ME103JG UK

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AMCE The Automotive Manufacturing Company of Ethiopia: P.O.Box 5736 Addis Ababa Ethiopia

Sherif & Sons P.O.Box 50053 Addis Ababa Ethiopia

Metric Analyse Division: Metric as P.O.Box 93 Holmlia N-1201 Oslo Norway

Local suppliers - used for minor items which can be bought in Addis Ababa.