

RESEARCH FOR THE MANAGEMENT
OF THE FISHERIES ON LAKE
TANGANYIKA

GCP/RAF/271/FIN-TD/05(En)

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November 1992

REPORTS OF TRAVEL 01 - 15 OF PROJECT
GCP/RAF/271/FIN

by

George HANEK
(ed.)

FINNISH INTERNATIONAL DEVELOPMENT AGENCY

FOOD AND AGRICULTURE ORGANIZATION
OF THE UNITED NATIONS

Bujumbura, November 1992

The conclusions and recommendations given in this and other reports in the Research for the Management of the Fisheries on Lake Tanganyika Project series are those considered appropriate at the time of preparation. They may be modified in the light of further knowledge gained at subsequent stages of the Project. The designations employed and the presentation of material in this publication do not imply the expression of any opinion on the part of FAO or FINNIDA concerning the legal status of any country, territory, city or area, or concerning the determination of its frontiers or boundaries.

PREFACE

The Research for the Management of the Fisheries on Lake Tanganyika project (Lake Tanganyika Research) became fully operational in January 1992. It is executed by the Food and Agriculture Organization of the United Nations (FAO) and funded by the Finnish International Development Agency (FINNIDA).

This project aims at the determination of the biological basis for fish production on Lake Tanganyika, in order to permit the formulation of a coherent lake-wide fisheries management policy for the four riparian States (Burundi, Tanzania, Zaïre and Zambia).

Particular attention will be also given to the reinforcement of the skills and physical facilities of the fisheries research units in all four beneficiary countries as well as to the buildup of effective coordination mechanisms to ensure full collaboration between the Governments concerned.

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GCP/RAF/271/FIN PUBLICATIONS

Publications of the project are issued in two series:

A series of technical documents (**GCP/RAF/271/FIN-TD**) related to meetings, missions and research organized by the project.

A series of working papers (**GCP/RAF/271/FIN-WP**) related to more specific field and thematic investigations conducted in the framework of the project.

For both series, reference is further made to the document number (**01**), and the language in which the document is issued: English (**En**) or French (**Fr**).

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Report of Travel
to
Bujumbura and Dar-es-Salaam
(25.10-01.11.91)

by
George HANEK

GCP/RAF/FIN/271/FIN.10

cc: Kato/Doeff, FIO
Fitzpatrick/de Boer, FIIT
Kapetsky, FIRI
Kambona, FIP
Everett/Bonzon, FIPP
Christy/Bonucci, LEG
FAOR, Tanzania
FAOR, Burundi
Greboval, RAF/87/099
Bellemans, BDI/90/002
Lindquist, Kuopio
Reynolds, Consultant
Chrono
Diary: Hanek

1. INTRODUCTION

1.1 Objective

To travel to Bujumbura and Dar-es-Salaam to discuss, the operational and aspects for GCP/RAF/271/FIN.

1.2 Itinerary

	Arrival	Departure
Kigali	25.10.91	
Bujumbura	25.10.91	27.10.91
Dar-es-Salaam	27.10.91	21.10.91
Nairobi	31.10.91	01.11.91
Kigali	01.11.91	

1.3 Persons met

in Bujumbura:

Mr. A. Kiyuku, Director of Fisheries
 Mr. FI.M. Biabatantou, FAOR
 Dr. D.F. Gréboval, Coordinator, RAF/87/099
 Mr. M.S. Bellemans, CTA, BDI/90/00@'
 Mr. J.P. Marquet, CTA, BDI/89/019
 Dr. J.E. Reynolds, Consultant, GCP/RAF/271/FIN
 Mr. Varayannis Triandafyllos, mechanic/builder

in Dar-es-Salaam:

Mr. W.A.M. Sichone, Director of Fisheries
 Mr. T.W. Maembe, Deputy Director of Fisheries
 Mr. B.S.M. Moreni, Fisheries Officer
 Dr. Fl. Bwathonde, Director, TAFIRI
 Mr. R.W. Fuller, FAOR
 Mr. J. Yomnazi, FAO Programme Officer
 Dr. O.V. Lindquist, Scientific Coordinator, GCP/RAF/271/FIN
 Mr. K. Karanko, Ambassador of Finland to Tanzania and Burundi
 Mr. H. Radia, Operation Manager, Interfreight

2. RESULTS

2.1 in Bujumbura

During separate meetings with Director of Fisheries and FAOR I was informed that the Government has officially accepted me for the post. Consequently, I felt free to discuss a number of operational aspects. Both agreed to the proposed timing i.e. another visit (7 to 10 days) to Bujumbura towards the end of November to finalize arrangements for renovation/extension of

existing building, to establish provisional office (telephone and fax) and to place several FPO's followed by the effective EOD on 03.01.1992.

As expected, Fisheries Director's main preoccupations were: (1) limited funds for training; (2) need to consider more substantial extension of the existing building; (3) preference to hire masterfisherman with thorough knowledge of the lake; (4) his doubts about R/V Sardinella; and (5) no need to have another fisheries statistician since Bellemans and his staff could be attached to GCP/RAF/271/FIN on as need be basis. Lastly, he stated that there should be no problem to establish the communications system providing the Ministry of Defence is consulted and appropriate application procedure followed.

Meeting with FAOR concentrated mainly on equipment purchases, local arrangements (one of his offices was kindly offered for the initial phase) and scheduling of initial reports. He was informed that the project's logo and report's cover page have already been designed and that these will be finalized with the project's Scientific Coordinator. Lastly, it was explained that all necessary arrangements will be made in Dar-es-Salaam to recuperate this project's car, now used by GCP/URT/066/NET, so that transport is immediately available (note: this aspect was subsequently discussed in Dar-es-Salaam with Director of Fisheries and FAOR and agreed that consultant Reynolds will drive it from Kigoma to Bujumbura on 4 or 5.11.91; an explanatory note was prepared for Bowman).

Intensive discussions were held with colleagues from RAF/87/099 and BDI/90/002. It was agreed that considerable 'expertise sharing' will be attempted, particularly during the next year since early results are needed. This applies mainly to EDI/90/002 (note: this project needs about 6 months to complete the input of Burundi's historical data; both Bellemans and Burundi's Director of Fisheries agree that the statistical package developed by this project for Burundi is transferrable to other riparian states. It would certainly make a sense to use only one statistical system on Lake Tanganyika; Bellemans and some of his already trained assistants could thus be used, tentatively in May/June, 1992, to both participate in 'Workshop on Statistical Coordination and Standardization' and particularly to set up the statistical system and train the counterpart staff in TAFIRI/Kigoma, also next year).

There was also an interesting exchange on the project concept itself. Not surprisingly the virtually same concerns were voiced by both Burundi's Director of Fisheries and Director of TAFIRI. In short, apart from the well known dislike by the authorities for APO's in general, nobody wants them to work alone, particularly in isolated duty stations like Kigoma or Mpulungu (Kalemie and Uvira were 'cleaned' last week and must be shelved' for the time being). Thus it might be a better strategy to post two P3, one to Kigoma (stock assessment) and the other to Mpulungu (limnology'). This way the project will

be more balanced as both of these stations will have basic expertise (one P3, one or more APO's + counterparts in each station) and thus can ensure APO's with the necessary supervision and mainly to provide a continuous flow of data. For further details see section 3.

Last task in Bujumbura was to find someone(=a tough, local person with experience in construction, boats, mechanics, etc.) able to take over the supervision of renovation and construction, activities. One such person was identified (=Mr. 'Roger' Varayannis Triandafyllos); general requirements were discussed and it would seem that he is just the person the project needs (I have him 'checked' right now...). It was agreed that he will find someone ablt-- to prepare, very fast and during my November visit to Bujumbura, a basic set of drawings + material costing for Bujumbura renovation/construction job. Pending results of my 'checks' it is proposed to hire these two persons under SSA during my next visit to Bujumbura.

During travel to Dar-es-Salaam a detailed discussions were held with the project's first consultant, Dr. Eric Reynolds. The importance of having the project operational, even through consultancy, is well appreciated. It was agreed that an update of Linquist/Mikkola original report might be useful, concentrating on the level and type of information available, number and level of counterparts available at each station, etc; thus an outline of his eventual report (=GCP/RAF/271/FIN/WP/01) was discussed and agreed upon.

2.2 in Dar-es-Salaam

The main objective of this duty travel was to meet with the project's Scientific Coordinator, Prof. Ossi Lindqvist. Two long meetings were held and their summary follows. All aspects were discussed and, happily, a virtual agreement reached on all. Specifically, project's Scientific Coordinator is well aware of the need to substantially modify the PRODOC.

Project's staffing has been proposed (see section 3) and agreed upon. Due to some changes in FINNIDA he has not been supplied with the c.v.'s of the two APO's proposed by FINNIDA. As requested by Officer-in-Charge, FIOA, the Scientific Coordinator was asked to specify the duration, timing and TOR for 1992 inputs from Kuopio. It was agreed that he will fax them to me to Gisenyi prior to 21.11.1991. I have specifically asked for experts in communication, meteorology, limnology and perhaps a librarian during first part of 1992. It was agreed that TOR for each consultant will include (1) to give a 1-2 day seminar at project's HQ and (2) to provide project's Coordinator with completed report prior to departure. Further it was stressed that most of these consultants must pass through FAO/Rome to meet both the project's POO and principally with the project's SMO, Dr. J. Kapetsky (FIRI) so that the scientific approach is clear. Further, it was explained and

agreed that the project's scientific approach and its scope is a joint effort of the project's Scientific Coordinator and SMO. Lastly on this point, the project's Scientific Coordinator would also like to see an experienced Greek master fisherman being hired; I have responded that if all parties agree, a consultant masterfisherman will have to be hired in that case, both to specify fishing gear needs, particularly for mid-water trawl, set it up and train the Greek in its use since there is no tradition in its use on Lake Tanganyika. On the other hand there would be many advantages, mainly a direct access to Greek community, their unquestionable knowledge of the lake and lastly one could have two P3 posts for the presumably very high P4 under consideration.

Scientific Coordinator is well aware that equipment costing has to simply be carried out again. I have provided him with a copy of FPO so that he knows FAO rules and conditions in this area. Further he was asked to provide me with a list of Finnish companies which might be able to supply the required equipment under FPO system. It was agreed that he and his staff prepare another list for the scientific equipment including updated costing and potential suppliers, clear that with project's SMO and fax me the one agreed upon so that FFO's could be placed this year. Lastly, it was agreed that I will finalize a list of office equipment, cars and computers (memo from E. Coenen of 24.10.91 on this subject will be taken into consideration), obtain quotes in Bujumbura and inform Scientific Coordinator on local purchases, if any.

It was also agreed that the project will try to organize the first workshop i.e. 'Workshop on Statistical Coordination and Standardization' for May/June, 1992 and first meetings of both the project's Coordination and International Scientific Committee's by the end of November, 1992; these two should be followed by the 6th session of CIFA sub-committee on Lake Tanganyika. The Scientific Coordinator will be proposing the composition of project's International Scientific Committee shortly.

There was a long discussion concerning cooperation with other projects, passed, present and those in the pipeline. He specifically mentioned the following: NORAD water supply in Kigoma, NORAD/SADCC for Tanzania and Zambia (no sign of life on this one), DANIDA 'bio-project' in Burundi, ODA project in Mpulungu (Prof. Linquist would like to see an 'official' FAO request to ODA so that contract of Martin Pearce is extended), German water supply project in Bujumbura. Since Reynolds was participating on these meetings he was instructed to specify and detail all available data, facilities, identify trained local personnel, etc. on these projects. Of main concern to project's Scientific Coordinator was the UNDP 'Implementation of Pollution Control and other measures to protect Biodiversity on Lake Tanganyika' project (budget of some \$ 10 million). The new version of this document, apparently even worse than the original one, is with Reynolds who will deal with this matter. Apparently, a mission to formulate the full project is now

scheduled to arrive to Bujumbura on 12.11.1991. Scientific Coordinator has major concerns about this project and would like to see a close cooperation, including cost sharing with our project; he is preparing a list of concerns (pay more attention to watershed, physical erosion, ornamental fish business, etc). In conclusion on this point, it was encouraging to note that the project's Scientific Coordinator regards our PRODOC as a 'wish list' and thus is ready to prioritize the activities, concentrate on the most important ones and eliminating others (for example: pollution and toxicology and/or others which might be taken up by other projects). Clearly, some degree of reality must be established.

Lastly, the designs of project's logo and report covers were agreed upon.

Separate meetings were held with the Director of Fisheries and his staff as well as the Director of TAFIRI whose personnel is stationed in TAFIRI/Kigoma. Director of Fisheries was given a copy of PRODOC and informed that his country has not signed it so far. In turn he promised to follow-up on this aspect (note: the same point was raised with the Director of TAFIRI, FAOR and Ambassador of Finland to Tanzania). The tentative schedule for 1992 was discussed; I have indicated that the project will do its best to have Kigoma operational by June/July, 1992. Further it was stated that I will visit Kigoma, together with project's civil engineer, early in January, 1992. At that point the extend of necessary rehabilitations (guest house, labo, offices, R/V ECHO) will be determined and the works will start soon thereafter.

Two meetings were held with the Director of TAFIRI, both in Dar-es-Salaam and in TAFIRI' HQ in Kunduchi. These centered on infrastructure, availability of counterparts, etc. The Director kindly sent written instructions to Mr. Katunda who runs the TAFIRI/Kigoma station to ensure his full cooperation to our consultant Reynolds who was scheduled to arrive to Kigoma on 01.11.91. In closing, the meetings with the authorities in Tanzania were very cordial. Their only concern was the need to increase the project's training component and ensure that an expert rather than APO coordinates the activities and works full time in Kigoma. Lastly, on several occasions eye brows were raised' regarding BL 1151.

Two brief meetings were held with the FAOR and the Ambassador of Finland to Tanzania; both were very helpful, provided logistical support and arranged meetings. Their support/assistance to achieve the PRODOC signature by Tanzania was solicited.

Because of many questions concerning the status and state of the project's research vessel (Burundi's Director of Fisheries would prefer a steel hull not FRP; Scientific Coordinator is well aware of budgetary constrains for this item and just everybody else questioned the feasibility of actually

transporting it from Dar-es-Salaam to Bujumbura i.e. some 2,000 km ...) I have asked the FAOR to recommend the largest Dar-es-Salaam based transport company. Thus Mr. H. Radia, Operations Manager, Interfreight (Tanzania) Ltd., Pugu Road, P.O.Box 1411, Dar-es-Salaam (tel.:(51)62462; telex:41519; fax:(51)62184) was contacted, mainly to ease my biggest personal worry about this project. He has promised to quote within 2 weeks, providing routing, etc., to be faxed to Gisenyi, once he clears it with his head office (=Panalpina World Transport Ltd., Huebweg 2S, Binningen, Switzerland (phone: (061)3062222; fax: (061)3023802)). Just for info: in Bujumbura harbor there is a typical steel Greek fishing vessel, for sale; she was built locally some 4-5 years ago, overall length 20 m, beam 5.4 m and has used/old engine. Starting asking price is apparently \$90,000 i.e. about the cost of transporting R/V Sardinella.

3. CONCLUSIONS AND FOLLOW-UP

3.1 Transfer, EOD, etc. - it has been agreed to complete the last technical report for RWA/87/012 by 21.11.91, leave for Bujumbura on 22.11.91, return to Gisenyi on 03.12.91, participate on RWA/87/012 last Tripartite meeting on 05.12.91, leave for what should be a Family Visit on 06.12.91, leave for Bujumbura on 01.01.1992, arriving there on 03.01.1992. Appropriate requests now pouched under separate cover. (Action: Doeff/Rijavec/Padroni)'

3.2 Allotment advice - after reconsidering, a request for the first one, for 1992, will be faxed either from Bujumbura or Gisenyi beginning December, 1991. Any FPO's placed this year will be dated 01.01.1992 and send off beginning December, 91. Proformas for local purchases will be obtained in November, 91 and affected early January, 92. Project's bank account will be open end November, 91. (Action: Doeff/Project Coordinator')

3.3 Staffing - in order to get a 'balanced project', acceptable to Tanzania and Zambia in particular, there should be a stronger presence in Kigoma and Mpulungu. Thus it is proposed to have one P3 + one APO + 3-4 nationals at each of these stations initially. For Kigoma no problem: P3: Piero Mannini, now with RAF/87/099, is very interested, his present NTE is end April, 92, thus able to start 01.06.92; APO: one of the two APO's under consideration; and counterparts: no problem there, Director of TAFIRI promised to even transfer to Kigoma the required national specialists. For Mpulungu: P3: has to be identified, Scientific Coordinator would prefer someone with strong limnology background; APO: the other from the two APO's under consideration; and counterparts: there could be a problem since most already engaged by other projects.

During the first 5-6 months the project's staff in Bujumbura will consist of project's Coordinator, civil engineer

(hopefully under SSA) + admin. and other local personnel, all on trial (GS contracts will be proposed to the best ones by mid-1992) + consultants (from Kuopio: in communication, meteorology, limnology + perhaps a librarian, all hopefully able to either set-up a specialized equipment and/or prepare a long term work programme in their respective areas; and from BDI/90/002: Bellemans + some of his assistants to assist with the preparation of 'Workshop on Statistical Coordination and Standardization' to be held about May 1992). Pending agreement on general scientific approach between project's SMO and Scientific Coordinator other consultants might be considered during the first six months of 1992 such as F. Roest, who in fact is to come to RAF/87/099 in January, 1992, etc. Recruitment of E. Coenen and research vessel skipper should be finalized during May, 1992 and their EOD not later than 01.06.1992. Eventually, a several APO's could be posted in Bujumbura; specifics will be provided once the work programme is agreed on. There are others which would be very good for this project; in particular Luc de Vos, basically a fish taxonomist, who knows the area very well and could contribute greatly.

(Action: Kapetsky/Doeff/Scientific Coordinator/Coordinator)

3.4 Scientific equipment - new list must be prepared, costing up-dated and cleared with project's SMO and FPO's placed as soon as possible.

(Action: Scientific Coordinator/SMO/Project Coordinator)

3.5 Other equipment - a list for office equipment, cars, computers, etc. will be prepared, proformas obtained and decision taken whether to buy locally or overseas.

(Action: Project Coordinator)

3.6 Research vessel - as apparent from the above there were many queries regarding R/V Sardinella. It is therefore essential that all possible efforts are made so that her eventual performance is acceptable to all.

(Action: de Boer)

3.7 Cooperation with other projects - an Update on all those mentioned by the project's Scientific Coordinator is needed in order to determine the degree for possible cooperation.

(Action: consultant Reynolds)

3.8 Training - there is a need to increase project's budget for this activity since all what is budgeted actually is for meetings. Additional funding is needed.

(Action: Scientific Coordinator/Project Coordinator)

3.9 Meetings - these are somewhat postponed so that the project can actually present some results. The important one i.e. the 6th session of CIFA sub-committee on Lake Tanganyika should thus be held in early December, 1992 in Bujumbura following immediately the 1st Project Coordination Committee and 1st International Scientific Committee meetings.

(Action: Kambona)

Report of Travel
to

Bujumbura
(22.11.-01.12.91)

by

George HANEK

GCP/RAF/271/FIN.10

cc: Kato/Doeff, FIO
Kapetsky, FIRI
Everett/Bonzon, FIPP
FAOR, Burundi
Greboval, RAF/87/099
Bellemans, BDI/90/002
Lindquist, Kuopio
Chrono
Diary: Hanek

1. INTRODUCTION

1.1 Objective

The objective of this duty travel was to make the necessary arrangements in order to make this project fully operational as soon as possible.

1.2 Itinerary

	Arrival	Departure
Gisenyi		22.11.91
Bujumbura	22.11.91	01.12.91
Gisenyi	01.12.91	

1.3 Persons met

Mr. P.M. Biabantantou, FAO Representative
Mr. A. Kiyuku, Director of Fisheries
Mr. D. Parisse, Honorary Counsel of Finland
Mr. P. Bonnevie, Managing Director, DEMCO Sprl
Mr. P. van Michel, Administrator, DEMCO Sprl
Dr. D. Grésboval, Coordinator, RAF/87/099
Mr. M. Bellemans, CTA, BDI/90/002
Dr. E. Reynolds, Consultant, GCP/RAF/271/FIN

2. RESULTS

Despite the fact that my visit to Bujumbura took place in time not recommended for those allergic to live machine gun and artillery fire, virtually all planned tasks have been completed. These were as follows:

2.1 Premises

in Bujumbura - due to proliferation of fisheries projects in Bujumbura there is no long term office space available. As a temporary measure this project had been offered two small offices; these will be used as project's HO during the first S-6 months of 1992. Arrangements have been made to have them cleaned and painted during December 1991.

During Pieroni visit to Bujumbura earlier this year it was agreed to extend the existing building and construct several offices and a laboratory. After discussing Pieroni's proposal with the Director of Fisheries it was agreed that this would have resulted in a costly and non-functional office/laboratory complex. It was therefore decided to construct a new facility. All arrangements were made so that this facility, actually

cheaper and considerably more functional than that proposed by Pieroni, will be completed not later than the end of May 1992. An indicative layout is now attached as Appendix 1.

in Kigoma - after debriefing Reynolds on his recent visit to Kigoma it was agreed that I will visit there in early January 1992. The project's civil engineer (see 2.3) will accompany me. The extent of the necessary renovation will be determined, the possibility to rehabilitate R/V ECHO in Kigoma evaluated and all other necessary arrangements made (note: the car used previously by Bowman will be used to go to Kigoma. It will then be used by the project's civil engineer until the rehabilitation there is completed, afterwards it will be transferred to TAFIRI/Kigoma).

2.2 Equipment

Thanks to FAOR's exceptional cooperation the basic equipment needs were determined, proformas obtained and arrangements made so that the basic equipment (car, office equipment, etc.) is available early January 1992. However, it was not possible to arrange for telephone installation; thus IFIP numbers (tel.: 224328; fax: 227705) will have to be used until ours are obtained, hopefully during the first week of January 1992.

2.3 Personnel

local staff - it was agreed with Gréboval (IFIP) that his project will 'repay in kind' for the services rendered by ours. Thus his secretaries will be used by our project during the first three months of 1992 allowing for proper selection/testing of ours. There will not be any problem to find driver/s as several have already provided me with their c.v.'s. Lastly, it was agreed with the FAOR to hire the person identified during my previous visit to Bujumbura as project's 'civil engineer' under local SSA (he will be given a 2 month initial contract, renewable if service satisfactory). His duty station will be Kigoma where he will organize and supervise all required rehabilitation of TAFIRI/Kigoma infrastructures which will be used by our project. He will further supervise the rehabilitation of R/V ECHO. This way we should be able to have both Bujumbura and Kigoma fully operational within the first six months of 1992.

international staff - the search for the 'ideal expertise mix' goes on...

After the recent Tripartite meeting of BDI/90/002 project the situation of Marc Bellemans is clearer; as his project will be most likely Government executed his services should be available, both to IFIP and to our project. Clearly, there is no need to have a full time statistician on our project. What is needed, in my view, is 3-4 months/year for the next 3 years

or so for Bellemans to allow for modification/transfer of 'Burundi statistical package' to other riparian states, for training of data collectors and mainly for supervision of a good APO who should be able to take care of the other tasks. Consequently, there should be a way to reach an agreement whereby he could be hired either by IFIP or our project under understanding that the cost of his post is shared proportionally by our project, IFIP and BDI/90/002.

Further and considering (1) the importance and subsequent reliance on acoustic work to provide results, (2) corresponding significant expenditure for acoustic equipment, (3) necessity for highest possible frequency of acoustic surveys and (4) importance to analyze at least some data locally, a serious consideration should be given to have a full time acoustic expert on the project.

Lastly, a recent correspondence indicates that IFAD project has a need for an experienced Fisheries Technologist. Since our project needs only a captain for its research vessel it is hoped that the candidate under consideration earlier makes right choice. The resulting 'savings' (there will be further saving on Administrator post - not needed) would allow for the proposals made in my TRAM/01 i.e. having two P3 (Mannini and Crul) in Kigoma and Mpulungu respectively plus a recruited captain.

This way the project's team composition could look like this:

in Bujumbura - Kari Johannesson, Greek captain, 2 APO's (statistician + remote sensing) and myself, all full time + M. Bellemans (part-time) + E. Coenen (optional);

in Kigoma - P. Mannini + APO (both stock assessment); and

in Mpulungu - R.C.M. Crul + APO (both limnology)

2.4 Work programme for January-June 1992

In view of 2.1, 2.2 and 2.3 above the AA/1992/01 has been prepared and faxed to HO; its copy is now attached as Appendix 2. Lastly, an indicative Work Programme for the first six months of 1992 has been prepared and is now attached as Appendix 3.

3. **FOLLOW-UP**

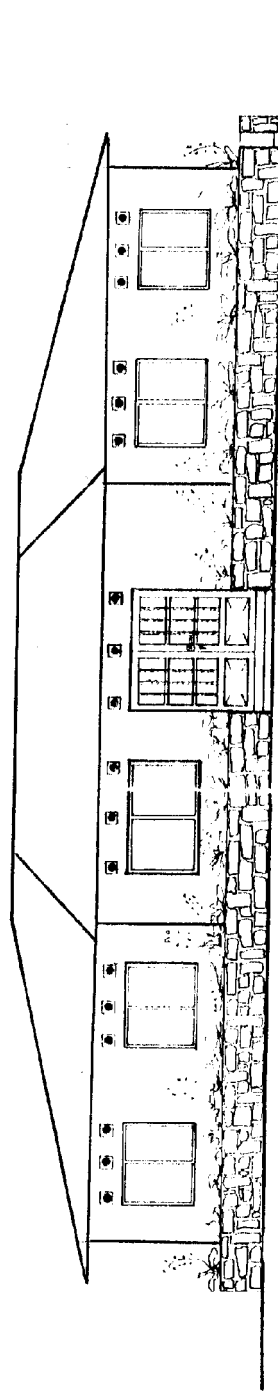
3.1 Prepare and sign local SSA for civil engineer.
(Action: Coc@i, dinatoi, and FAOR)

3.2 Determine interest/availability and decide on K. Johannesson, M. Bellemans, M. Coenen, R. Crul, P. Mannini and Greek captain attachment to our project.
(Action: Kapetsky and Doeff)

- 3.3 Approve AA/1992/01 and ensure funds available project's imprest A/C first week January 1992.
(Action: Doeff and Dery)
- 3.4 Approve Work Programme for January-June 1992
(Action: Kapetsky and Doeff)
- 3.5 Specify Kuopio inputs, particularly with reference to my TRAM/01.
(Action: Scientific Coordinator)
- 3.6 Specify scientific equipment needs.
(Action: Kapetsky and Scientific Coordinator)

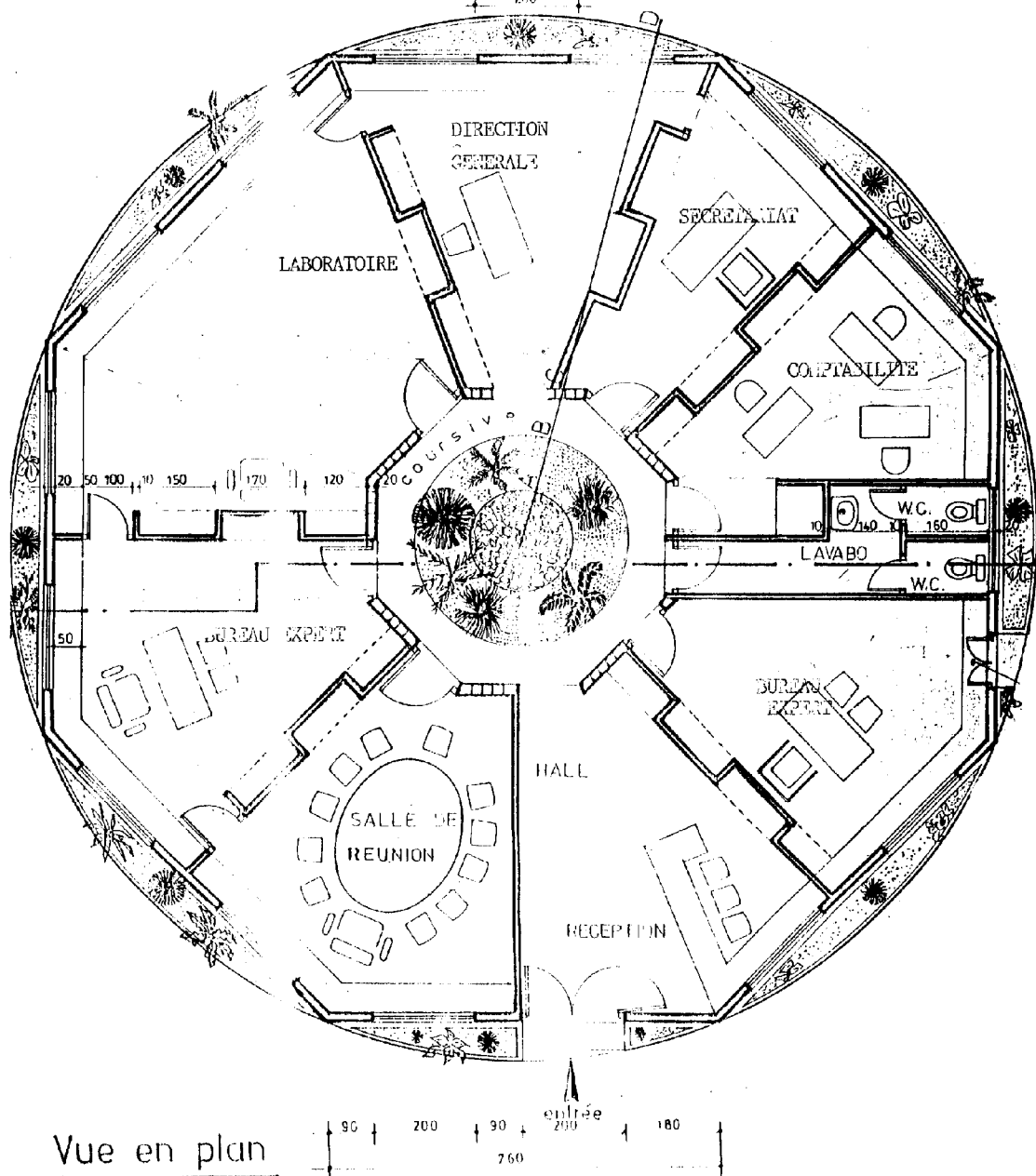
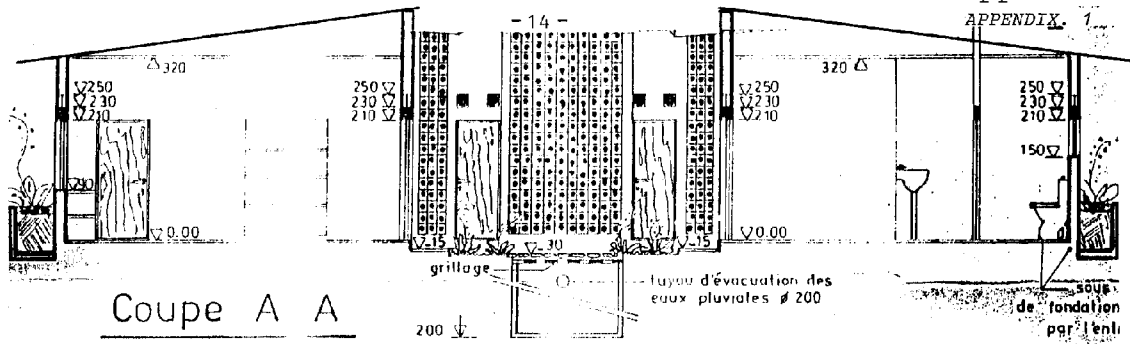
D.E.M.C.O. S.P.R.L

R.C. 24.557
B.P. 2730
BUJUMBURA
TEL. 5651



Façade principale


Appendix I.



TRUST FUND ALLOTMENT REQUEST

Project Symbol: GCP/RAF/271/FIN..... Name of Country Project Officer: M. DOEFF.....Project Budget Code: 011282..... Name of Field Project Officer: G. HANEK.....Last Authorized AA Number: N/A.....Disbursements through: ☒ Project Imprest ☐ UNDP Office ☐ Other:-

DOC. LINE	OBL. EXP.	DESCRIPTION	INCR/DECR. US\$	REQUESTED US\$	NOTES/EXPLANATIONS OF WHICH FPOS US\$
0001	130	TEMPORARY ASSISTANCE		4,000	
0002	35 T	SSA-NATIONAL		9,000	
0003	415	DUTY TRAVEL		3,000	
0004	625	VEHICLES O&M		3,000	
0005	729	COMMUNICATIONS		3,000	
0006	999	MISCELLANEUMS		10,000	
0007	510	CONSTRUCTION MATERIELS		40,000	
0008	799	OTHER FIELD SUPPLIES		10,000	
0009	595	vehicles		35,000	
0010	599	OTHER NON-EXP.EQUIPMENT		25,000	
0011	601	IMPROVEMENT PREMISES		40,000	
		TOTALS:		182,000	

REQUEST	APPROVAL
<p>Please approve the Allotments requested above.</p> <p>G. HANEK  30.11.91</p> <p>Senior Field Project Officer Date</p>	<p>When approved, you will receive the Allotment Advice as produced by FINSYS.</p>

GCP/RAF/271/FIN: WORK PROGRAM FOR 01.01-30.06.1992

ACTIVITES	JAN.				FEBR.				MARCH				APRIL				MAY				JUNE			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1. REHAB/CONSTRUCTION PREMISES																								
1.1 Construction/supervision premises in Bujumbura																								
1.2 Visit Kigoma to specify needs																								
1.3 Rehabilitation in Kigoma																								
1.4 Supervision visits to Kigoma																								
2. REHABILITATION VESSELS																								
2.1 Specify needs R/V ECHO																								
2.2 Rehabilitation R/V ECHO																								
3. EQUIPMENT																								
3.1 Procurement office equipment																								
3.2 Procurement cars																								
3.3 Specify needs scientific equipment																								
3.4 Procurement scientific equipment																								
3.5 Specify needs communication equipment																								
3.6 Procurement communication equipment																								
3.7 Specify needs fishing gear																								
3.8 Procurement fishing gear																								
3.9 Specify needs auxiliary vessels																								
4. PERSONNEL																								
4.1 Finalize SSA civil engineer																								
4.2 Select and hire local support staff																								
4.3 Specify needs consultants Kuopio																								
4.4 Select and hire first two APO's																								
4.5 Select and hire Greek captain																								
4.6 Decide intern.professional staff																								
4.7 Hire international professional staff																								
5. OTHERS																								
5.1 Visit Lusaka and Mpulungu																								
5.2 Revision PRODOC																								
5.3 Preparation Work Programme for July 1992 to June 1993																								
5.4 Preparation first 6 months report																								
6. REPORTS																								
6.1 Reynolds																								
6.2 Consultants - to be specified																								
6.3 First six months report (to include PRODOC revision and scientific programme for July 92 to June 93)																								

GCP/RAF/271/FIN/TRAM/03

Report of Travel
to

Kigoma, Tanzania
(15-20.01.1992)
by

George HANEK
Project Coordinator

GCP/RAF/271/FIN.10

cc: Kato/Doeff, FIO
Fitzpatrick/de Boer, FIIT
Kapetsky, FIRI
Kambona, FIP
Everett/Bonzon, FIPP
Schwela, FIDX
FAOR, Tanzania
Lindquist, Kuopio
Chrono
Diary:Hanek

GCP/RAF/271/FIN

January, 1992

1. INTRODUCTION

1.1 Objective

To visit Kigoma in order to (1) determine the extend of rehabilitation of TAFIRI installations and make all necessary arrangements to start these reparations soonest; and (2) to meet with local authorities to introduce the project, expose its objectives and arrange for their cooperation.

1.2 Itinerary

	Arrival	Depart
Bujumbura		15.01.92
Kigoma	15.01.92	19.01.92
Bujumbura	20.01.92	

1.3 Persons met

Mr. Joshua Kristian Kileo, Regional Development Director
Mr. F.G. Ngonyani, Regional Telecommunications manager
Mr. Seleman Mturuya, Regional Immigration officer

Mr. Kalage, Regional Customs Officer
Mr. A.A. Kabeza, Manager, The National Bank of Commerce

Mr. K.I. Katonda, Director of TAFIRI Kigoma Centre
Mr. M.B.S. Kissaka, Research Officer, TAFIRI
Mr. A.N.I. Kalangali, Research Officer, TAFIRI
Mr. A.D.B. Kihakwi, Research Officer, TAFIRI
Mr. S.L. Mtega, Research Officer, TAFIRI

Mr. N.A. Challe, Skipper of R/V Echo
Mr. J.D. Vaitha, Director, Aqua Products Ltd.

Mr. Lief Larsen, Marine Engineer Advisor (DANIDA)

2. RESULTS

2.1 Rehabilitation of TAFIRI

As stated by Reynolds earlier both the offices and laboratories are very neglected. It would also appear that that the staff of TAFIRI Kigoma has been waiting for this project for years, just waiting... A detailed inspection of all offices, laboratories and R/V Echo was carried out, necessary reparations specified and costed. Since TAFIRI operates a number of houses in Kigoma, these were also visited. An agreement with Director of Kigoma Centre was reached; the project will be given an exclusive use of one large house and quest house, which is located near by. This property will be fenced and the house + quest house rehabilitated.

A number of local merchants was visited and prices of basic construction materials determined. Contrary to my memo (Hanek-Doeff of 10.01.92 refers) all material in Kigoma is cheaper than in Bujumbura. Similar applies to the cost of labor. Consequently, it would appear that the budgetary provision for rehabilitation of TAFIRI installation is sufficient.

TAFIRI' Kigoma Centre Director hopes that the project can start the required rehabilitation asap. It is also my wish since it is feasible to have two centres (Bujumbura and Kigoma) operational within the first six months. Consequently, all arrangements were made to start on 30.02.1992; housing and transport for project's civil engineer is ensured.

2.2 Rehabilitation of R/V Echo

Old FAO 81 was visited; it is not operational since its starter needs to be replaced. A list of spare parts was prepared by our civil engineer; our first FPO for the needed Volvo Penta spare parts is now being finalized. Similarly the dry dock has been arranged for at Tanzania Railways Corporation; we can use it from end February to end April, 1992 (for large vessels the charge is \$100/day). Once the spare parts arrive our civil engineer will do the rest.

2.3 Local arrangements

A number of local officials was visited and project objectives and its eventual needs exposed. It will not be easy; in any case to have only an APO there is clearly not possible. As proposed previously it is essential to have an expert there, full time, since considerable 'human skills' will be required.

Specific arrangements with the local authorities were made as follows:

* communication system - in order to allow the installation of our communication system (**not yet specified by FIIT**) the following procedure will have to be followed: (1) radio licence form is available with TPTC in Dar-es-Salaam; (2) once completed, a request by FAOR/Tanzania must be made through four Ministry' i.e. Ministry of Land, Natural Resources and Tourism to the Ministry of Communication and Transport; and (3) once approved, the Frequency Management Section will assign us a frequency.

* immigration considerations - there should not be too many problems in this area. Tanzanian nationals who might participate on project cruises, etc. , could obtain 'Temporary Pass' which is valid for 3 years and which allows for free movements in all four riparian states. Director of TAFIFI has to request these 'Temporary Passes' for his staff. Other nationals (crew of our research vessel, etc), when in Tanzanian

ports, will be granted 'Local Permits' by Regional Immigration Officer.

* customs considerations - are important since the majority of specialized equipment and other materials and equipment (car, office equipment, etc.) will have to come from Bujumbura either by road or on boat. The project will need a statement to this effect from Treasury Dar-es-salaam, certifying that project is exempt from taxes, etc.

* banking - it is clear that our project will need to open imprest a/c in Kigoma asap. It **is hoped** that **this time FIDX and particularly AFFT can get their act together** This is the procedure to follow: contact International Banking Department of the National Bank of Commerce, P.O. BOX 6826, Dar-essalaam (**telex: 41018 or 41903**) requesting to open imprest a/c for our project with **The National Bank of Commerce, Obed Katikaza Branch, P.O.BOX 75, Kigoma, initially with me as signatory (eventually, this a/c should be managed by our expert in Kigoma).** But since the project has to start rehabilitation of TAFIRI facilities in 10 days or so, **AND IT NEEDS MONEY**, some other way has to be found out, provisionally. **Fortunately**, there is the following possibility. Although Garth Bowman is no longer in Kigoma, the GCP/URT/066/NET imprest a/c is still open (**FAO TF US\$ IMPREST URT/066/1026 A/C NO. 13901**), with Bowman and **Marc Bellemans, who left Kigoma only 5 years ago**, as signatories. Consequently, it would seem that there are two possibilities to get money and start rehab work there: (1) add my name as signatory for Bowman's project imprest a/c and, **at the same time**, replenish that a/c (to start we need \$10,000); or if (1) not possible kindly (2) replenish that a/c + send a nice telex to Marc Bellemans asking him to disburse these funds. Of course, the first option is preferable.

2.4 Summary of agreement with Director TAFIRI Kigoma Centre

* rehabilitation of TAFIRI facilities (offices, laboratories, one house, one guest house) will start asap; if funds could be made available the project's civil engineer will start in Kigoma on 03.02.1992. He will use the quest house and Landcruiser until the rehab works are completed;

* rehabilitation of R/V Echo will be done in two phases i.e. dry docking during end February - end April, 92 and the engine reparation, etc. once spare parts are received;

* TAFIRI will provide the project with one house and quest house; these will be also rehabilitated and made 'secure';

* it was stressed over and over with the Centre'S Director and with his staff that while the project will carry its obligation and will rehabilitate their facilities, thus creating a normal working and hopefully productive environment, it is TAFIRI staff' responsibility to ensure that both equipment and premises are kept in good condition and not vandalized again;

* it was agreed to establish our project 'pouch' between Kigoma and Bujumbura using M/V LIEMBA starting 27.01.1992; this way and until project's communication system is established once a week contact will be possible; and

* a list of equipment which was prepared by Centre' staff will be taken into consideration. The project will provide Kigoma' Centre with the copies of its PRODOC as well as of Lindquist and Mikkola (1989) report.

3. CONCLUSIONS AND FOLLOW-UP

3.1 Urgent replenishment of GCP/URT/066/NET is essential so that rehab works can start. Two options of how to proceed are provided under 2.3 above. Kindly select the most workable one at your earliest convenience.

(Action: SPOO and FIDX)

3.2 The project must have its imprest a/c in Kigoma as soon as possible. Be good enough and open with The National Bank of Commerce, obed Katikaza Branch, P.O. Box 75, Kigoma asap with me as signatory.

(Action: SPOO, FIDX and AFFT)

3.3 Communication system - detailed specifications are required by licencing authorities. FIIT promised to provide them last year. Earliest possible decision is needed.

(Action: FIIT)

Once the above becomes available official request/s will have to be made by local FAO Representation/s.

(Action: Project Coordinator and FAOR's/Burundi, Tanzania and Zambia)

3.4 Equipment - since most specialized and other equipment, intended for Kigoma mpulungu and Uvira, will be initially cleared in Burundi, it **is** importan ' t to secure the necessary documentation which will allow for its transfer to other centers.

GCP/RAF/271/FIN/TRAM/04

Report of Travel
to
Uvira, Zaïre (29.01.92)
and Kigoma, Tanzania (6-7.02.92)
by
George Hanek
Project Coordinator

GCP/RAF/271/FIN.10

CC : Kato/Doeff, FIO
Fitzpatrick/de Boer, FIIT
Kapetsky, FIRI Kambona, FIRI
Everett/Bonzon, FIPP
Schwela, FIDX
FAOR, Tanzania
FAOR, Zaïre
Lindquist, Kuopio
Chrono
Diary : Hanek

GCP/RAF/271/FIN

February 1992

1. INTRODUCTION

1.1 Objective

The objective of these visits was: (1) in Uvira - to meet with C.R.S.N personnel, to introduce the project and to specify and cost rehabilitation of their facilities and (2) in Kigoma - to set up financial and disbursement procedures and to start rehabilitation of TAFIRI facilities there.

1.2 Itinerary

Arrival	Departure	
Bujumbura		29.01.92
Uvira	29.01.92	29.01.92
Bujumbura	29.01.92	06.02.92
Kigoma	06.02.92	07.02.92
Bujumbura	07.02.92	

1.3 Persons met

Mr. Kwetuenda Menga Kuluki, Director, CRSN/Uvira
Dr. Gashagaza Masta Mukwaya, Chief Hydrobiology, CRSN/Uvira
Mr. Mulimbwa N'sibula, Biologist, CRSN/Uvira
Mr. Nshombo Muderhwa, Biologist, CRSN/Uvira
Mr. Tshibangu Kalala, Chemist, CRSN/Uvira
Mr. K.I. Katonda, Director, TAFIRI/Kigoma
Mr. A.A. Kabeza, Manager, The National Bank of Commerce, Kigoma
Mr. A.A. Shariff, Director, Shariff Construction, Kigoma

2. RESULTS

2.1 In Uvira

Detailed discussions were held with the staff of CRSN in Uvira. The situation there is briefly as follows: the station was not affected by the events of September/October 1991 ; there is a considerable number of well qualified scientists and technicians eager to work; the only external support i.e. JICA funded CRSN/Japan Universities Ecological and Limnological Study Project has been suspended and expatriate personnel left; the existing economic situation (US\$ 1 = 100,000 Zr last week) affects everything.

Project Document of our project was discussed; it provides \$15,000 for initial rehabilitation of premises. As apparent from Appendix 1 this is quite insufficient. CRSN personnel is well aware of the sizeable funds this project's budget has for Kalemie. Consequently, it was explained that formal authorization and subsequent PRODOC revision will be needed before some of 'Kalemie funds' can be transferred to Uvira. on the other hand it is quite clear that this project will not be able to work in Kalemie for some time. once that is possible CRSN/Uvira is prepared to transfer some of its staff there.

Further aspects were covered; in particular the need to obtain 'official statements' from authorities (Kinshasa or Bukavu) so that free movement of persons, equipment, etc can be assured. Station's Director promised to assist in this matter (please note: Mr. J. Laubhouet-Akadié, FAO Programme Officer in Bujumbura is being transferred next week to the same post in Kinshasa). I have used this opportunity to specify the project's needs from FAOR/Zaire and from SENADEP.

This station is using HF Band SSB FT 400 C Yaesu Radio to communicate with Lwiro and Kinshasa. As this equipment works very well we should try to purchase a similar, if not the same one.

2.2 In Kigoma

After my initial visit to Kigoma last month (TRAM/03 refers) all efforts were made so that the rehabilitation work of TAFIRI facilities could start as soon as possible i.e. before the big rain season starts. With the kind assistance from Mr. Schwela (FIDX), FAOR/Tanzania, CTA of BDI/90/002 and Bank Manager of The National Bank of Commerce in Kigoma we were able to achieve, in 10 days, something which AFFT has not yet been able to do in 3 months and still counting. Resultingly, the project's civil engineer is now based in Kigoma and rehabilitation of TAFIRI facilities started on 06.02.92. It is scheduled to last 3.5 months.

3. CONCLUSIONS AND FOLLOW-UP

3.1 Rehabilitation of CRSN facilities in Uvira - the cost of rehab work is considerably higher than budgeted for. Once decision is made i.e. allocate some 'Kalemie funds' the project could start almost immediately.

(Action: SPOO, Scientific Coordinator, FINNIDA, Project Coordinator)

3.2 Operational arrangements - It is essential to confirm arrangements by Government of Zaire for free movement of project personnel, equipment and information between the research substations.

(Action: Project Coordinator, Director CRSN, SENADEP, FAOR/Zaire)

3.3 Rehab of TAFIRI in Kigoma - the first amount made available i.e. US \$ 10,750 is about one-third of funds needed to do the job. It is essential therefore that action is taken to replenish GCP/URT/066/NET imprest a/c with about the same amount almost immediately.

(Action: Schwela, FIDX).

3.4. Supervision of rehab works in Kigoma - monthly supervisory visits are required.

(Action: Project Coordinator).

BUDGET ESTIMATIF POUR LA REHABILITATION
DU CRSN ET DES INFRASTRUCTURES D'ACCUEIL

1. PEINTURE DU CRSN

Surface 8200 M² (sur base métré ci-anne) à 800 Fbu /M² 6 650 000

2. TOITURE DU CRSN

Remplacement par des tôles 28 BG

Démontage des tôles existantes + fourniture et pose des nouvelles tôles.

Surface 1150 M² à 5800 Fbu/M² 6 670 000

3. MACONNERIES BETONS CRSN

Forfait 300 000

4. SANITAIRES CRSN

Remplacement 6WC, 10 Lavabos + plomberies et évacuations. 800 000

5. INSTALLATIONS ELECTRIQUES

Forfait estimatif 800 000

6. REVISION DU GROUPE ELECTROGENE

Forfait estimatif 1 100 000

7. REHABILITATION DE GUEST HOUSE EXISTANT

Suivant description en annexe 2 570 000

TOTAL FBU:..... 18 800 000

QUANTITATIF

REHABILITATION DU C.R.S.N. A UVIRA

PEINTURES

CALCUL DES SURFACES (estimatif)

I. EXTERIEURES

1). FACE AVANT

	QUANTITE	M ²
Colonnes 0,5 x 0,5 x 1 DM	10	25
Mur d'entrée		120
Plafon d'entrée		120
Face avant sbparation colonnes		90
Plafond 1er étage		120
Mur d'entré 1er stage		120
Chapiteau		39

2). FACE ARRIERE 330

3). FACE LATERALE GAUCHE 400

4) FACE LATERALE DROITE 400

II.INTERIEURES

1). SALLE DES AQUARIUMS

Fond	50
Mur gauche	30
Face avant	40
Face droite	10
Plafond	100

2) HALL ENTREE

Fond	40
Mur avant	30
Mur gauche	10
Mur droit	30
Plafond	66

3). SALLE DES COLLECTIONS

Fond	50
Mur gauche	30
Face avant	40
Face droite	10
Plafond	100

4). BARZA INTERIEURE

Murs	100
Murs	100
Murs	100
Murs	100
Plafond	80
Plafond	80
Plafond	84

Plafond	36
Colonnes 0,5 x 0,5 x 4M (x12)	12
Murs	110
Entrée arrière	30
5).PIECES GAUCHE REZ-DE-CHAUSSEE	
Laboratoire général	92
Laboratoire Individuel	80
Laboratoire Individuel	80
Laboratoire Individuel	90
Laboratoire Individuel	80
Bureau	90
6). PIECES DROITE REZ-DE-CHAUSSEE	
Laboratoire Chimie	92
Salle des balances	80
Chambre noire	80
Laboratoire Individuel	90
Laboratoire Individual	80
Cage d'escalier	80
7) PIECES FOND 22 M ² X9	198
8). PIECES GAUCHE 1 ER ETAGE TOTAL:	512
9) PIECES DROITE TOTAL:	502
10). PIECES FOND 1 ER ETAGE TOTAL:	198
11). CORRIDOR BIBLIOTHEQUE	80
12). COLONNES (0,5 x 0,5 x 4) x 6	6
13). PLAFOND	80
14). SALLE BIBLIOTHEQUE	108
15). ENTREE BIBLIOTHEQUE	60
16). SECRETARIAT BIBLIOTHEQUE	60
17). ARCHIVES	43
18). APPARTEMENT 22	70
19). APPARTEMENT 22 -BIS-	60
20). APPARTEMENT 22 -TER-	60
21). BALCON	
Murs	93
Plafond	140
Rambarde	146
22). BUREAU DIRECTION	121
23). SECRETARIAT BUREAU DIRECTION	80
24). PHONIE	75
25). BUREAU EXP. SECR.	75
26) BUREAU EXP.	80
27) BUREAU SECR./DIR.	80
28) TOUR CENTRALE	
Face avant	75
Face laterale droite	74
Face laterale gauche	74
Face arrière	46
Interieur rez-de-chaussée	249
Interieur 1er étage	194
Couloir	65
Interieur 2ème étage	56

29) RAMBARDE	81
30) RESERVOIR D-EAU	34
31) DOME	20
32) CAGE D'ESCALIER ARRIERE	50

TOTAL SURFACES PEINTUREC.....8191

TOITURE

Remplacement de la couverture par de la tôle 28 BG

Surface A couvrir : 1152 M²

REPARATIONS DIVERSES

Magonnerie, Bétons

Réparations plafonds.

Colonnes en béton -armé dans la tour (étage supérieur).

SANITAIRES

Remplacement 6 WC, 10 lavabos.

INSTALLATION ELECTRIQUE + GROUPE ELECTROGENE

Remplacement du réseau électrique.

Révision complète du groupe électrogène.

REHABILITATION DU GUEST HOUSE EXISTANT.

Peinture complète

Remplacement des sanitaires

Remplacement des portes et huisseries.

Literie, penderies.

Report of Travel
to
Dar-es-Salaam, Tanzania (26-29.02.92)
and Lusaka and Mpulungu, Zambia (01-09.03.92)

by

George Hanek
Coordinator

GCP/RAF/271/FIN.10

cc: Kato/Doeff, FIO
Fitzpatrick/de Boer, FIIT
Kapetsky, FIRI
Kambona, FIP
Everett/Bonzon, FIPP
Schwela, FIDX
FAOR/Tanzania
FAOR/Zambia
Lindqvist/Mölsä, Kuopio
Chrono
Diary:Hanek

1. INTRODUCTION

1.1 Objective

The objective of these visits was: (1) in Dar-es-Salaam - to meet with DOF, TAFIRI and FAO/Tanzania officials in order to obtain project document signature and to discuss project's work plan for its preparatory phase and (2) in Lusaka and Mpulungu - to meet with DOF and FAO/Zambia officials in order to discuss project's work plan for its preparatory phase and to specify rehabilitation needs for DOF existing facilities in Mpulungu, to select site for construction of new ones and to make all necessary arrangements there to start the work as soon as possible.

1.2 Itinerary

	Arrival	Departure
Bujumbura		26.02.92
Dar-es-salaam	26.02.92	01.03.92
Lusaka	01.03.92	04.03.92
Mpulungu	05.03.92	07.03.92
Lusaka	07.03.92	09.03.92
Nairobi	09.03.92	10.03.92
Bujumbura	10.03.92	

1.3 Persons met

Mr. R.W. Fuller, FAO Representative, Dar
Mr. J. Yonazi, FAO Programme Assistant, Dar
Ms. J. Backhouse, FAO Administrative Assistant, Dar
Mr. T.W. Maembe, Chief Fisheries Officer, DOF/Dar
Prof. P. Bwathondi, Director, TAFIRI
Mr. M. Harrison, Crown Agents Representative, Dar
Mr. F. Livingston, FAO Representative, Lusaka
Mr. B. Thomsen, FAO Programme officer, Lusaka
Mr. A. Balducci, FAO Administrative officer, Lusaka
Mr. G. Mudenda, Director of Fisheries, Lusaka
Mr. G.C. Mwape, PTC Customer Service Manager, Lusaka
Mr. H. Mukadam, Deputy Manager, Standard and Chartered Bank, Lusaka
Dr. R. Mubamba, Chief Fisheries Research Officer, Lusaka
Mr. V. Chipino, Deputy PS, Kasama
Mr. Oluf Martins, Senior Programme Adviser, NORAD, Kasama
Mr. A.S. Chipasha, Provincial Planning Officer, Kasama
Mr. C. Ndonga, Provincial Fisheries officer, Mbala
Mr. H. Phiri, Fisheries Research Officer, Mpulungu
Mr. M. Pearce, Fisheries Research Officer, mpulungu
Mr. D. Kabakwe, Fisheries Development officer, mpulungu
Mr. G. Kamwale, Manager, Standard and Chartered Bank, Mpulungu
Mr. C. Blignaut, Manager, Samaki Fisheries Enterprises, Mpulungu
Mr. R. Bills, Biologist, Samaki Fisheries Enterprises, Mpulungu
Mr. S. Mutema, Manager, Mpulungu Fisheries Limited, Mpulungu
Mr. D. Tselepis, Manager, St. George Fisheries Limited, Mpulungu
Mr. E. Sichinsambwe, Kayemba Builders, Mbala
Mr. A. Caputo, Caputo Construction Limited, Mbala

Mr. M. Banda, Fisheries Assistant, Nsumbu

2. RESULTS

2.1 In Dar-es-Salaam

Like during my last visit to Dar-es-Salaam the importance of having the Project Document signed has been stressed to all. The latest development is that FAOR has sent, on 31.01.1992, yet another six copies of our PRODOC to the Government. This time I was assured by Chief Fisheries Officer (Director of Fisheries was on leave) that he will personally intervene. It was also agreed that once PRODOC is signed Tanzania's representatives for project's Coordination and Scientific Committees will be named immediately.

Considerable effort has been made to confirm arrangements for the free movement of project personnel, equipment and information between research substations. It would appear that the most difficult area will be to arrange for the free movement of equipment; it is required that a complete list of equipment (and its cost) to be used by our project in Kigoma has to be prepared and submitted, through our Representation in Dar-es-salaam, to the Treasury which will then issue the required permits. Tanzania's Posts and Telecommunications Corporation has been visited and 'Application for HF Radio Communication Licence' obtained. Further, the Direction of Surveys and Mapping was visited and a complete set of maps (1:50,000) of Tanzania's coastline of Lake Tanganyika obtained. Lastly, several administrative aspects have been resolved with Ms. Backhouse who has been instrumental of getting project funds to Kigoma.

2.2 In Lusaka and Mpulungu

The entire visit to Zambia was a pleasant surprise; all fisheries officers met, although somewhat young, are very bright, extremely polite and obviously hard working, which, considering the existing economic situation in the country and resulting weak purchasing power of all civil servants, is indeed remarkable. As a result we have been able to accomplish much more than even I was hoping for.

First, our project has been presented to all, in Lusaka, in Chilanga location of Department of Fisheries headquarters), in Kasama (=capital of Northern Province), in Mbala (=location of DOF's regional office) and, of course, in Mpulungu. Work plan for the project's preparatory phase has been outlined and the needs for DOF's assistance specified. Further, like in Tanzania, there will be need to prepare a list of all equipment to be used in Mpulungu; afterwards our FAO office in Lusaka will have to approach ministry of Finance in order to receive the required permits. There is no need to request a licence to operate HF radio; instead the project has to simply inform Posts and Telecommunication Corporation Ltd. once radio equipment has been imported and then PTC will assign us the

frequency. Lastly, a complete set of maps (1:50,000) was obtained for Zambia's coastline of Lake Tanganyika.

As the project will need an imprest account in mpulungu, several banks were visited in Lusaka to find out which one has a branch in Mpulungu. The best one is Standard and Chartered Bank Zambia Ltd ; its Main Branch has P.O. Box 31934, Lusaka and telex ZA 41660/45420. Both its main branch manager as well as that of its branch in mpulungu (P.O. Box 420106) were visited and informed about our project.

Visit to Mpulungu followed in company of Dr. R. Mubamba and Mr. M. Pearce; it is a long and expensive drive from Lusaka (1,165 km one way and if rental car is used it would cost about \$2,000; even when DOF or FAO car is used the cost of petrol and other expenditure comes to some \$400/trip). DOF's Mpulungu facilities were visited, rehabilitation needs specified and sites for new laboratory/office and houses decided on. in all there are 8 distinct jobs as follows: (1) rehabilitation of guest house, (2) construction of 2 B/32 houses, (3) construction of laboratory/office block, (4) reparation of water pump, (5) reparation of jetty, (6) painting of existing buildings, (7) reparation of electricity system, and (8) fencing the whole property. All necessary arrangements for the above were made; the most difficult task will be the reparation of jetty. The work can and should start in May (dry season will start then); it is hoped that AFFT can somehow arrange that project's imprest a/c is opened in Mpulungu by then.

There are four vessels/boats in Mpulungu, belonging to DOF; all are not operational at present. R/V Kapata is an old fibre-glass vessel which is behind rehabilitation. R/V Silver Shore is also old but its steel hull appears to be sound; its cabin needs a complete refit and new engine is required. There are also two fiber-glass skiffs there which are repairable.

Debriefing on our visit to Mpulungu was held with the Director of Fisheries in Lusaka and agreement reached on how the project will proceed. Further, nominations to the project's committees has been received (Attachement 1); Mr. H.G. Mudenda, Director of Fisheries, will serve on the project's Coordination Committee and Dr. R. Mubamba will represent the Zambian Department of Fisheries on the projects International Scientific Committee. Lastly, the Director of Fisheries also named the counterparts as follows: Mr. D. Kabakwe, Administration; Mr. H. Phiri, Stock Assessment; Mr. J. Lupikisha, Statistics; and Mr. L. Mwape, Limnology.

It was also agreed that our project will take advantage of the local expertise and/or of large quantity of fisheries or other data. Initially, the project will arrange for either author's. contracts or use its National Consultant's budget line for the following: (1) to Dr. Mubamba to compile and analyse meteorological and limnological data for the south of Lake Tanganyika; (2) to Mr. R. Bills to prepare report on ornamental

fish trade; and (3) to Mr. M. Pearce to prepare several, not yet specified reports (please note: his ODA contract is up end August, 1992 with no renewal possiblity; 'his' data is important to this project and thus must be obtained) . It was also agreed that it would be very useful to prepare a 'Fisheries Directory of Lake Tanganyika' ; this should include complete listing (addresses, telephone, telex, fax, etc.) of Government officials, private firms, facilities available, fishermen's organisations, project's, etc. Dr. Mubamba agreed to prepare it for Zambia and I will coordinate it for other countries.

Lastly, a rather important point was raised. The Zambian officials would like to see that the project organises a joint meeting of the project's Coordination and International Scientific Committees earlier than originally scheduled. This reflects also the view of other riparian countries. Consequently, I have suggested that this joint meeting should be held about a week after arrival of Lindqvist/Mölsä/Kapetsky to Bujumbura; this way the scientific programme could be presented, discussed and approved by all parties. we will also have these representatives present at the official opening of project's HQ.

3. CONCLUSIONS AND FOLLOW-UP

3.1 Project Document - still has to be signed by Tanzania. Urgent action is called for. Once the PRODOC is signed representatives for project's committees must be named without delay.

(Action: DOF/Dar and FAOR/Dar)

3.2 Application for radio licence - this form should be submitted to Tanzania's Post and Telecommunication Corp. as soon as possible.

(Action: Project Coordinator)

3 . 3 Project Document - copies of PRODOC must be made available to provincial and local officials in Zambia.

(Action: Dr. Mubamba)

3.4 Imprest account in Mpulungu - must be opened as soon as possible with the Standard and Chartered Bank Zambia Ltd. in Mpulungu.

(Action: Doeff, Schwela and AFFT)

3.5 Rehabilitation/construction in Mpulungu - once the costing and proformas become available start this work immediately.

(Action: DOF/Chilanga and Mpulungu, Coordinator)

3.6 Rehabilitation DOF vessels - take advantage of naval architect's visit and specify the needs rehabilitation of vessels in Mpulungu.

(Action: Consultant Oliveira, Coordinator)

3.7 Author's contracts/National consultants - determine the easiest procedure to award contracts to Dr. Mubamba (meteorology and limnology) and Mr. Bills (ornamental fish trade).

(Action: Coordinator, SPOO)

3.8 Involvement of Mr. Pearce - a special arrangements should be made to insure Martin's data and knowledge.

(Action: Lindqvist/Kapetsky/SPOO/Coordinator)

3 . 9 Fisheries Directory - for Lake Tanganyika should be prepared and published in French and English this year.

(Action: Dr. Mubamba, Coordinator)

3.10 Joint Meeting of Project's Coordination and Scientific Committees should be organized and start about a week after arrival of Lindqvist/Melisa/Kapetsky to Bujumbura. Agenda: to discuss and approve project's scientific programme and to take part in project's HQ official opening. TA's should be raised for the following persons: from Zambia - Mr. G. Mudenda and Dr. R. Mubamba; from Zaïre - Dr. Gashagaza Masta Mukwaya and presumably Mr. Sabuni Kasereka; from Tanzania - once PRODOC signed presumably Mr. W. Sichone and Prof. Bwathondi; and from Burundi : Mr. A. Kiyuku and Mr. B.Nyakageni.

(Action: SPOO)

3.11 Next duty travel - should be to Kinshasa immediately after consultant (naval architect) visit.

(Action: Spoo, Coordinator)

Telephone: 278366
Cables: PISCATOR, CHILANGA



In reply please quote
No DF/101/11/10

REPUBLIC OF ZAMBIA
MINISTRY OF AGRICULTURE

DEPARTMENT OF FISHERIES
HEADQUARTERS
P.O. BOX 350100
CHILANGA

6th March, 1992.

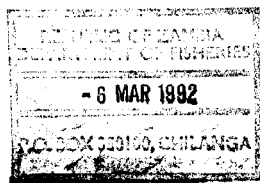
The Project Coordinator,
Research for the Management of
Lake Tanganyika,
FAO
PB 1250
Bujumbura,
BURUNDI.

Dear Dr. George Hanek,

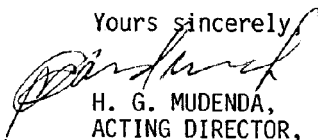
**NOMINATIONS TO THE COORDINATION COMMITTEE
AND INTERNATIONAL SCIENTIFIC COMMITTEE.**

This is in reference to your letter GCP/RAF/271/FIN of 2nd March, 1992 regarding the nominations of the Zambian Government to the Project Coordination Committee and the International Scientific Committee. This is to inform you that I was nominated by the Ministry to serve on the Project Coordination Committee. This message was conveyed in a letter MA/72/7/32 of 24th May, 1991. Copy of this letter is hereby attached for your easy reference.

Regarding our representation on the International Scientific Committee, I have nominated Dr. Raphael Mubamba to represent the Zambian Department of Fisheries on this Committee.



Yours sincerely


H. G. MUDENDA,
ACTING DIRECTOR,
DEPARTMENT OF FISHERIES.

/Attch.

HGM/wm

GCP/RAF/271/FIN/TRAM/06

Report of Travel
to
Kigoma, Tanzania
(31.03.-03.04.1992)

by

George HANEK
Project Coordinator

GCP/RAF/271/FIN.10

cc: Kato/Doeff, FIO
Fitzpatrick/de Boer, FIIT
Kapetsky, FIRI
Kambona, FIP
Everett, FIPP
Schwela, FIDX
FAOR/Tanzania
Bowman, URT/066/NET
Lindquist/Mölsä, Kuopio
Chrono
Diary:Hanek

1. INTRODUCTION

1.1 Objective

The objective of this duty travel was: (1) to inspect, together with Prof. Bwathondi, the rehab efforts of TAFIRI facilities; (2) to inspect, with consultant Oliveira, initial rehab of R/v Echo; (3) to obtain necessary financial records for local imprest a/c; and (4) organize recuperation of TAFIRI historical data.

1.2 Itinerary

	Arrival	De-parture
Bujumbura		31.03.92
Kigoma	31.03.92	03.04.92
Bujumbura	03.04.92	

1.3 Persons met

Mr. K.I. Katonda, Director, TAFIRI/Kigoma
Mr. A.N.M. Kalangali, Fisheries Research officer
Mr. S.L. Mtega, Fisheries Research Officer
Mr. M.B.S. Kissaka, Fisheries Research Officer
Mr. A.D.B. Kihakwi, Fisheries Research Officer
Mr. N.A. Challe, Gear Technologist
Mr. S.P. Minja, Resident Director, The National Bank of Commerce
Mr. A.A. Kabeza, Manager, The National Bank of Commerce
Mr. A.J.M. de Oliveira, Project's consultant (Naval Architect)
Mr. T. Varayannis, Project's civil engineer

2. RESULTS

2.1 Rehabilitation of TAFIRI facilities

Considerable progress has been achieved since this work started on 06.02.92. Project's civil engineer has done excellent job. Resultingly, project's guest house has been completely rehabilitated and is now in condition to receive visitors. Work has also started on adjacent house. Similarly, a considerable progress has been made in renovating TAFIRI offices, laboratories, etc. The security fence of the entire facility is almost completed. The whole job will be completed by the end of May providing project's provisional imprest a/c is replenished soon. Scheduled visit of Prof. Bwathondi did not take place since Air Tanzania flight was canceled.

2.2 R/V Echo

Project's civil engineer arranged for dry docking earlier in March in order to inspect and paint the vessel. Inspection revealed the need to replace shaft bracket. Project's consultant also inspected R/V Echo and will report shortly.

2.3 Project's Kigoma imprest

Bank statement of our provisional a/c was obtained; as reported earlier, it shows that equivalent of US\$15,750 was transferred from URT/066/NET imprest a/c. It should be corrected at source of error e.i. in Dar-es-salaam, with the next replenishment. Since the CTA of URT/066/NET should be in post by now there is no need to open separate imprest a/c in Kigoma. It is necessary, however, to ensure that HQ's authorizations/remittances are acted upon in Dar-es-salaam. The fastest way to replenish imprest a/c in Kigoma is to simply call either Mr. S.P. Minja, Resident Director of NBC in Kigoma (tel.: 2565) or Mr. A.A. Kabeza, Manager of NBC in Kigoma (tel.: 2210); both are very cooperative and try to help the project as much as possible.

2.4 TAFIRI historical data

As already stated by Reynolds there is a great deal of records, data, etc. in different stages of deterioration in TAFIRI/Kigoma. There are also other sources of records, data, etc. in Kigoma and Rukwa which can be obtained for the project. Consequently, it was agreed to assemble, compile and present the available data, under a series of author contracts, as follows:

- * Artisanal and industrial fisheries of Kigoma Region by K.I. Katonda and A.N.M. Kalangali
- * ornamental fish trade in Kigoma Region by K.I. Katonda and A.N.M. Kalangali
- * Water quality of Lake Tanganyika in Kigoma Region by S.L. Mtenga and M.B.S. Kissaka
- * Meteorological Parameters of Kigoma Region by A.D.B. Kihakwi, S.L. Mtenga and M.B.S. Kissaka
- * Fisheries statistics of Kigoma and Rukwa Regions by K.I. Katonda, A.N.M. Kalangali, S.L. Mtenga, M.B.S. Kissaka and A.D.B. Kihakwi
- * Catalogue of fishing gear in Kigoma Region by N.A. Challe, M.B.S. Kissaka and A.D.B. Kihakwi

According to local sources there used to be a large amount of length frequency data (*L. miodon* and other species) in TAFIRI/Kigoma. Apparently these have been sent to TAFIRI HQ in Kunduchi. Naturally, all efforts will be made to secure these data for the project.

3. CONCLUSIONS AND FOLLOW-UP

3.1 Rehabilitation of TAFIRI facilities - is going very well and if the funds are made available on time the job could be done by the end of this May. It is essential that Admin. Officer at FAO/Dar-es-Salaam office contacts NBC/Kigoma officials by phone each time once new remittance for this project is received.

(Action:SPOO, Schwela (FIDX) and Admin.Officer/FAO-Dar)

3.2 R/V Echo - spare parts for Volvo Penta have been received; once new shaft bracket is received R/V Echo should be transported to Bujumbura and repaired there.

(Action:Project Coordinator and Civil Engineer)

3.3 Historical data - stored in TAFIRI/Kigoma and/or available elsewhere in Kigoma and Rukwa Regions must be secured for this project through a series of author contracts to be completed within the next 3-4 months. All efforts should be made to secure length frequency data which are apparently with TAFIRI/Kunduchi.

(Action:Project Coordinator and SPOO)

Report of Travel
to
Kinshasa (15-18.04.92)
and to
Kalemie (06.05.92)

by

George Hanek
Project Coordinator

GCP/RAF/271/FIN.10

cc: Kato/Deff, FIO
Fitzpatrick, de Boer, FIIT
Kapetsky, FIRI
Kambona, FIP
Everett, FIPP
FAOR/Zaire
Lindqvist/Mölsä, Kuopio
Chrono
Diary: Hanek

1. Introduction

1.1 Objective

The objective of this duty travel was: (1) in Kinshasa : to present the project to the authorities, to make the necessary arrangements to ensure the free movement of personnel, equipment and information among the substations, and to discuss the possibilities of establishing the project in Uvira and Kalemie; and (2) in Kalemie to determine the possibilities to establish project's substation.

1.2 Itinerary

	Arrival	
Bujumbura		15.04.92
Brazzaville	15.04.92	16.04.92
Kinshasa	16.04.92	18.04.92
Brazzaville	18.04.92	18.04.92
Bujumbura	18.04.92	06.05.92
Kalemie	06.05.92	06.05.92
Bujumbura	06.05.92	

1.3 Persons met

Mr. M. I. Ngcm, FAD Representative to Congo
Mr. Li Zhenhuan, FAD Representative to Zaïre
Mr. J. Laubhouet-Akadié, Assistant FAO representative to Zaïre
Mr. Sabuni Kasereka, Director, SENADEF
Mr. D. Detsimas, fisherman
Mr. A. Kimpono Shita, Administrator, FILTISAF
Mr. A. Tshibangu Katumbayi, Accountant, FILTISAF

2. RESULTS

2.1 in Kinshasa

our project has been introduced to the authorities. As in all other participating countries an official nomination for the project Coordination Committee has been solicited and obtained. Mr. Sabuni Kasereka will represent Zaïre on project's Coordination Committee. It should be noted that Dr. Gashagaza Masta Mukwaya, Chief of Hydrobiology at CPSN/Uvira has been already to represent Zaïre on project's International Scientific Committee.

Due to political situation in the country it is not possible to start construction in Kalemie as previously scheduled. Different possibilities were discussed. It would appear that the most workable option would be to establish project's substation in the existing facilities of CRSN in Uvira; some funds previewed for the construction of project's facilities in Kalemie could be used to make the urgently needed rehabilitation of CRSN in Uvira. Further, and as previously reported, the personnel of CRSN/Uvira could be used to work, on rotation basis, in Kalemie. This way the project could be operational in Zaïre almost immediately. Lastly, two agents of SENADED have been dy named to work with the project, one in Baraka and the other in Kalemie. rIb have this work a facility to house the CMN and SENADED persomel are required. For that a short visit to Kalemie was organized; its results follow.

2.2 in Kalemie

The project has already established contact in Kalemie prior to this visit. He is Mr. Detsimas, who has fished in Kalemie since 1954 and has a considerable knowledge of this industry, actually the only one fonctionning in a city which was seriously damaged during last September/October events. The industrial fleet in Kalemie is composed of 14 units; the production is estimated at 40-50t/fishing unit/campagne (= 20-22 fishing nights) i.e. considerably higher than in other areas around the lake. There is a great demand for fish in Kalemie and what is not sold fresh or smoked is frozen and send to Lumumbashi by train. According to Mr. Detsimas, virtually all is Lates stappersi; Limnothrissa miodon and Stolothrissa tanganicae not being caught during the last two years.

A detailed discussions were held with the responsables of FILTISAF. There are three available houses which belong to FILTISAF and which are suitable to our needs. While all three have been looted last year, the company is ready to restore and equip. The rental rates are \$530/month for the first two houses (Nos. 5 and 58 respectively) and \$450/month for the house 39. The first two are better suited to our needs. If longer term rental is proposed, some reduction should be possible.

3. CONCLUSIONS AND FOLLOW_UP

3.1 Propose the above solution to project's Coordination Committee.

(Action:Project coordinator)

3.2 Maintain contacts with Mr. Detsimas and FILTISAF.

(Action: Project Coordinator)

GCP/RAF/271/FIN/TRAM/08

Report of Travel
to
Kigoma, Tanzania
(28.06.92-29.06.92)

by

E. Coenen

G. Hanek

and

Biostatistician

Project Coordinator

GCP/RAF/271/FIN.10

cc: Kato/Doeff, FIO
Kapetsky, FIRI
FAOR, Tanzania
Bowman, URT/066/NET
Lindqvist/Mölsä, Kuopio
Chrono
Trams

1. INTRODUCTION

1.1 Objective

The objective of this duty travel was: (1) to inspect, with Mr. T. Varayannis, the project's civil engineer, the rehabilitation works of the TAFIRI facilities and to make arrangements for the finalization of these works; (2) to solve, with Mr. G. Bowman, CTA of URT/066/NET, a misunderstanding about the URT/066/NET's imprest account, caused by the double use of it by the two projects; (3) to check on the progress of the compilation of historical data by TAFIRI staff; (4) to discuss with Mr. Vaitha, Director of Aquaproducts Ltd., ornamental fish trader in Kigoma, the modalities of the planned meeting of ornamental fish traders during the last trimester of 1992.

1.2 Itinerary

	Arrival	Departure
Bujumbura		28.06.92
Kigoma	28.06.92	29.06.92
Bujumbura	29.06.92	

1.3. Persons met

Mr. M.B.S. Kissaka, Fisheries Research Officer, TAFIRI/Kigoma
Mr. A.D.B. Kihakwi, Fisheries Research Officer, TAFIRI/Kigoma
Mr. S.L. Mtega, Fisheries Research Officer, TAFIRI/Kigoma
Mr. S.K. Muhoza, Senior Technician, TAFIRI/Kigoma
Mr. E.W. Lyoba, Principal Laboratory Technician, TAFIRI/Kigoma
Mr. G. Bowman, CTA, GCP/URT/066/NET, Kigoma
Mr. A. Shariff, Contractor, Kigoma
Mr. Vaitha, Director, Aquaproducts Ltd., Kigoma

2. RESULTS

2.1. Rehabilitation of TAFIRI facilities

Together with the project's civil engineer, Mr. T. Varayannis, a final inspection of the rehabilitated premises was executed. Apart from some small finishing jobs, the rehabilitation of all the premises (guesthouses, TAFIRI office and laboratory blocks) looked perfectly done. During the inspection tour of the TAFIRI office blocks, it was noticed that several windows and doors were missing mosquito nets. Apparently, it had not been put in the job description for the contractor. Therefore, it was agreed that the project's civil engineer would stay a few more days to arrange for the placement of the mosquito nets and to supervise the execution of the last minor jobs before paying the local contractor, Mr. Shariff.

2.2. Double use of GCP/URT/066/NET Imprest account

While awaiting a proper imprest account in Kigoma, the project had been authorized to channel money through the GCP/URT/066/NET imprest account for the payment of the ongoing rehabilitation works. Through this double use of the same account, some problems had arisen with the amounts to be charged to each project. Together with Mr. G. Bowman, CTA of above project, a visit was paid to the National Bank of Commerce and the problem, based on some misunderstanding, was solved immediately.

2.3. Historical data

During the last visit of the Project Coordinator to Kigoma (see GCP/RAF/271/FIN/TRAM/06) from 31/3 to 3/4/1992, it was agreed that several TAFIRI researchers would start to assemble, compile and present the available historical data for the Kigoma and Rukwa Regions in several reports.

During this visit, the progress of the historical data collection was checked :

- the draft reports on the "Artisanal and industrial fisheries of Kigoma Region" (by Katonda and Kalangali) and on the "Catalogue of fishing gear in Kigoma Region" (by Challe, Kissaka and Kihakwi) were supposedly ready. However, this could not be checked since some or all of the authors were absent during the time of our visit;
- the draft report on the "Water quality of Lake Tanganyika in Kigoma Region" (by Mtega and Kissaka) was ready and was taken back to Bujumbura for checking;
- the draft reports on "Ornamental fish trade in Kigoma Region" (by Katonda and Kalangali), on "Meteorological parameters of Kigoma Region" (by Kihakwe, Mtega and Kissaka) and on "Fisheries Statistics of Kigoma and Rukwa Regions" (by Katonda, Kalangali, Mtega, Kissaka and Kihakwi) were still in the stage of data assembling and compilation.

It was stressed that these reports should be finalized as soon as possible and that data for the Rukwa Region should be assembled for all the topics (and not only concerning the fisheries statistics). Mr. Mtega, who paid a visit to the Rukwa Region to assemble the fisheries statistics data for that Region, only got hold of the statistical data as from 1986. Data before 1986 were not available and will probably have to be obtained from the Annual Reports (available in Dar es Salaam ?).

The curriculum vitae (CV's) of Mr. Lyoba, Principal Laboratory Technician, and of Mr. Muhoza, Senior Technician, were obtained for filing purposes at project headquarters in

Bujumbura. The two other missing CV's (of Mr. Mayaru, Technician, and of Mr. Nombo, Second officer Head of Fishing/Skipper) could not be obtained as they had been transferred to Dar es Salaam. They will be replaced by Mr. D.B.R. Chitamweba and by Miss C.S.P Msege.

2.4 Ornamental Fish Trade

Before leaving Kigoma, a visit was paid to Mr. Vaitha, Director of Aquaproducts Ltd., a Kigoma based company involved in the capture and export of ornamental fish from Lake Tanganyika. He was informed about the planned meeting (to be organized by the project, probably during the last trimester of 1992) for the ornamental fish traders around Lake Tanganyika.

It was stressed that only through a joint action something could be done to initiate the banning of damaging practices of certain ornamental fish traders around the lake, especially in Zaire. Also, during the meeting, common problems could be discussed, fixed prices for certain species could be proposed, some resolutions could be adopted for transmission to the governments of the countries sharing Lake Tanganyika and a management proposal for the ornamental fish trade could be developed.

3. CONCLUSIONS AND FOLLOW-UP

3.1 Rehabilitation of TAFIRI facilities - check accounts concerning payment of Kigoma contractor and overall rehabilitation expenditures.

(Action : Project Coordinator and Admin. Assistant Project)

3.2 Historical data - check quality of first draft received and follow-up timely submission of other drafts (Action : Biostatistician)

3.3 Ornamental Fish Trade - contact R. Bills for assembling baseline information on ornamental fish exporters around Lake Tanganyika and prepare for organization of planned meeting. (Action : Project Coordinator and Biostatistician)

GCP/RAF/271/FIN/TRAM/09

Rapport de Voyage
à
Mpulungu, Zambia
(07.07.92 - 20.07.92)
par
T. Varayannis
Ingénieur Civil (SSA)

GCP/RAF/271/FIN.10

cc: Kato/Doeff, FIO
Mudenda, DOF, Chilanga
FAOR, Lusaka
Lindqvist/Mölsä, Kuopio
Chrono
Trams

1. INTRODUCTION

1.1 Objectif

L'objectif de cette mission était d'inspecter tout d'abord les bâtiments et les bateaux du Département des Pêches de la Zambie à Mpulungu et d'estimer ensuite le coût des travaux prévus pour la réhabilitation des bâtiments. Au cours de cette mission, j'étais accompagné par Mr. Shariff, l'entrepreneur qui a déjà terminé les travaux de réhabilitation à Kigoma, Tanzanie.

1.2. Itinéraire

	Arrivée	Départ
Bujumbura		07.07.92
Mpulungu	10.07.92	17.07.92
Bujumbura	20.07.92	

1.3. Les personnes rencontrées

Mr. H. Phiri, Fisheries Research Officer, DOF, Zambia
Mr. M. Pearce, Fisheries Research Officer, DOF, Zambia

2. RESULTATS.

Au cours de notre séjour à Mpulungu, nous avons inspectés les différents bâtiments à réhabiliter et nous avons constaté que:

- le toit et le plancher de la Maison d'Accueil (Guest House) sont à refaire;
- la pompe de la centrale d'eau est cassée;
- il faut renouveler la peinture, réparer les installations électriques et les installations sanitaires de tous les autres bâtiments; et
- construire une extension du laboratoire; son emplacement est déjà déterminé.

3. CONCLUSION ET RECOMMANDATIONS

Après avoir visité les bâtiments du Département des Pêches

- en compagnie de MM. Phiri, Pearce et Shariff, ce dernier a fait un devis (voir copie en annexe) des travaux de réhabilitation, savoir:
- réhabilitation de la Maison d'Accueil (Guest House);
- l'extension du Laboratoire;
- la construction d'une maison ("staff house");

- la réparation des installations électriques;
- la réparation des installations d'eau et des installations sanitaires; et
- le repeint de tous les bâtiments.

Pour ce qui est des bateaux du DOF, les points suivants sont à signaler:

R/V KAPATA: Il est nécessaire de:

- le faire sortir de l'eau pour pouvoir inspecter le dessous de la coque (fibre de verre);
- le nettoyer et repeindre;
- réhabiliter complètement l'intérieur et l'extérieur; changer les deux moteurs, 180 CV diesel chacun ;
- refaire les installations électriques et électroniques; et
- placer les instruments de navigation.

R/V SILVER SHOAL, Il est nécessaire de:

- le faire sortir de l'eau afin de pouvoir inspecter le dessous de la coque métallique;
- décapiter l'extérieur et l'intérieur et repeindre le tout; réhabiliter l'intérieur et l'extérieur;
- remplacer le moteur 150 CV diesel;
- refaire les installations électriques et électroniques; et
- placer les instruments de navigations;

N.B. Le bateau R/V SILVER SHOAL est le mieux indiqué pour la recherche régionale. Toutefois, il n'est pas apte de faire de longs voyages sur le Lac Tanganyika pour la simple raison qu'il est petit et que le lac peut être très agité, surtout dans la partie sud.

Autres bateaux

Il y a encore 2 petits bateaux en fibre de verre (longueur environ 8 m) qui ont besoin d'être réparés, peints et équipés d'un moteur diesel d'environ 30 CV diesel ("in-bord") chacun pour les rendre opérationnels.

Pour les travaux de rehabilitation des bâtiments du DOF à Mpulungu, Zambie, il sera nécessaire d'acheter tout le matériel de construction à Lusaka. Pour ce faire, il est indispensable que l'ingénieur civil du Projet accompagne l'entrepreneur à Lusaka afin de s'assurer de la bonne qualité du matériel à acheter. Le transport de ce matériel vers Mpulungu devra être assuré par des véhicules du DOF, Lusaka, Zambie.

Les autres besoins urgents pour Mpulungu sont:

- une nouvelle pompe à eau pour l'alimentation des batiments en eau;
- une camionnette diesel; et
- un frigo et d'autres équipements pour la Maison d'Accueil (Guest House).

GCP/RAF/271/FIN/TRAM/10

Report of Travel
to
Dar-es-Salaam (Tanzania)
and
Lusaka, Chilanga and Mpulungu (Zambia)
(26.07.92-09.08.92)

by

E. Coenen
Biostatistician

GCP/RAF/271/FIN.10

cc : Kato/Doeff, FIO
Kapetsky, FIRI
Mudenda, DOF, Chilanga
Phiri, DOF, Mpulungu
FAOR, Tanzania
FAOR, Zambia
Lindqvist/Mölsä, Kuopio
Chrono
Trams

GCP/RAF/271/FIN

August, 1992

1. INTRODUCTION

1.1 Oblective

The objectives of this mission were (1) to make the project's imprest account in Mpulungu operational; (2) to discuss the rehabilitation of the Mpulungu Fisheries Department's premises; (3) to check the progress of the collection of historical data; and (4) to check on several pending administrative and practical project matters.

1.2 Itinerary

	Arrival	Departure
Bujumbura		26.07.92
Dar-es-Salaam	26.07.92	27.07.92
Lusaka	27.07.92	30.07.92
Kasama	30.07.92	31.07.92
Mpulungu	31.07.92	04.08.92
Mpika	04.08.92	05.08.92
Lusaka	05.08.92	08.08.92
Dar-es-Salaam	08.08.92	09.08.92
Bujumbura	09.08.92	

1.3. Persons met

Mr. S. Najam, FAO Repres. a.i., Dar-es-Salaam, Tanzania
Mr. J. Yonazi, FAO Programme Assistant, Dar-es-Salaam
Ms. J. Backhouse, FAO Administrative Assistant, Dar-es-Salaam
Mr. F. Livingston, FAO Representative, Lusaka, Zambia
Ms. N. Springer, FAO Senior Programme Officer, Lusaka
Mr. H.G. Mudenda, Director of Fisheries, Chilanga, Zambia
Mr. J. Lupikisha, Fisheries Research Officer, Chilanga
Mr. H. Phiri, Fisheries Research Officer, Mpulungu, Zambia
Mr. D. Kabakwe, Fisheries Development Officer, Mpulungu
Mr. M. Pearce, Fisheries Research Officer, Mpulungu
Mr. C. Blignaut, Manager, Samaki Fisheries Ent., Mpulungu
Mr. R. Bills, Biologist, Samaki Fisheries Ent., Mpulungu
Mr. G.B.C Kamwale, Manager, Standard & Chartered Bank Zambia Limited, Mpulungu Sub Branch, Mpulungu
Mrs. A.R. Banda, Librarian, Fisheries Department, Chilanga
Mr. G.J. Hall, Group Sales & Marketing Manager, Nippon Motor Sales Zambia Ltd., Lusaka

2. RESULTS

2.1. Operational Project's imprest account in Mpulungu

In order to start the rehabilitation works of the premises of the Fisheries Department in Mpulungu where the project's substation for Zambia is situated, it was necessary to make the project's imprest account operational. The instruction to open the account, entitled "FAO TRUST FUND IMPREST ACCOUNT GCP/RAF/271/FIN - 01128211, was already given by AFFT, FAO (Rome) , to the Standard.& Chartered Bank Zambia Limited, Mpulungu Sub Branch, on 08.04.92.

Three matters had to be checked and followed up : (1) did the Mpulungu Bank receive the instruction from AFFT, FAO Rome (letter dated 02.07.92), to add Coenen on the signatory list and deposit a specimen signature ?; (2) was the initial replenishment of 34,750 US dollars (PCM 28568) to the account effected by UNDP, Zambia, as requested by FAO, Rome (telex 046699 of 25.06.92) ?; and (3) a cheque book for the account had to be obtained in order to allow expenditures for the renovation works in Mpulungu.

Although the Mpulungu Bank had not received the instruction nor the replenishment (see 1 and 2 above, respectively), these problems were solved through the kind assistance of FAOR, Lusaka and my visit to the Bank Manager in Mpulungu. The cheque book was obtained on 04.08.92.

Back in Lusaka, it was found out that UNDP, Lusaka had taken action on 31.07.92 for the transfer of the initial replenishment of 34,750 US \$ at a rate of 158 K-n per US dollar (July rate), amounting to 5,490,500 K-n. If UNDP would have authorized the transfer one day later, a rate of 171 K-n per US dollar (August rate) or a total replenishment of 5,942,250 K-n would have been received (an unnecessary loss of 451,750 K-n)!!!

On the question if the bank was giving an interest on the money in the imprest account, the Bank Manager replied that no interest was given on a current account, but that interest rates up to 40 % were given on savings accounts (money deposited for 1, 2 or 3 months).

2.2. Rehabilitation of Mpulungu premises

During his last visit to Mpulungu from 07 - 20.07.92 (Varayannis, GCP/RAF/271/FIN/TRAM/09 refers), Mr. T. Varayannis, the project's civil engineer, accompanied by Mr. Shariff, the contractor from Kigoma (Tanzania) , who successfully completed the rehabilitation works of Kigoma substation, inspected the premises of the Fisheries Department in Mpulungu, checked on prices of construction materials to be bought in Lusaka and prepared a quotation (see annexe of TRAM/09 above) for the renovation works

amounting to 10,995,511 K-n or 64,301 US \$ (1 US \$ = 171 K-n or Zambian Kwacha, UN exchange rate August 1992).

The renovation works will include : rehabilitation of the rest house, ablution block and training school; construction of an extension (2 extra offices) for the office block; construction of one new staff house and the renewal of the water reticulation system. For the latter, a new pump will have to be purchased (cost not included in above quotation). Based on experience by other people in Mpulungu, the purchase of a submersible pump would appear to be the best and most convenient solution. While in Lusaka, the author obtained quotations for submersible and/or borehole pumps from different suppliers (Agriculture Farmers Equipment Ltd. ; AD McLean & Co. Ltd.) ranging between 200,000 and 700,000 K-n (or 1,200 and 4,100 US \$).

Mr. G. Mudenda, acting Director of Fisheries, agreed with the above quotation for the renovation works and the purchase of a submersible pump and gave his OK for the works to start soonest. He reconfirmed that the Fisheries Department would avail a lorry (Mitshubishi 7 tonnes) plus driver and lorrymate to the project in order to transport the construction materials, to be purchased in Lusaka, by road to Mpulungu (about 1,200 km), on the condition that the project provides for diesel and the night allowance for the driver and lorrymate. He also agreed to send instructions to Mpulungu to notify the Japanese researchers (now staying in the Guest House) that they should move to the Training School dormitories once the renovation works of the Guest House are about to start. Lastly, he has agreed, in writing, to provide housing, in one of the DOF's houses, for the LTR expert in Mpulungu.

2.3. Historical data

During the last visit of the Project Coordinator to Zambia (see GCP/RAF/271/FIN/TRAM/05) from 01 to 09.03.92, it was agreed that :

- Dr. Mubamba would compile and report on the meteorological and limnological historical data for the Zambian part of Lake Tanganyika;
- Mr. Bills would prepare a report on the ornamental fish trade for Lake Tanganyika; and
- Mr. Pearce would contribute to assemble all the historical fisheries data available in Mpulungu.

During a meeting with Mr. Mudenda, two extra CV's were received (Mr. H. G. Mudenda, acting Director DOF; Mr. P.C. Moonga, Deputy Director of Natural Resources) and the following topics and authors for the historical data of the Zambian waters of Lake Tanganyika were reconfirmed/agreed upon :

- Dr. Mudenda : meteorological and limnological data (the status of progress was unknown since Dr. Mudenda was on leave);

Mr. Lupikisha : will compile a report on fisheries statistics including frame and catch assessment data. During a discussion with Mr. Lupikisha it was stressed that this report should contain a section on the view of the Zambian Department of fisheries on the standardization and harmonization of fisheries statistics for Lake Tanganyika. Since the project will organize a seminar on the latter topic, it was considered very important for the four countries to express in advance their views on the ways and means of standardization/harmonization. Although one cannot expect the four riparian countries to adopt a standard system of fisheries data collection for Lake Tanganyika, it can at least be expected that the four countries agree on a minimum number of standardized statistical units (e.g. catch/boat/day or catch/net/day, etc.) to be used; on a minimal frequency that certain sample surveys should be undertaken; on some standardization of fisheries data collection procedures; on the minimal number and quality of comparable (compatible) statistics which should be produced and presented each year (preferably using a same format) to allow for the calculation of annual fisheries statistics for the whole of Lake Tanganyika, etc.

- Mr. Kabakwe : will prepare a fishing gear catalogue for the Zambian waters of lake Tanganyika;

- Mr. P. Kasangala (fisheries economist, based in Chilanga) : will prepare a report on the history and evolution of the artisanal and industrial fisheries of the Zambian waters of Lake Tanganyika.

After a discussion with Mr. Phiri and Mr. Pearce on the statistical data collection system for catch assessment and frame surveys in the four strata of the Mpulungu and Nsumbu Regions, an assessment was made of the quantity, location and availability of fisheries data collected since 1962 in the Zambian waters of Lake Tanganyika. All the original data are to be found in the office shared by Mr. Phiri and Mr. Pearce:

- about 25 % of all these data has been put on computer (Rbase software) , especially catch records and length frequency data from 1980 onwards. These computer files are also used in Chilanga (Open Access and dBaseIII plus software) and are loaded on the IBM Main Frame Computer of the ministry of Finance (SPSS and dBaseIII plus software);

- the remaining 75 % of the original data are still on paper of which copies of data on catch records; length frequencies; catch assessment; market statistics and gill net survey results have been sent to Chilanga. However, the originals of data on limnology/meteorology; gonad studies; food habit

and plankton studies; and recent survey data are to be found in Mpulungu only.

Summary tables for several data sets on catch assessment statistics; not weighted length frequencies; catch and market records have been prepared in Mpulungu and Mr. Pearce will publish them in his final report (which he is now preparing; his NTE is 09.09.92) for ODA and the Department of Fisheries. Mr. Pearce promised to avail copy of his final report to the project.

A list of several unpublished reports and papers, of which copies are available in Mpulungu was drawn up together with Mr. Pearce (see Annexe 1). These bibliographic references will be inputted in the database of the projects Documentation Centre. Physical copies of these reports for the projects Documentation Centre will have to be made later, once the project's limnologist is posted in Mpulungu.

In Chilanga, a visit was paid to the Library and the Museum copies/reprints of the Fish.Res.Bull. Zambia, Annual Reports, etc. were received for the project's Documentation Centre, for which we owe many thanks to the Director of Fisheries.

2.4. Various administrative and practical project matters

While in Dar and Lusaka, the matter of obtaining customs clearance for the transfer of project equipment by boat to Kigoma (Tanzania) and Mpulungu (Zambia) stations was discussed. For both countries, it appeared to be impossible to receive a blank clearance for several shipments. For each shipment, a detailed inventory of equipment has to be submitted through the local FAO Representation to the Customs Head Office to obtain clearance.

Also the matter of obtaining flight clearance in both countries for the execution of the planned aerial frame survey around Lake Tanganyika at the end of September 1992 was followed up. Requests for clearance were being prepared in the respective FAO Representations for submission to the government authorities.

Regarding the clearance procedure for installing high frequency radios at different stations in the various countries: (1) for Zambia, a request can be made through the local FAO Representation on the condition that the project submits the technical specifications of the radios to be installed, their envisaged location, etc.; (2) for Tanzania, the procedure should be dealt with by the Tanzanian Fisheries Department/TAFIRI.

Copies of the respective FAOR requests for Government clearance for Ms. H.P. Kurki (for an APO project post in Kigoma; letter dated 22.06.92) and for Mr. P.D. Plisnier (for the project's limnologist post in Mpulungu; letter dated 24.07.92) were obtained. since no replies had been received

yet, the follow up by the respective FAOR offices was demanded. FAOR, Dar confirmed that no clearance request had been received yet from FAO, Rome for Mr. P. Mannini for the fisheries biologist post in Kigoma. They also noted that future requests from FAO, Rome should specify the proposed duration of the assignment. Mr. Mudenda, Director of the Zambian Fisheries Department, confirmed that the Department had already given a positive advise to the clearing Ministry on Mr. Plisnier's candidature.

In Dar as well as in Lusaka, in view of purchasing project Toyota vehicles for Kigoma and Mpulungu, the local Toyota dealers were contacted to obtain information on Toyota models available, models in stock, price quotations and delivery time for models not in stock. The Dar Toyota dealer had only 2 models in stock:

- (1) Landcruiser Station Wagon STD, price about 28,000 US \$;
and
- (2) Landcruiser Station Wagon GX, price about 30,000 US \$.

Delivery time for other models to be ordered from Japan would be around 6 months. The Lusaka Toyota dealer did not have any models in stock : the requested Toyota Hilux, double cabin model could be ordered from Japan (diesel, delivery time about 6 months; the alternative would be to order a petrol version, assembled (and using different parts) in one of the countries in southern Africa (delivery time 2-3 months, price CIF Lusaka around 20,500 US \$, using 1 US \$ = 2.80 R).

For the rehabilitation of the two smaller research vessels in Mpulungu (R/V Kapata and R/V Silver Shore), the total renovation costs were estimated to exceed 100,000 US \$, well above the budget available in the project. Therefore, more information was sought on three new engines (provided for by the Fisheries Development Worldbank Project, Credit No. 1529-O-ZA) for these vessels which apparently are stored in the Fisheries Department stores in Chilanga. When asked about it, Mr. Mudenda, Director of Fisheries, confirmed the presence of these engines (they arrived about three years ago) but he added that on arrival of the engines, it was observed that several parts had gone missing. Since then an insurance claim had been initiated, but the procedure had not come to an end yet. And for that reason, the engines could not be used for any purpose. He therefore requested the project to initiate the renovation of at least one vessel, the R/V Silver Shore. The R/V Kapata renovation could possibly be supported by above Worldbank Project and/or by the 'Biodiversity' project. More light on the situation of the engines and the possible renovation of R/V Kapata might be available soon, pending the final report of the Fisheries Development Project IDA Supervision Mission (July/August 1992).

While in Mpulungu, the condition of the house for the project limnologist was assessed together with Mr. M. Pearce, who is still occupying the house up to the beginning of September 1992 (his actual NTE as fisheries biologist with the Department of Fisheries/ODA) or at the latest up to the beginning of December 1992 (all depending on his possible transfer to the NORAD Fishery Project on Lake Kariba). The house, situated on the compound of the Fisheries Department in Mpulungu, is a government house in need of the following repairs/renovation works : replace 2 square meters of window glass and one ceiling board; replace one cracked WC pan and 2 door locks; placement of several electrical plugs and wall tiles (materials are available); welding of pipe of electrical water heater; several small cement works (one bag); repainting of one room; and the placement of mosquito gauze in all window frames.

In Mpulungu, two of the ten fishing companies, SOPELAC Fishing Enterprises Ltd. and SAMAKI Fisheries Enterprises were contacted. Their processing and freezing units were visited. At Samaki Fish. Ent., a fishing vessel (St. Dimetrios LT 24) was viewed (**PLEASE NOTE:** the company will probably sell the vessel because it is too big, and therefore consuming a lot of diesel as compared to the other smaller vessels with a similar fishing capacity) because it might interest the project to purchase and convert it into a research vessel. The technical data of the St. Dimetrios are the following : length around 20 m; width around 4.5; flat bottomed steel hull, 5 years old, 3 years in operation; one Caterpillar Marine V8 - 450 HP engine; maximum speed: 12-13 knots; diesel tanks capacity: 18,000 litres; average diesel consumption at around cruising speed of 9 knots: 60 litres/hour; maximum range covered without refuelling: 300 running hours or about 4,500 km at cruising speed.

A total of 19 industrial fishing vessels are operated by the 10 companies and several vessels are still under construction. Due to the rough weather, catches of industrial and artisanal units were very poor. Observations at Ngwenya fish landing in Mpulungu revealed only a small number of fresh catches, of which some kapenta (*Limnothrissa miodon* and *Stolothrissa tanganicae*) catches comprised an amazing amount of *Macrobrachium moorii* shrimps. Several bags with dried kapenta, mainly coming from Tanzania, were also landed.

With Mr. Blignaut and Mr. Bills of SAMAKI Fisheries Enterprises the following was discussed and agreed upon:

* Mr. R. Bills agreed to visit all ornamental fish traders around Lake Tanganyika and report on their activities in view of a regional Workshop on ornamental Fish Trade to be organized by the project (probably early next year). He suggested to come to the project headquarters in Bujumbura during mid-November 1992 to discuss first the exact terms of reference and the administrative procedures involved for this

mission. Two copies of FAO reports on ornamental fish trade were given to him for his info. He also requested if the project could obtain the official government statistics for the last 3-5 years on ornamental fish trade for Lake Tanganyika in Burundi, Tanzania and Zaire;

* Mr. C. Blignaut agreed to purchase on behalf of the project and to arrange for 600 litres of AVGAS 100-130 octane to be available at Kasaba Bay Airport before the end of September 1992, when the project will be carrying out an aerial frame survey of Lake Tanganyika. The AVGAS price was recently raised to about 250 K-n per litre. The 600 litre needed would cost the project around 800 US \$ (inclusive of transport).

3. CONCLUSIONS AND FOLLOW-UP

3.1 Projects imprest account in Mpulungu

* prepare checks for purchase of construction materials for rehabilitation of Mpulungu premises; * request timely next replenishment of imprest account Mpulungu; * due to high inflation, UNDP/FAO Representations should be instructed to execute replenishment authorizations, received during the second half of the month, at the beginning of the following month.

(Action : Project Coordinator)

3.2 Renovation of Mpulungu premises

* organize commencement of purchase of construction materials (inclusive of one submersible pump) and of rehabilitation works in Mpulungu and supervision mission by project's civil engineer.

(Action : Project Coordinator, Civil Engineer)

3.3 Historical data

* check on progress of preparation of reports on historical data.

(Action : Biostatistician)

3.4 Follow up of various administrative and practical matters

* send detailed lists of project equipment to be transferred to Kigoma and Mpulungu to the respective FAO representations in Dar and Lusaka to obtain customs clearance;
* follow up on flight clearance requests; * send details and technical specifications of high frequency radios to respective

FAOR/Fisheries Department Offices in order to obtain necessary clearances for installing radios;

- * follow up on progress of government clearance requests for several candidates for project posts in Tanzania and Zambia;

- * take action (pending authorization by FAO, Rome) regarding purchase of additional project vehicles for Tanzania, Zambia and Zaïre;

- * follow up matter of renovation of small research vessels Mpulungu (depending on decisions to be taken by Worldbank and Biodiversity projects);

- * take decision on repair works of house for limnologist in Mpulungu;

- * contact Mr. Blignaut (Samaki Fish. Ent. Mpulungu) on decision of Board of Directors of latter company if fishing vessel (see 2.4) will be sold (if yes, price ?) and check if he managed to obtain 600 litres of AVGAS fuel at Kasaba Bay Airport for planned aerial frame survey;

- * reply to Mr. R. Bills if proposed dates for his mission on ornamental fish trade are acceptable and try to obtain statistics on ornamental fish trade from Burundi, Tanzania and Zaire for the last 3-5 years.

(Action : Project Coordinator, Biostatistician, respective UNDP/FAO and Fisheries Department Offices)

Ann. 1 : Reports available at Fish. Department Mpulungu

1. Cayron, E. "Contribution à l'étude du lac Tanganyika et d'un de ses poissons endémiques, *Limnothrissa miodon*"; 1979; Mém. Ing. Agron., Univ. Cath. de Louvain, Facult des Sciences Agronomiques: 103p.
2. Coulter, G. W. "Notes on Lake Tanganyika Fishery. Fishing techniques in Lake Tanganyika - conclusions following a tour to the lake, 3rd - 19th February, 1968": D.O.F., Lake Tanganyika Research Unit; 1968; (internal rep., not published):6p.
3. KapaBa, C. K. "A study of the growth and breeding habits Of *Tilapia tanganicae* fed on single artificial diet in an enclosed area": D.O.F., Lake Tanganyika Research Unit; 1976; (internal rep., not published):11p.
4. Kendall, R. G. "The benthic gill net fishery of Lake Tanganyika, 1960-1972"; 1974; (mimeo): 65p.
5. Kendall, R. L. "Lake Tanganyika gill net trials": D.O.F., Lake Tanganyika Research Unit; 1974; (internal rep., not published): 17p.
6. MattheB, H. C. "The food an feeding habits of clupeid fish in Lake Tanganyika": D.O.F., Lake Tanganyika Research Unit; 1968; (draft report, not published):13p.
7. Matthes, H. "The food and feeding habits of juvenile Nile Perch in Lake Tanganyika": D.O.F., Lake Tanganyika Research Unit; 1968; (draft paper, not published):18p.
8. Matthes, H. "The food of juvenile perch in Lake Tanganyika": D.O.F., Lake Tanganyika Research Unit; 1968; (draft report, not published):1p.
9. Matthes, H. "Notes on the catching, handling and transport of live Nile Perch": D.O.F., Lake Tanganyika Research Unit; 1968; (internal report):6p.
10. Matthes, H. "Observation on the reproductive cycles of Lake Tanganyika clupeids": D.O.F., Lake Tanganyika Research Unit; 1986; (unfinished manuscript).
11. Matthes, H. "Preliminary investigations into the Biology of the Lake Tanganyika clupeidae": D.O.F., Lake Tanganyika Research Unit; 1968; (draft, not published): 9p.
12. Matthes, H. "Report on the investigation of Lake Tanganyika sardines": L.K.FRI; 1965; (internal report):6p.

13. Matthes, H. "Report on the catching, handling, keeping and transportation of Lake Tanganyika clupeids": D.O.F., Lake Tanganyika Research Unit; 1967; (internal rep.): 10p.
14. Matthes, H. "A study of some Lake Tanganyika shrimps with a view to their introduction in Lake Kariba": D.O.F., Lake Tanganyika Research Unit; 1968; (draft report, not published):9p.
15. Pearce, M. J. & Kabakwe, D. "Construction and operation of a liftnet/catamaran suitable for artisanal use on Lake Tanganyika": D.O.F.; 1990; Extension leaflet (not published), June 1990: 7p, 3 figs.
16. Pearce, M. J. "Fishing gear trials in the southern part of Lake Tanganyika": D.O.F.; 1988; Paper presented during Seminar on Government Research, National Council for Scientific Research (NCSR), Lusaka, Zambia: 6p (not published).
17. Pearce, M. J. "Report on the experimental liftnet fishing trials at Mpulungu (Lake Tanganyika) 1988-1989": D.O.F.; 1990; (internal report, not published), May 1990: 12p, 17tabs, 2app.
18. Pearce, M. J. "Some effects of exploitation of the pelagic fish community in the south of Lake Tanganyika". London, UK: Imperial college; 1992; Paper presented at the symposium on the impact on species changes in African Lakes, 23-31 March 1992, RRAG: 20p, 2 tabs, 5 figs.
19. Pearce, M. J. "Utilisation and Legislation pertaining to the Zambian sector of the Lake Tanganyika Basin (Full paper)": D.O.F., Lake Tanganyika Research Unit; 1991; Summary published in: Report of the first International Conference on the Conservation and Biodiversity of Lake Tanganyika, 11-13 March 1991, Faculté des Sciences, Université du Burundi, Bujumbura, Burundi.

GCP/RAF/271/FIN/TRAM/11

Report of Travel
to
Rome, Italy
(19-26.09.1992)

by

George Hanek
Coordinator

GCP/RAF/271/FIN.10

cc: Kato/Doeff, FIOA
Kapetsky, FIRI
Everett, FIP
Lindqvist/Mölsâ, Kuopio
Chrono
Diary:Hanek

1. INTRODUCTION

1.1 Objective

The objectives of this Mission were: (1) to meet with project's Scientific Coordinator, his deputy and with Project Operations Officer in order to decide on project equipment purchases and, subsequently, prepare the corresponding FPO'S; (2) to assist on discussions with AGL re: cost sharing with GEF 'Biodiversity project'; (3) prepare new Allotment Advice; and (4) propose budget for 1993.

1.2 Itinerary

	Arrival	Departure
Bujumbura		19.09.92
Brussels	19.09.92	20.09.92
Rome	20.09.92	25.09.92
Bujumbura	29.09.92	

1.3 Persons met

Dr. W. Krone, ADG a.i. FID
Dr. Y. Kato, Director, FIO
Mr. M. Doeff, SPOO, FIOA
Dr. C. Newton, Chief, FIDI
Mr. B.F. Dada, Director, FIP
Mr. G.V. Everett, SFPO
Mr. J. Fitzpatrick, Chief, FIIT
Mr. J.M.M. Turner, FIO, FIIT
Mr. D.G. James, SFIO, FIIU
Mr. E. Schwela, Chief, FIDX
Ms. S. Antonini, Equipment Officer, FIDX
Mr. M. Mancini, Accounting Clerk, FIDX
Ms. C. Rogan, Clerk, FIDX
Mr. L. Bellucci, Personnel Assistant, FIDX
Dr. E. Samaha, Director, GILD
Ms. J. Collins, FIDI
Mr. W. Klohn, AGLW

2. RESULTS

2.1 GEF 'Biodiversity Project' - an extensive and detailed discussions with AGL took place, lasting the whole day. There are a number of possibilities of coordinating various activities and sharing the infrastructures, equipment, boats, etc. A draft 'Note for the record, on this meeting is now attached as Appendix 1.

2.2 Equipment selection and purchases - were subject of detailed discussions with project scientific Coordinator and his Deputy. Finally, a large number of FPO was prepared and mailed. Approximately \$200,000 was thus committed; this equipment is for subcomponents I (=hydrodynamic modelling), 3 (=fish population and plankton biology) and 5 (=limnology and carbon energy); research equipment for field stations was also ordered. Dr. Kapetsky's concern re: the security of lake meteo stations and/or other equipment were reinforced; it was agreed that the supplier e.i. Aandreraa Instruments will take care of these concerns.

2.3 Allotment Advice - the existing complex system of AA's has been simplified. From now on the project will use only two AA's; one for FINNIDA funds and the other for AGFUND funds. With very effective assistance of Mr. Mancini (FIDX) it has been prepared and is now attached as Appendix 2.

2.4 Budget for 1993 - has been proposed and is now attached as Appendix 3.

2.5 Other matters

- * forms for project's Progress Reports were obtained;

- * initial list of participants for Limnothrissa meeting (Bujumbura, 25-28.11.1992) was proposed; it was agreed that project Scientific Coordinator and his Deputy will attend. It was similarly agreed that all efforts will be made to ensure Dr. Kapetsky's participation;

- * travel plans for the remainder of this year were made; first Hanek and coenen will carry out the first ever aerial frame survey of Lake Tanganyika fisheries (29.09.-03.10.92) using private plane and than Hanek will visits to Dar-es-salaam and Lusaka/Chilanga to complete Lake Tanganyika Fisheries Directory;

- * reports preparation schedule was discussed and agreed upon;

- * discussions concerning project's main and auxiliary vessels were held with FIIT. It was agreed that up to 3m/m consultancy may be needed to assist and/or supervize the main ' vessel construction in Bujumbura. It was also agreed that project should budget some \$25,000 for trawl whose specifications will be provided by FIIT. Mitson's report has not yet been finalized; it would appear, however, that he prefers Simrad EY500 to Biosonics acoustic equipment.

- * consultancy of Ms. J. Collins (FIDI) was discussed with Mr. Samaha (GIL) and, due to his alternative proposal, was further discussed with a number of FID officers,

including its ADG, so that Ms. Collins' consultancy could take place as scheduled.

- * EOD's of Plisnier, Kotilainen, Mannini and Kurki were agreed upon;
- * it was also agreed that a short visit of Mr. Mancini (FIDX) would be very useful;
- * a short meeting with Bonucci (LEG) was held; it was agreed that some \$1,200 needed to complete TCP/BDI/8954 (A) could be made through TCP/RAF/0058;
- * a follow up on two PR was made; and lastly
- * a large number of FAO reports and other documentation was pouched back to LTR.

3. CONCLUSIONS AND FOIJJOW-UP

- 3.1 Inform Lindqvist/Mölsä re: list of suppliers so that follow-up is ensured.
(Action:Project Coordinator)
- 3.2 Simplify project's AA's system.
(Action:Mancini and Executive assistant)
- 3.3 Prepare final list of participants for Limnothrissa meeting and telex details to SPOO asking for PTA'S.
(Action:Biostatistician and SPOO)
- 3.4 Rewrite the first 6-months Progress Report and prepare the second one using the new forms.
(Action:Project Coordinator)
- 3.5 Carry out the first ever aerial frame survey of Lake Tanganyika fisheries as originally planned.
(Action:Project Coordinator and Biostatistician)
- 3.6 Prepare duty travel to Dar-es-Salaam, Lusaka and Chilanga and request appropriate TA.
(Action:Project Coordinator)
- 3.7 Follow-up on consultancies of Ms. Collins and Mr. Mancini.
(Action:Project Coordinator and SPOO)
- 3.8 Prepare briefing for Plisnier.
(Action:Project Coordinator)
- 3.9 Follow-up on Gov't acceptance for Mannini and Kurki.
(Action: Project Coordinator)

Appendix I.

Note for the record GEF-LT Project

Discussions at FIO on 21 September 1992 with the following participants:

Mr. M. Doeff, Chief, FIO
Prof. O. Lindqvist, Rector, Kuopio University
Mr. Hannu Mölsä Ass. Prof., Kuopio University
Mr. G. Hanek, CTA, Project GCP/RAF/271/FIN (LTR)
Mr. W. Klohn, AGLW

regarding the situation in the field and coordination between GEF-LT and LTR, with the following findings:

Kuopio University interests and capacity

1. Kuopio has an interest and competence in both fisheries and pollution, and in training at all levels. They have complete up-to-date laboratory facilities.
2. Through LTR, Kuopio will be involved in research on the biological basis of pelagic fisheries and in all aspects of related training. They are not particularly interested in studies on coastline biodiversity, but they have competence in pollution chemistry and pollution source/pollution prevention studies.

Project premises

3. In the understanding that the IFIP project will close this year, it will be very advantageous for GEF-LT if it is given the voided premises in Bujumbura as headquarters. These are next to the LTR premises.

Boats

4. GEF-LT to use the main research vessel of LTR on a char-ter basis when required. Estimated cost: \$ 1,500/day, crew and operating costs included. Through joint planning, a number of activities could be carried out jointly by both projects on the same cruise.
5. Three awffiary boats needed, to be stationed in Bujumbura, Kigoma and Mpulungu, respectively. Two are under rehabilitation by LTR. GEF-LT to procure the third one in Bujumbura at a cost estimated at \$ 100,000, engine included. The three boats can be shared among the projects on an equitable basis.
6. Plank boats or canoes with outboard motor. Will cost about \$ 10,000 each, with 40 hp outboard motor included. For maintenance reasons, 50% more motors than boats to be procured.

National centers

7. National centers in Burundi and Tanzania will not need major refurbishing. GEF-LT should provide a complement of laboratory material for a total of some S 100,000 for Burundi, Tanzania and Zambia.

DP 9/3 RAF

UN 12/34

cc.: - Sombroek/Florin, AGLD
Scott/AGLW
Doeff, FIO
van Leeuwen, AGOE
Klohn chrono
Kapetsky, FIRI
Hanek, LTR

8.-REGIDESO monitors water quality on rivers flowing into the Lake in Burundi. The Malagarasi River is monitored through a laboratory established in Kigoma with Norwegian assistance.

9. The research center building in Uvira is decrepit and will be very expensive to repair (some \$300,000). LTR is considering construction of new facilities on the same premises.

10. GEF-LT is to develop a new facility related to an underwater reserve in Kasaba Bay, Zambia, some 3 hour by boat from Mpulungu where LTR laboratory is situated. The logistics of development and maintenance of this facility Will not be easy.

11. Work on the Lukuga River may be difficult for security reasons. Same reasons may prevent work in Burton Bay which is suspected to be of foremost importance to as a fish spawning ground.

Radio communications

12. VHF is not suitable. LTR has already seven HF units at a cost of \$5,000 each, These allow to communicate with the capitals of the countries. GEF-LT should buy similar units, as needed, and use the same frequency allocation.

Hydrodynamic modelling of the Lake

13. Water balance and wind data are essential. Some equipment will be needed to rehabilitate hydrological and meteorological observing stations. The potential for establishing new stations is limited for safekeeping of the material.

14. GEF-LT will add a water quality and pollution component to the Lake model. Kuopio can carry out this work.

Biodiversity studies

15. Advise on biodiversity studies, sites for underwater reserves and needed taxonomy work can be obtained best from the Congo Museum in Tervuren, Belgium, and the British Museum and from Dr. Frits Roest, IAC, Wageningen and Dr. George Coulter, Taupo, New Zealand.

River and Lake pollution baseline study

16. Requires laboratory techniques not available in the Lake region for various chemicals and heavy metals in water and biological samples. Kuopio can do this work; samples to be sent to Finland. Local training in sampling is required.

Training

17. DSA in Kigoma at \$40 is much lower than in Bujumbura (\$ 160).

18. It may not be practical to arrange for training in Uvira (visa requirements and related cost .

19. Kuopio can arrange for a wide diversity of relevant training activities in the Lake region. A three year training to MSc level with Kuopio in Finland will cost some \$50,000.

20. The budgeted training officer may not be fully employed scrutinize terms of reference.

Documentation

21. LTR is assembling documentation to which documents and databases produced by LTR will be added, using FAO standards. To consider GEF-LT adding to the same pool.



FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

ALLOTMENT ADVICE No. 0031450 01

Date: 28/09/1992
 Time: 10:47:15
 Doc. Id: PCM 0031450
 Page 1 of Pages 1

To: MR. G. HANEK

Budget 011282
 Entity GCP /RAF/271/FIN
 Country BURUNDI
 Budget
 Year 1992

UNDP RESIDENT REPRESENTATIVE
 BUJUMBURA
 BURUNDI

In accordance with instructions contained in the Manual for Office Holders you are authorized to commit funds and incur local currency expenditures up to the amount shown below. This Allotment Advice supersedes and cancels any previous one. This authorization lapses at the end of the year. All amounts are expressed in US DOLLARS

DOC LINE	ORG EXP	DESCRIPTION	SUB ALLOTMENT	INCR/ DECR	NEW SUB ALLOTMENT
0001	139	TEMPORARY ASSISTANCE			25,000
0002	415	DUTY TRAVL OTH COSTS			8,000
0003	350	TECH ADVRS SSN			25,000
0004	35K	TECH ADVRS CONTCTD			8,500
0005	602	RENTAL OF PREMISES			1,500
0006	625	VEHICLES O & M			10,000
0007	626	EQUIPMENT O & M			4,000
0008	729	OTHER COMMUNICATIONS			5,000
0009	799	OTHER FIELD SUPPLIES			35,000
0010	593	SHIPS PUR CONT			10,000
0011	599	OTH NEXPEND EQ CONT			390,000
0012	601	PREMISES IMPROVMNTS			200,000
0013	181	IN-SERVICE TRAINING			20,000

Totals: 0 0 741,500

Cash disbursements to be effected through Project Imprest Account

On all Disbursement Vouchers please quote PCM 0031450 and document line number to which disbursement refers. Please attach all supporting documentation.

REMARKS:

	User id	Name	Org	Date	SIGNATURE
Prepared:	039	Mancini, F. (FID)		24 09 1992	
Approved:					
					Budget and Finance Officer, FID
Authorized:	G99	Galletti D (AFF)		28 09 1992	

PROJECT MANAGER

PI - FAF/Fin

BUDGET REVISION: E		PROJECT SYMBOL		GCP/RAF/271/FIN		BUDGET ENTITY		01282		DATE: 24/09/1992							
DESCRIPTION		1991		1992		1993		1994		1995		TOTAL REV. BUDG.		TOTAL APP. BUDG.		CHANGES	
B.L.		WM	\$	WM	\$	WM	\$	WM	\$	WM	\$	WM	\$	WM	\$		\$
1100	INTER. EXPERT/CONS.																
01	Project Coordinator	1	14609	12	135000	12	135000	12	135000	12	135000	49	554609	52	554609		
02	Project Administrator											0	0		0		
03	Fisheries Statistician			8	82000	12	123000	12	129000	1	11000	33	345000		345000		
04	Limnologist			3	21000	12	95000	12	95000	8	63350	35	274350		274350		
05	Skipper											0	0		0		
06	APO Fish. Biologist (3)											0	0		0		
07	APO Remote Sensing (1)											0	0		0		
08	Biologist			3	18000	12	75000	7	50000			22	143000		143000		
51	Consultants											0	0		0		
01	Scientific Coordinator.			1	20000	3	60000	3	60000	6	92500	13	232500		252500		
02	Consultants (other)	3	22950	7	126000	16	260000	16	202000	3	60000	45	670950		779951		
	SUBTOTAL COMPONENT	4	37559	34	402000	67	748000	62	671000	30	361850	197	2220409	52	2349410		-129001
1300	ADMINISTRATIVE SUPPORT																
1700	NAT. EXPERT/CONS.		6577		25000		50000		50000		20000	0	151577		166577		-15000
01	National Civil Engineer			11	25000	12	25000	12	25000			35	75000		72000		3000
02	National Consultant			5	5000	10	10000	5	5000			20	20000		22000		-2000
	PERSONNEL TOTAL	4	44136	50	457000	89	833000	79	751000	30	381850	252	2466986		2609987		-143001
2000	DUTY TRAVEL																
3000	CONTRACT		10451		50000		75000		75000		25000		235451		260450		-24999
4000	GEN. OPERAT. EXP.				500000		220000		100000		20000		720000		440000		280000
5000	SUPPLIES		509		50000		100000		100000		20000		270509		320508		-49999
6000	EQUIPMENT				35000		100000		50000		20000		205000		295000		-90000
7000	IMPROV. OF PREMISES				500000		100000		60000				660000		360000		300000
8000	FELL/TRAINING				250000		56000		50000				306000		306000		0
					20000		50000		50000		30000		120000		196305		-76305
													30000		30000		30000
	SUB TOTAL		55096		1862000		1534000		1086000		476850		5013946		4788250		225696
9100	SUPPORT COST																
9600	UNALLOCATED BALANCE		7163		242060		199420		141180		61951		651814		622473		29341
											189666		165666		424702		-424702
													0		169666		169666
													0				
	PROJECT TOTAL		62259		2104060		1733420		1227180		708507		5835426		5835425		1

GCP/RAF/271/FIN/TRAM/12

Report of Travel
on
Aerial Frame Survey of
Lake Tanganyika Fisheries
(29.09-03.10.1992)
by
George Hanek and Eric J. Coenen

GCP/RAF/271/FIN.10

cc: Kato/Doeff, FIOA
Kapetsky, FIRI
Everett, FIP
Lindqvist/Mölsä, Kuopio
FAOR/Burundi
FAOR/Tanzania
FAOR/Zaire
FAOR/Zambia
Chrono
Trams
Diary:Hanek

GCP/RAF/271/FIN

October, 1992

1. INTRODUCTION

1.1 Objective

The objectives of this mission were: (1) to video-tape the

entire

Shoalline of Lake Tanganyika and to count all other fishing craft at large; (2) to make contacts with project counterparts in Kigoma, Mpulungu and Kalemie and (3) to determine the feasibility to hold the next Joint Meeting of Project Committees in Kasaba Bay, Zambia.

1.2 Itinerary

	Arrival	Departure
Bujumbura		29.09.92
Kigoma	29.09.92	30.09.92
Kasaba Bay	30.09.92	01.10.92
Mpulungu	01.10.92	01.10.92
Kasaba Bay	01.10.92	02.10.92
Kalemie	02.10.92	03.10.92
Bujumbura	03.10.92	

1.3 Persons met

Mr. G. Bowman, CTA, URT/066/NET, Kigoma
Mr. K.I. Katonda, Director, TAFIRI, Kigoma
Mr. M. Pearce, DOF, Mpulungu
Mr. H. Phiri, DOF, Mpulungu
Mr. C. Blignaut, Samaki Fisheries Ltd., Mpulungu
Mr. R. Bills, Samaki Fisheries Ltd., Mpulungu
Mr. V. Page, Manager, Kasaba Bay Lodge, Kasaba Bay
Mr. D. Detsimas, Kalemie

2. RESULTS

2.1 Aerial Frame Survey of Lake Tanganyika Fisheries

2.1.1 Introduction

This survey has been proposed early this year by the senior author of this report; it was subsequently approved by both Project Operations officer and Project Subject Matter Officer. A test flight of some two hours duration took place in June; it showed that it is quite feasible to do it. Consequently, all required video-equipment had been ordered and authorities of all four participating countries were approached for necessary permissions to both overfly their

territories and videotape their respective Shoallines of Lake Tanganyika. Surprisingly, **all** required permissions were obtained... although the one from Tanzania came one day late.

2.1.2 Material and Methods

Plane - single engine 6-seater plane (PA-32-300 Cherokee.6.300 HP 540 in3) from Malek Aviation;

Video equipment - Sony CCD-V800E Handycam HI8 Camrecorder with all options, **a** number of spare batteries, cassettes and external stereo microphone;

Charts and Maps - 1:50,000 charts of the entire Shoalline were on board but those of 1:250,000 proved to be the ones most useful;

Crew and Methodology - Marc Lekeu from Malek Aviation was the pilot; Eric Coenen (EC) was seated on port side in the last row with his seat facing the plane door which was removed to facilitate the filming; and George Hanek (GH) was in the middle, using remote microphone recording positions from plane's GPS (Geographical Positionning System), recording time and canoes and other fishing craft in the open water and making general comments on type of Shoalline, etc. As apparent from 2.1.3, all efforts were made to fly early in the mornings to both record all returning fishing craft and to avoid dangerous turbulence and storms. All flying was done at 600 to 700 ft level and from 90 to 110 miles/hour, very close above Shoalline allowing to video-record the entire beach **as** well as some 150-200 m of Lake's portion.

2.1.3 Results/actual itinerary

	<u>ARRIVAL</u>	<u>DEPARTURE</u>
Bujumbura		29.09.92 at 0817
Kigoma	29.09.92 at 0945	30.09.92 at 0612
Kasaba Bay	30.09.92 at 0948	02.10.92 at 0817
Kalemie	02.10.92 at 1051	03.10.92 at 0708
Bujumbura	03.10.92 at 0925	

NOTE: on 01.10.92 GH and EC left Kasaba Bay by boat to Mpulungu (departure at 0815, return at 1845) to obtain AVGAS.

FLYING AND FILMING DURATION

	<u>FLYING TIME</u>	<u>FILMING TIME</u>
DAY 1: Bujumbura-Kigoma	88 minutes	77 minutes
DAY 2: Kigoma-Kasaba Bay	216 minutes	155 minutes
DAY 4: Kasaba Bay-Kalemie	154 minutes	138 minutes
DAY 5: Kalemie-Bujumbura	137 minutes	95 minutes
TOTALS	9 hr 555 min	7 hr 45 min

Discrepancies between 'flying' and 'filming' times are due to: (1) some 5-10 minutes between take-off and start of filming; (2) strong turbulence on DAY 2; (3) dangerous storm on DAY 4, where we had to escape it, encircle it, luckily !!! and (4) some 3-5 minutes between stop filming and landing.

Extremely valuable information has been obtained; it is being analysed and it will be presented soon as one of the project's Technical Documents. Precision of aerial counts and observations will be checked by comparison with data from a ground frame survey executed in the burundian part of Lake Tanganyika during the same period as the aerial survey.

2.2 Situation at project stations in Kigoma, Mpulungu and Kalemie

in Kigoma - we met with TAFIRI Director and his staff. Project Biostatistician discussed various aspects dealing with the treatment of historical data, which is advancing surprisingly well. Other matters were dealt with, particularly those affecting the installation of project radios and other equipment in Kigoma and our upcoming symposium in Bujumbura. It was stressed that unless TAFIRI HQ finally starts fulfilling its obligations project's programme in Tanzania will be delayed.

in Mpulungu - since Officer-in-Charge of DOF/Mpulungu did not respect the earlier agreed upon arrangement, i.e. transport AVGAZ from Mpulungu to Kasaba Bay, we had to rent a boat and transport it ourselves. Consequently, we lost one day. On the other hand, this oversight gave us the opportunity to inspect our rehabilitation of forts at DOF/Mpulungu and make a number of other arrangements there.

in Kalemie - we met with Mr. D. Detsimas who is continuing to be very helpful to us there. We made arrangements with him to operate project's HF radio and to arrange for daily collection of catch/effort statistics and other data of Kalemie's industrial fishing fleet. This way the project is making considerable savings as it is no longer necessary to rent a house in Kalemie, send a new Landcruiser there and/or incur other unnecessary expenses.

2.3 Kasaba Bay Lodge

one of the decisions of the First Joint Meeting of project Committees was to hold the next meeting in Kasaba Bay. Our stop-over there gave us the first opportunity to visit the place.

Kasaba Bay Lodge is situated in Kasaba Bay, exactly 41 miles (66km) by boat from Mpulungu. It took us some 2 hours and 40 minutes to get to Mpulungu and considerably more, due to engine problems, etc. to get back. Just next to the Lodge

there is a small airport, which at present is served by Zambia Airways once a week. Kasaba Bay Lodge is owned by Kitwe based Circuit Safaris Ltd., (Mr. T.J. Kasonso is operations Manager, Telex: ZA 51105; Fax: 216715; Tel.: 216873). There are 14 bungalow-like rooms with 37 beds. There is also a large annexe which has 6 rooms (12 beds), a bar and a meeting room, and finally, a large pool and bar. This lodge also operates several boats, both pleasure (for fishing and diving) and transport, charging some \$ 50/day/boat + \$0.50/litre of fuel as well as a 9-hole golf course, which due to an extreme dry season is not in very good shape.

Actual room rates (double occupancy) are \$55/person/night with breakfast and dinner included subject to some reductions if larger groups are involved.

3. CONCLUSIONS AND FOLLOW-UP

3.1 Complete Technical Document on Aerial Frame Survey of Lake Tanganyika Fisheries.
(Action:Project Coordinator and Biostatistician)

3.2 Arrange for necessary permits for HF radios during upcoming duty travel to Dar and Lusaka stressing the need for more effective cooperation from both TAFIRI/Tanzania and DOF/Zambia.
(Action:Project Coordinator)

3.3 Arrange for HF radio transport and installation in Kalemie.
(Action:Project Coordinator)

3.4 Prepare statistical forms for Kalemie's industrial fishing fleet.
(Action:Biostatistician)

3.5 Contact Mr. T.J. Kasonso, Operations Manager, Circuit safari Ltd., in Kitwe re: terms and conditions to organize project's Second Joint Meeting in Kasaba Bay in October, 1993.
(Action: Project Coordinator)

GCP/RAF/271/FIN/TRAM/13

Report of Travel
to

Dar-es-salaam and Kunduchi, Tanzania
(25-29.10.92)

Lusaka and Chilanga, Zambia
(30.10. - 06.11.92)

by

George Hanek
Project Coordinator

GCP/RAF/271/FIN.10

cc: Krone/Gonzalez Alberdi, FI
Kato/Doeff, FIOA
Kapetsky, FIRI
Everett, FIP
Fitzpatrick/Turner, FIIT
FAOR/Tanzania
FAOR/Zambia
Lindqvist/Mölsä, Kuopio
Plisnier, Mpulungu
Chrono
Diary:Hanek

1. INTRODUCTION

1.1 Objective

The objectives of this mission were: in Dar-es-Salaam and Kunduchi - (1) to obtain data for Tanzania section of Lake Tanganyika Fisheries Directory; (2) to advance a number of pending administrative matters; (3) to attend meeting on ornamental fish trade; and (4) to brief Amb. Karanko on project progress; in Lusaka and Chilanga - (1) to obtain data for Zambia section of Lake Tanganyika Fisheries Directory; (2) to advance a number of pending administrative matters; and (3) to brief Amb. Rantakari on project progress.

1.2 Itinerary

	Arrival	Departure
Bujumbura		25.10.92
Dar-es-Salaam	25.10.92	29.10.92
Nairobi	29.10.92	30.10.92
Lusaka	30.10.92	06.11.92
Bujumbura	06.11.92	

1.3 Persons met

in Dar-es Salaam and Kunduchi

Mr. W.A.M. Sichone, Director of Fisheries
Mr. T.W. Maembe, Chief Fisheries officer
Mr. B.S.M. Moreni, Economist, DOF
Ms. M. Mushi, Officer, Research Unit, DOF
Prof. P. Bwathonde, Director General, TAFIRI
Mr. B.A. Chogero, Principal Personnel & Admin Officer, TAFIRI
Mr. D.A. Ngogo, Director of Research and Planning, Board of External Trade
Mr. F.G. Kibodya, Marketing Research officer, Board of External Trade
Mr. T. Asfaw, CTA, UNCTAD/GATT
Mr. R.W. Fuller, FAO Representative
Mr. J. Yomnazi, Programme Officer, FAO/Tanzania
Ms. J. Blackhouse, Admin Officer, FAO/Tanzania
Mr. K. Karanko, Ambassador of Finland to Tanzania and Burundi

in Lusaka and Chilanga

Mr. G.H. Mudenda, Director of Fisheries
Dr. R. Mubamba, Chief Fisheries Research officer
Mr. C. Memon, Senior Accountant, Zambia/World Bank

Fisheries Development Project

Dr. J.J. de Castro, FAO Representative a.i.
Ms. N. Springer, Programme Officer, FAO/Zambia
Mr. B. Thomsen, APO-Programme Officer, FAO/Zambia
Mr. P. van Zwieten, Fishery Biologist, DOF/Nchelenge
Ms. N. Aarnink, Rural Sociologist, DOF/Nchelenge
Mr. I. Rantakari, Ambassador of Finland to Zambia

2. RESULTS

2.1 In Tanzania

Lake Tanganyika Fisheries Directory - all required information on Tanzania fisheries sector has been obtained, thanks mainly to effective cooperation of Ms. Mushi and Messrs. Maembe and Moreni.

Administrative matters - of the projects were treated as follows: (1) Gov't clearance for Kurki and Mannini was obtained; (2) licence fees for project's HF radios were paid up and permission to import them obtained (Appendix 1); and (3) transport of new project car from Dar-es-salaam to Lusaka has been arranged.

Meeting on ornamental fish trade - during my stay in Dar, Tanzanials Board of External Trade organized this meeting. As this is of interest to our project, DOF made all necessary arrangements in order to allow me to attend as observer. Meeting itself was a good one. Results of a recent study on the status of aquarium fish industry in Tanzania were presented and several very useful contacts were made.

Before leaving Tanzania I have, in company of FAO Representative to Tanzania, briefed the Ambassador of Finland to Tanzania and Burundi on project's results. Mr. Karanko indicated that despite economic difficulties in Finland and resulting FINNIDA cost cutting measures our project's funding should not be affected during its first phase.

2.2 In Zambia

Lake Tanganyika Fisheries Directory - all required data on Zambia fisheries sector have been collected thanks to effective assistance of Dr. Mubamba. Detailed instructions were sent to Plisnier so that he can complete the relevant portions for Mpulungu based companies.

Administrative matters - of the project were treated as follows: (1) replenishment of our Mpulungu imprest has been made; (2) technical details on project's HF radios were provided thus enabling to complete the required application forms; (3) arrangements to have project's car licensed, insured and transported to Mpulungu have been made; and (4) detailed

instructions for Messrs. Plisnier and Varayannis re: rehabilitation of DOF/Mpulungu premises and HF radios installation have been prepared and sent to Mpulungu.

Rehabilitation of R/V Silver Shoal - has been finally resolved. Both the Director of Fisheries and the Senior Accountant of Zambia/World Bank Fisheries Development Project have agreed to provide this project with brand new diesel in-board engine. This way we will be able to rehabilitate R/V Silver Shoal within the budget. All arrangements to have this new diesel engine transported to Mpulungu and subsequently to Bujumbura, together with R/V Silver Shoal, were also made.

LTR Newsletter - preparation of several articles, by our Zambian colleagues, was proposed. It was agreed that (1) Dr. Mubamba visits Ndola based canneries for two days and prepares a short article on new canned products which use Lake Tanganyika fishes e.i. Stolothrissa tanganicae and Lates stappersii respectively; (2) Mr. Lupikisha prepares graphic presentation (=Harvard Graphics) of 1992 landings of Mpulungu based industrial fisheries fleet; and (3) someone from Mpulungu should be identified to write a 'lighter short story' on 'spirit of Lake Tanganyika'. All these must reach LTR HQ not later than end February 1993.

As in Tanzania, I have requested FAO Representation in Lusaka to arrange meeting with the Ambassador of Finland to Zambia so that he can be fully briefed on project status and achievements. Accompanied by FAO Programme officer, I have briefed Mr. Rantakari extensively; it should be stated here that he is very interested in our project. He has expressed interest to visit Mpulungu, together with the Minister of Agriculture, Food and Fisheries, once our rehabilitation efforts there are completed.

3. CONCLUSIONS AND FOLLOW-UP

3.1 Finalize Lake Tanganyika Fisheries Directory as project's TD/04.

(Action:Project Coordinator)

3.2 Maintain contacts with officials of Tanzania Board of External Trade and provide Mr. Roger Bills (= LTR 'associate' expert on ornamental fish trade) with all documentation on Dar meeting on ornamental fish trade.

(Action:Project Coordinator)

3.3 Inform FIO re: recent meetings with Ambassadors Karanko and Rantakari.

(Action:Project Coordinator)

- 3.4 Secure the necessary permissions to allow for rehabilitation of R/V Silver Shoal in Bujumbura harbour.
(Action:Project Coordinator)
- 3.5 Follow-up on contributions for LTR Newsletter from Zambia.
(Action: Project Coordinator)

Telegraphic Address:

OFFICE OF THE DIRECTOR GENERAL

Telex:

P. O. Box 9070

Telephone:

DAR ES SALAAM

Your Ref:

Our Ref: DF 4672/TAFRI27/10/1992

DIRECTOR GENERAL
 TANZANIA FISHERIES RESEARCH INSTITUTE
 P. O. Box 9750
 DAR-ES-SALAAM

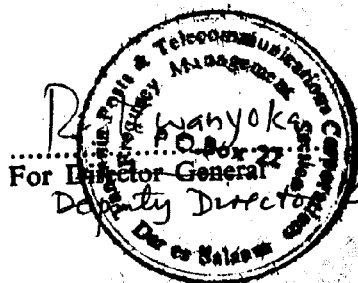
Dear Sir/Madam,

RE: RADIO COMMUNICATION LICENCE FEES — HF ADDITIONAL

This is to inform you that your application for radio communication licence has been approved. Licence fees for each radio equipment is TShs 36,529/50. Since you intend to establish 2 base (fixed) stations, and make use of — mobiles and — portables the fees will be TShs 36,529/50 x 2; i.e. TShs 73,059/— in total.

Licence fees can be paid at the nearest Post Office convenient to you and a copy of the receipt forwarded to the Corporation's Frequency Management Office for issue of the licences.

You will be notified of your operating frequency/frequencies upon receipt of your Miscellaneous Receipt confirming payment of licence fees.



For Director General
 Deputy Director General/Telecomms

GCP/RAF/271/FIN/TRAM/14

Report of Travel
to

Rome
(04-09.10.92)

Bujumbura, Burundi
(11-17.10.92)

Lusaka, Zambia
(17-25.10.92)

Mpulungu, Zambia
(26.10.92)

by

Pierre-Denis Plisnier
Limnologist

GCP/RAF/271/FIN. 10

cc: KATO / DOEFF, FIO
HANEK (GCP/RAF/271/FIN)
COENEN (GCP/RAF/271/FIN)
KAPETSKY, FIRI
SCHWELA, FIDX
FAOR/ ZAMBIA
FAOR/BURUNDI
LINDQUIST / MOLSA, KUOPIO Finland
Chrono
Diary: Plisnier

1. INTRODUCTION

1.1 Objective

The objective of this travel was to reach my duty station Mpulungu (Zambia) as Limnologist for the Project GCP/RAF/271/FIN. The travel started with briefing at FAO (ROME) followed by briefing at the Project's headquarter (BUJUMBURA) before reaching the FAO rep. in ZAMBIA (LUSAKA) and finally reaching MPULUNGU on the south shore of Lake Tanganyika.

1.2 Itinerary

	Arrival	Departure
Brussels		04.10.92
Rome	04.10.92	09.10.92
Brussels	09.10.92	10.10.92
Bujumbura	11.10.92	17.10.92
Lusaka	17.10.92	25.10.92
Kasama	25.10.92	26.10.92
Mpulungu		26.10.92

1.3 Persons met

In Rome:

Ms S. Antonini, Equipment Clerk
Mr P. Belanga, Personnel Officer FIDX,
Mr L. Bellucci, Personnel Assistant
Ms D. Blessich, Project Operation Officer
Mr P. Del Pinto, Budget Assistant
Ms G. Di Stephano, Personnel Clerk
Ms G. Guidugli, Financial Service Division
Mr Y. Kato, Director, Operation Service
Ms H. Klein, Personnel Clerk
Mr P. Lanni, Personnel Assistant
Mr M. Mancini, Accounting Clerk
Mr M. Mirfi, Accounting Clerk
Ms U. Schutt, Clerk-Stenographer
Mrs B. Tuili, Personnel Clerk
Mr R. Welcomme, Chief FIRI

In Bujumbura:

Mr G. Hanek, Project coordinator, GCP/RAF/271/FIN

Mr E. Coenen, Biostatistician, GCP/RAF/271/FIN
Mr. P. Mannini, Fisheries biologist, GCP/RAF/271/FIN
Ms C. Karayuba, Administration Assistant, GCP/RAF/271/FIN

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In Lusaka and Chilanga:

Dr. J.J. de Castro, FAO Representative a.i.
Ms N. Springer, Programme Officer, FAO/Zambia
Mr B. Thomsen, APO-Programme Officer, FAO/Zambia
Ms V. Best, FAO Administrative Officer
Mr J. Lupikisha, Fisheries Research Officer, DOF
Mr R. Mubamba, Chief of Research, DOF

Mr H.G. Mudenda, Director of Fisheries, Chilanga, DOF

In Mpulungu and Mbala:

Mr R. Bills, Biologist, Samaki Fisheries Ent.
Mr C. Blignaut, Manager, Samaki Fisheries Ent.
Mr D. Kabakwe, Fisheries Development Officer, O.I.C. of
Mpulungu Station
Mr Ch. Ndonga, Provincial Fisheries Development Officer
Mr M. Pearce, Fisheries Research Officer
Mr H. Phiri, Fisheries Research Officer
Mr A. Sharraf, Project Contractor

2. RESULTS

2.1 In Rome

Briefings have been provided by the persons named above. It concerned mainly the followings matters:

- project GCP/ RAF/271/FIN
- operations
- research program
- budget
- finances
- imprest account
- health
- travel
- library
- communications lines

2.2 In Bujumbura

After visiting the headquarter of the Project GCP/RAF/271/FIN in Bujumbura and meeting the team actually in place, briefing has been provided by Dr. Hanek, Coordinator of the project and Mr. E.Coenen, Biostatistician, concerning different aspects of the project. Projects matters have been dealt with (program, procedures...). Relevant files concerning

the Project have been read. Library has been visited and relevant articles copied for use in Mpulungu.

A program of activities for the first month has been set up with Dr. Hanek.

I participated to the "World day for alimentation" on October 16. It involved 4 Projects linked with Fisheries of Aquaculture. Several officials and researchers have been met during this event. Other Project involved in fisheries or lake researches have been briefly visited (Belgium/CEPGL, IFIP Project, ...).

2.3 In Lusaka

FAO rep. has been visited and administrative matters have been settled to obtain ID card and Zambian driving licence.

The Department of Fisheries at Chilanga has been visited to meet the Director: Dr Mudenda and the Director of Researches: Dr Mubamba. The library of the Department has been visited and useful document obtained.

UNDP office in Lusaka has been visited to get information on the office dealing with the replenishment of Project imprest account in Mpulungu as asked. It seems like this is going to be done through UNDP (Ms OKEYO D., Administrative/Finance Officer) but it is not yet clear indeed.

Shipment clearance is being arranged with FAOR assistance and A.M.I..

2.4 In Mpulungu

Travel to Mpulungu (1200 km) took two days by road (a pick up and driver from FAO/Zambia have been made available). Mpulungu was reached on October 26. Mister D. Kabakwe and H.Phifi of the Department of Fisheries in Mpulungu have been met as well as other members of the Department of Fisheries (34 people in Mpulungu station).

After provisional installation in a school, work has started by visiting fisheries companies with counterpart H.Phiri to participate to the address directory for the Mpulungu area. People are very polite and friendly in this place, which is quite encouraging.

Inventory and testing of the material of the Project has started. There is not much order at the present time and things are sometimes difficult to find but microscopes and binoculars can be found behind oil cans and petrol lamp...

Visiting the boat "Kapata" (old fibber glass boat going to be renovated entirely on World Bank funds), I could find some useful limnological equipment.

Mr Sharrif, contractor of the Project in charge of the rebuilding of the station has been met and works visited. The slow speed of the work is a little bit disappointing.

Mr Sharrif being on leave for Lusaka, I've supervised the different works being done: carpentry, electricity, painting, brick raising and others. Some tools in very bad shape have been repaired. To save water, taps have been improved etc ... Those things take some times but are necessary in order to reach the state of an efficient research station.

Numerous talks have been held with Mr Pearce (stationed in Mpulungu since 13 years) in order to find the useful data on meteorology, limnology, gill nets experiments.... Some data seem to have been already introduced on Mr Pearce's computer. They will be transferred on the computers of the Project as soon as those reach the station.

In order to visit two fisheries situated on the lake near Mpulungu and Nsumbu for the address directory on lake activities, a drum has been bought to keep the fuel necessary to make the trip by boat to those place. An inventory of the equipment at Nsumbu will be done at this occasion. The airport at Kasaba Bay will be visited too to get hopefully useful meteorological data's. Those data's are quite spread up in many place and every effort will be done to gather them.

3. CONCLUSIONS AND FOLLOW-UP

Duty station of Mpulungu has been reached and research activities may start as soon as the equipment arrives.

The only problem actually encountered is the extremely slow speed of the refitting of the station (the foundation of the new offices are not yet finished for example): problem of transportation of material, price raising fast in Zambia and work being done by the contractor should ideally be discussed during my visit in Bujumbura from the 25 to the 28 of November in order to find solution. (Action: Sharrif, Varyanis, Hanck).

Beside that, a majority of interested people will be available for the research activities in Mpulungu and Chilanga and this is quite encouraging.

First work program for the first month is on the way to be completed and results will be brought up to Bujumbura end of November.

GCP/RAF/271/FIN/TRAM/15

Report of Appointment Travel

to

Bujumbura, Burundi

through

Rome, Italy
(13-23.10.92)

by

Pekka Kotilainen
APO - Fisheries Biologist

GCP/RAF/271/FIN.10

CC: Bitar, DDFR
Kato/Doeff, FIO
Kapetsky, FIRI Lindqvist/Mölsä, Kuopio
Chrono
Trams
Diary: Kotilainen

GCP/RAF/271/FIN

November, 1992

1. INTRODUCTION

1.1 Objective

The objectives of the appointment travel were: (1) in FAO Headquarters Rome, to meet personnel of DDFR, responsible of recruitment; administrative personnel of FIDX and technical personnel of FIRI; to receive a short introduction on activities of FAO headquarters and Fisheries Department and on administrative and technical formalities; to be briefed on FAO staff member entitlements and duties; and (2) in Bujumbura, to meet FAO and UNDP Representatives; to comply with all personal administrative formalities; to be briefed on the activities of project GCP/RAF/271/FIN; and to meet the personnel of other regional and national projects, cooperating closely with GCP/RAF/271/FIN.

1.2 Itinerary

	Arrival	Departure
Helsinki		13.10.92
Rome	13.10.92	23.10.92
Bujumbura	24.10.92	

1.3 Persons met

in Rome

Mrs. L. Zappalenti, Recruitment Officer DDFR
Mr. A. Kobakiwal, CPO, Asia and Pacific Service AGO
Mrs. I. Prinee-Pereiballi, AGRIS-CARIS Coordinating Centre
Mr. T.E.C. Elliot, Language Training, Personnel Division
Mrs. D. Fonzo-Blessich, POO, FIO
Mr. L. Belucci, Personnel Officer, FIDX
Mr. R. L. Welcomme, Chief, FIRI
Mr. M. J. Mann, Senior Project Operations Officer, FIO
Mr. Y. Kato, Director, FIO
Mrs. G. Guidugli, Officer, Financial Services Division
Mr. M. Doeff, Senior Project Operations Officer, FIO
Mr. W. Krone, ADG, FI
Mrs. J. Collins, Librarian, Fisheries Branch Library

in Bujumbura

Mr. G. Hanek, Project Coordinator, GCP/RAF/271/FIN
Mr. E. Coenen, Fishery Biostatistician, GCP/RAF/271/FIN,
Ms. T. Sibomana, Administrative Officer, FAO
Mr. M. Sow, Assistance Representative of Administration and Finance, UNDP
Mr. L. Risch, Project Manager, Project Belgium/CEPGL
Mr. M. Bellemans, FAO Consultant, IFIP FAO/UNDP Project RAF/87/099
Mr. A. Vandellannoote, Limnologist, Project Belgium/CEPGL,
Mr. L. De Vos, Hydrobiologist, Project Belgium/CEPGL

2. RESULTS

2.1 General briefing in FAO HO, Rome

The first task of the briefing in Rome was to check and update my personal files. The general part of the briefing (1415.10.92) consisted of an introduction on FAO activities; entitlements and duties of APOS, when entering on duty; the reporting system to DDFR during assignment, etc.

A briefing on the work done in the FAO Documentation Centre and the David Lubin Memorial Library and their infrastructures were given by the library personnel.

2.2 Briefing in Fisheries Department of FAO HO, Rome

Mrs. D. Fonzo-Blessich explained me the organizational structure of the Fisheries Department and listed the officers related to the project.

The appointment with the Personnel Officer, Mr. L. Belucci, consisted of making a week schedule of appointments with HQ Personnel involved in the project's technical aspects, its administration, financial matters, etc.; and of finalizing the administrative matters needed before the departure to the duty station.

Dr. Welcomme and Mr. Mann both welcomed me to FAO and told me about their experiences on Lake Tanganyika in the early 70's (Project BDI/70/508).

Mr. Kato, the Director FIO, also welcomed me to join the FAO staff.

I also met Mrs. Collins, who gave me guidance on collecting FAO reports and showed the possibilities of using the Fisheries Branch Library in the future. We also discussed their close cooperation with the personnel of the Lake Tanganyika Project concerning the establishment of a Documentation Centre in Bujumbura.

Together with Ms. Guidugli all financial questions were solved, including the salary calculations and allotment instructions.

The appointment with M. Doeff was informative, dealing with operational matters of the project and with circumstances normally met on duty stations.

Mr. Krone, Assistant Director-General, welcomed me as so many other personnel of FI.

2.3 Briefing in Bujumbura

Upon arrival, I was welcomed by Dr. G. Hanek, Coordinator of the Project, and received a short introduction of the Project's activities.

During the first few weeks, I have been briefed by E. Coenen, who firstly explained me the administrative matters of the FAOR and UNDP/RR offices. A short visit to both offices, regarding the establishment of personal files and briefing on security, etc. took place on the second day after arrival.

I also received detailed information on the project's activities, its administration and about the newly established Documentation Centre in the Project's HQ.

Part of the briefing included the introduction to the personnel of the Regional IFIP project for 'Inland Fisheries Planning Development, and Management in Eastern/Central/Southern Africa' and project Belgium/CEPGL.

2.4 Initial duties performed

I first got acquainted with the activities of the Lake Tanganyika Research Project by reading a number of project's and other reports.

Together with E. Coenen, we started the analysis of the results of the aerial frame survey of lake Tanganyika, done by G. Hanek and E. Coenen last October.

3. **CONCLUSIONS AND FOLLOW-UP**

- 3.1 Prepare the initial 3 months Arrival Report as required by DDFR.
(Action: APO-Fisheries Biologist)